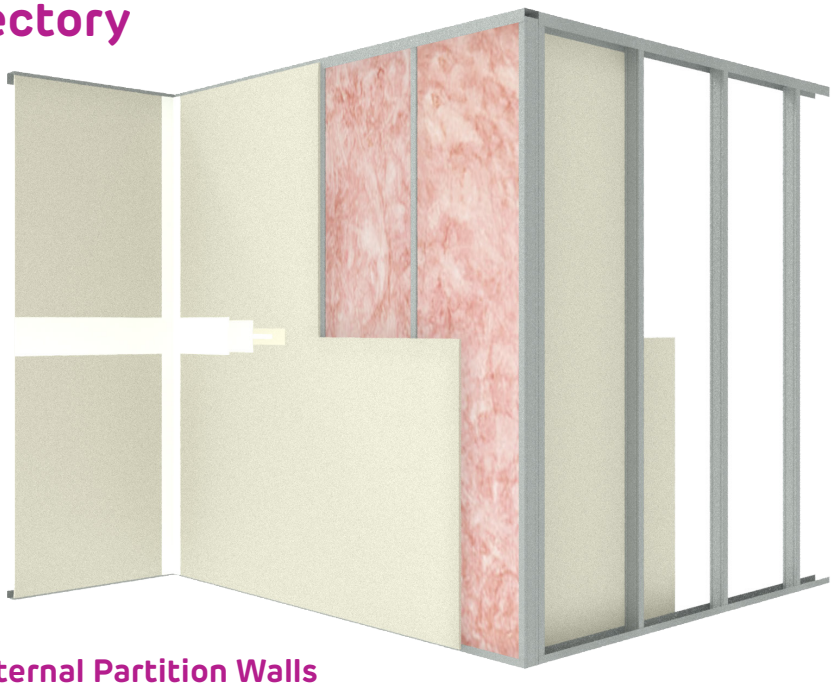
3.1 Internal Steel Framed Partition Walls

Internal steel framed walls are used in commercial and high-rise applications such as office buildings and apartment blocks. They are light weight, quick to install, and the components are easy to deliver on site.

This section includes systems, installation instructions and construction details for general and fire rated internal steel stud walls.

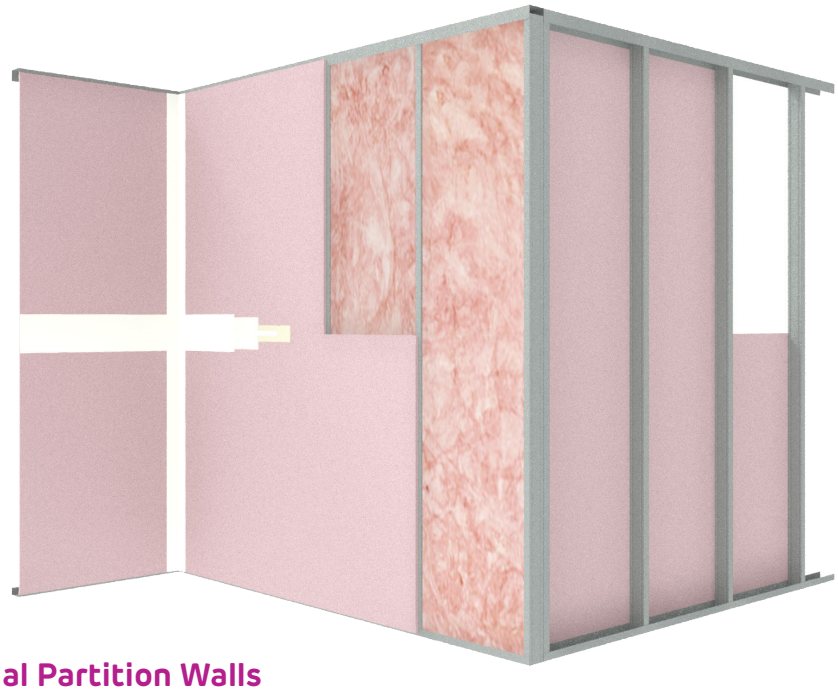
System Directory



Non-fire Rated Internal Partition Walls

System	Side 1	Side 2	Frame	FRL	Acoustics[1]	
					Rw	Rw+Ctr
SSW1	1 x 10mm **masta**shield	-	Stud	-		
SSW10	1 x 10mm **masta**shield	1 x 10mm **masta**shield	Stud	-	40	31
SSW11	1 x 10mm **masta**shield	2 x 10mm **masta**shield	Stud	-	45	35
SSW12	2 x 10mm **masta**shield	2 x 10mm **masta**shield	Stud	-	50	40
SSW210	1 x 10mm **sound**shield	1 x 10mm **sound**shield	Stud	-	43	34
SSW211	1 x 10mm **sound**shield	2 x 10mm **sound**shield	Stud	-	49	39
SSW212	2 x 10mm **sound**shield	2 x 10mm **sound**shield	Stud	-	53	44
SSW4	1 x 13mm **masta**shield	-	Stud	-	29	25
SSW15	1 x 13mm **masta**shield	1 x 13mm **masta**shield	Stud	-	43	33
SSW16	1 x 13mm **masta**shield	2 x 13mm **masta**shield	Stud	-	49	39
SSW17	2 x 13mm **masta**shield	2 x 13mm **masta**shield	Stud	-	53	44
SSW215	1 x 13mm **sound**shield	1 x 13mm **sound**shield	Stud	-	52	44
SSW216	1 x 13mm **sound**shield	2 x 13mm **sound**shield	Stud	-	55	49
SSW217	2 x 13mm **sound**shield	2 x 13mm **sound**shield	Stud	-	43	33
SSW276	1 x 10mm **sound**shield	1 x 10mm **sound**shield	Acoustic stud	-	47	38
SSW277	1 x 10mm **sound**shield	2 x 10mm **sound**shield	Acoustic stud	-	50	42
SSW278	2 x 10mm **sound**shield	2 x 10mm **sound**shield	Acoustic stud	-	57	48
SSW85	1 x 13mm **masta**shield	1 x 13mm **masta**shield	Acoustic stud	-	46	37
SSW86	1 x 13mm **masta**shield	2 x 13mm **masta**shield	Acoustic stud	-	50	41
SSW87	2 x 13mm **masta**shield	2 x 13mm **masta**shield	Acoustic stud	-	56	48
SSW281	1 x 13mm **sound**shield	1 x 13mm **sound**shield	Acoustic stud	-	50	42
SSW282	1 x 13mm **sound**shield	2 x 13mm **sound**shield	Acoustic stud	-	57	49
SSW283	2 x 13mm **sound**shield	2 x 13mm **sound**shield	Acoustic stud	-	62	54
SSW20	1 x 10mm **masta**shield	1 x 10mm **masta**shield	Staggered stud	-	42	31
SSW21	1 x 10mm **masta**shield	2 x 10mm **masta**shield	Staggered stud	-	47	35
SSW22	2 x 10mm **masta**shield	2 x 10mm **masta**shield	Staggered stud	-	52	42
SSW220	1 x 10mm **sound**shield	1 x 10mm **sound**shield	Staggered stud	-	45	33
SSW221	1 x 10mm **sound**shield	2 x 10mm **sound**shield	Staggered stud	-	50	40
SSW222	2 x 10mm **sound**shield	2 x 10mm **sound**shield	Staggered stud	-	54	46
SSW25	1 x 13mm **masta**shield	1 x 13mm **masta**shield	Staggered stud	-	45	33
SSW26	1 x 13mm **masta**shield	2 x 13mm **masta**shield	Staggered stud	-	50	40
SSW27	2 x 13mm **masta**shield	2 x 13mm **masta**shield	Staggered stud	-	54	46
SSW225	1 x 13mm **sound**shield	1 x 13mm **sound**shield	Staggered stud	-	48	40
SSW226	1 x 13mm **sound**shield	2 x 13mm **sound**shield	Staggered stud	-	52	46
SSW227	2 x 13mm **sound**shield	2 x 13mm **sound**shield	Staggered stud	-	58	51

1. Stud, Acoustic Stud and Staggered stud acoustic values determined using 92mm cavity with glasswool insulation.



Fire Rated Internal Partition Walls

System	Side 1	Side 2	Frame	FRL		Acoustics[1]	
						Rw	Rw+Ctr
SSW300	1 x 13mm **fire**shield	-	Stud			30	26
SSW301	2 x 13mm **fire**shield	-	Stud	-/30/30	30/30/30	34	30
SSW302	3 x 13mm **fire**shield	-	Stud	-/90/90	90/90/90	37	34
SSW310	1 x 13mm **fire**shield	1 x 13mm **fire**shield	Stud	-/60/60	30/30/30	46	36
SSW311	1 x 13mm **fire**shield	2 x 13mm **fire**shield	Stud	-/90/90	30/30/30	50	42
SSW312	2 x 13mm **fire**shield	2 x 13mm **fire**shield	Stud	-/120/120	90/90/90	55	47
SSW314	3 x 13mm **fire**shield	3 x 13mm **fire**shield	Stud	-/180/180	120/120/120	59	**53**
SSW910	1 x 13mm **tru**rock	1 x 13mm **tru**rock	Stud	-/60/60	30/30/30	47	39
SSW911	1 x 13mm **tru**rock	2 x 13mm **tru**rock	Stud	-/90/90	30/30/30	52	45
SSW912	2 x 13mm **tru**rock	2 x 13mm **tru**rock	Stud	-/120/120	90/90/90	56	**50**
SSW510	1 x 13mm **fire**shield	1 x 13mm **fire**shield + 1 x 6mm Villaboard™	Stud	-/60/60	30/30/30	51	42
SSW512	1 x 13mm **fire**shield + 1 x 6mm Villaboard™	1 x 13mm **fire**shield + 1 x 6mm Villaboard™	Stud	-/90/90	30/30/30	55	47
SSW303	1 x 16mm **fire**shield	-	Stud	-	-		
SSW304	2 x 16mm **fire**shield	-	Stud	-/60/60	60/60/60	35	31
SSW305	3 x 16mm **fire**shield	-	Stud	-/120/120	120/120/120	38	35
SSW315	1 x 16mm **fire**shield	1 x 16mm **fire**shield	Stud	-/90/90	60/60/60	48	39
SSW316	1 x 16mm **fire**shield	2 x 16mm **fire**shield	Stud	-/120/120	60/60/60	52	45
SSW317	2 x 16mm **fire**shield	2 x 16mm **fire**shield	Stud	-/120/120	120/120/120	56	**50**
SSW319	3 x 16mm **fire**shield	3 x 16mm **fire**shield	Stud	-/240/240	120/120/120	60	**55**
SSW580	4 x 16mm **fire**shield	4 x 16mm **fire**shield	Stud	-/240/240	180/180/180	66	**61**
SSW582	2 x 25mm **shaft**liner + 1 x 13mm **fire**shield	2 x 25mm **shaft**liner + 1 x 13mm **fire**shield	Stud	-/240/240	180/180/180	61	**56**
SSW514	1 x 16mm **fire**shield	1 x 16mm **fire**shield + 1 x 6mm Villaboard™	Stud	-/90/90	60/60/60	53	43
SSW516	1 x 16mm **fire**shield + 1 x 6mm Villaboard™	1 x 16mm **fire**shield + 1 x 6mm Villaboard™	Stud	-/120/120	60/60/60	56	48
SSW386	1 x 13mm **fire**shield	1 x 13mm **fire**shield	Acoustic stud	-/60/60	30/30/30	50	41
SSW387	1 x 13mm **fire**shield	2 x 13mm **fire**shield	Acoustic stud	-/90/90	30/30/30	56	47
SSW388	2 x 13mm **fire**shield	2 x 13mm **fire**shield	Acoustic stud	-/120/120	90/90/90	61	**52**
SSW396	1 x 13mm **fire**shield + 1 x 13mm **masta**shield	1 x 13mm **fire**shield + 1 x 13mm **masta**shield	Acoustic stud	-/90/90	60/60/60	58	**51**

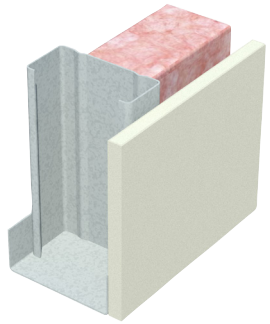
1. Stud and Acoustic Stud acoustic values determined using 92mm cavity with glasswool insulation.

Fire Rated Internal Partition Walls

System	Side 1	Side 2	Frame[2]	FRL		Acoustics[1,2]	
						Rw	Rw+Ctr
SSW551	2 x 13mm fireshield	1 x 13mm fireshield + 1 x 6mm Villaboard™	Acoustic stud	-/90/90	30/30/30	60	**50**
SSW552	1 x 13mm fireshield + 1 x 6mm Villaboard™	1 x 13mm fireshield + 1 x 6mm Villaboard™	Acoustic stud	-/90/90	30/30/30	58	**50**
SSW391	1 x 16mm fireshield	1 x 16mm fireshield	Acoustic stud	-/90/90	60/60/60	51	43
SSW392	1 x 16mm fireshield	2 x 16mm fireshield	Acoustic stud	-/120/120	60/60/60	58	**50**
SSW393	2 x 16mm fireshield	2 x 16mm fireshield	Acoustic stud	-/120/120	120/120/120	62	**54**
SSW397	1 x 16mm fireshield + 1 x 10mm mastashield	1 x 16mm fireshield + 1 x 10mm mastashield	Acoustic stud	-/120/120	60/60/60	61	**51**
SSW555	2 x 16mm fireshield	1 x 16mm fireshield + 1 x 6mm Villaboard™	Acoustic stud	-/120/120	60/60/60	62	**53**
SSW556	1 x 16mm fireshield + 1 x 6mm Villaboard™	1 x 16mm fireshield + 1 x 6mm Villaboard™	Acoustic stud	-/120/120	60/60/60	61	**51**
SSW330	1 x 13mm fireshield	1 x 13mm fireshield	Double stud	-/60/60	30/30/30	50	38
SSW331	1 x 13mm fireshield	2 x 13mm fireshield	Double stud	-/90/90	30/30/30	60	**50**
SSW332	2 x 13mm fireshield	2 x 13mm fireshield	Double stud	-/120/120	90/90/90	63	**53**
SSW380	1 x 13mm fireshield + 1 x 13mm mastashield	1 x 13mm fireshield + 1 x 13mm mastashield	Double stud	-/90/90	60/60/60	64	**51**
SSW531	2 x 13mm fireshield	1 x 13mm fireshield + 1 x 6mm Villaboard™	Double stud	-/90/90	30/30/30	63	**50**
SSW532	1 x 13mm fireshield + 1 x 6mm Villaboard™	1 x 13mm fireshield + 1 x 6mm Villaboard™	Double stud	-/90/90	30/30/30	62	**50**
SSW335	1 x 16mm fireshield	1 x 16mm fireshield	Double stud	-/90/90	60/60/60	60	**50**
SSW336	1 x 16mm fireshield	2 x 16mm fireshield	Double stud	-/120/120	60/60/60	62	**51**
SSW337	2 x 16mm fireshield	2 x 16mm fireshield	Double stud	-/120/120	120/120/120	65	**55**
SSW339	3 x 16mm fireshield	3 x 16mm fireshield	Double stud	-/240/240	120/120/120	72	**61**
SSW581	4 x 16mm fireshield	4 x 16mm fireshield	Double stud	-/240/240	180/180/180	79	**71**
SSW583	2 x 25mm shaftliner + 1 x 13mm fireshield	2 x 25mm shaftliner + 1 x 13mm fireshield	Double stud	-/240/240	180/180/180	77	**70**
SSW381	1 x 16mm fireshield	1 x 16mm fireshield + 1 x 10mm mastashield	Double stud	-/90/90	60/60/60	60	**50**
SSW382	1 x 16mm fireshield + 1 x 10mm mastashield	1 x 16mm fireshield + 1 x 10mm mastashield	Double stud	-/120/120	60/60/60	64	**52**
SSW534	1 x 16mm fireshield	1 x 16mm fireshield + 1 x 6mm Villaboard™	Double stud	-/90/90	60/60/60	59	47
SSW535	2 x 16mm fireshield	1 x 16mm fireshield + 1 x 6mm Villaboard™	Double stud	-/120/120	60/60/60	65	**52**
SSW536	1 x 16mm fireshield + 1 x 6mm Villaboard™	1 x 16mm fireshield + 1 x 6mm Villaboard™	Double stud	-/120/120	60/60/60	64	**51**
SSW320	1 x 13mm fireshield	1 x 13mm fireshield	Staggered stud	-/60/60	30/30/30	47	36
SSW321	1 x 13mm fireshield	2 x 13mm fireshield	Staggered stud	-/90/90	30/30/30	51	43
SSW322	2 x 13mm fireshield	2 x 13mm fireshield	Staggered stud	-/120/120	90/90/90	58	**50**
SSW520	1 x 13mm fireshield	1 x 13mm fireshield + 1 x 6mm Villaboard™	Staggered stud	-/60/60	30/30/30	51	43
SSW522	1 x 13mm fireshield + 1 x 6mm Villaboard™	1 x 13mm fireshield + 1 x 6mm Villaboard™	Staggered stud	-/90/90	30/30/30	56	48
SSW325	1 x 16mm fireshield	1 x 16mm fireshield	Staggered stud	-/90/90	60/60/60	52	44
SSW326	1 x 16mm fireshield	2 x 16mm fireshield	Staggered stud	-/120/120	60/60/60	52	46
SSW327	2 x 16mm fireshield	2 x 16mm fireshield	Staggered stud	-/120/120	120/120/120	58	**52**
SSW524	1 x 16mm fireshield	1 x 16mm fireshield + 1 x 6mm Villaboard™	Staggered stud	-/90/90	60/60/60	52	45
SSW526	1 x 16mm fireshield + 1 x 6mm Villaboard™	1 x 16mm fireshield + 1 x 6mm Villaboard™	Staggered stud	-/120/120	60/60/60	59	**51**

1. Acoustic stud and Staggered stud acoustic values determined using 92mm cavity with Glasswool insulation.
2. Double stud acoustic values determined using 148mm cavity with Glasswool insulation.

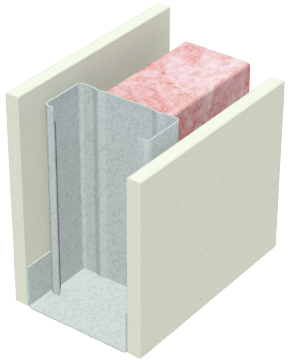
SSW1



- 1 layer of 10mm **masta**shield or 10mm **water**shield
- Steel stud framing at maximum 600mm centres

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	61	25 (21)	29 (25)	Report INSUL v9
64	74			
76	86			
92	102			
150	160			

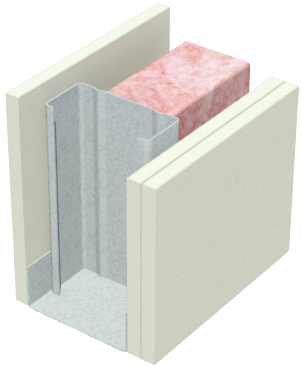
SSW10



- 1 layer of 10mm **masta**shield or 10mm **water**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 10mm **masta**shield or 10mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	71	33 (24)	37 (29)	Report Day Design 3094-33
64	84	33 (24)	39 (30)	
76	96	33 (24)	39 (30)	
92	112	33 (25)	40 (31)	
150	170	35 (25)	43 (33)	

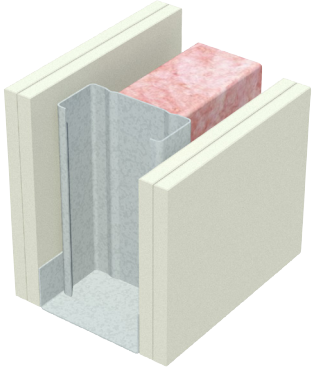
SSW11



- 1 layer of 10mm **masta**shield or 10mm **water**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 10mm **masta**shield or 10mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	81	37 (28)	42 (34)	Report Day Design 3094-33
64	94	38 (29)	43 (34)	
76	106	38 (29)	44 (35)	
92	122	38 (29)	45 (35)	
150	180	40 (29)	48 (38)	

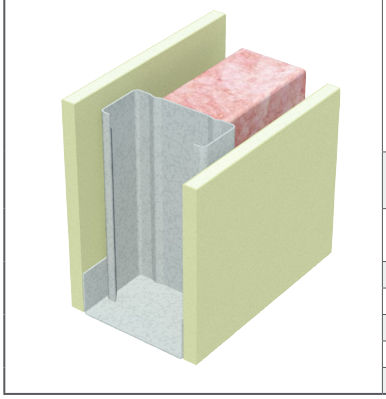
SSW12



- 2 layers of 10mm **masta**shield or 10mm **water**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 10mm **masta**shield or 10mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	91	40 (31)	47 (37)	Report Day Design 3094-33
64	104	41 (32)	48 (37)	
76	116	41 (32)	49 (39)	
92	132	42 (32)	50 (40)	
150	190	44 (36)	53 (44)	

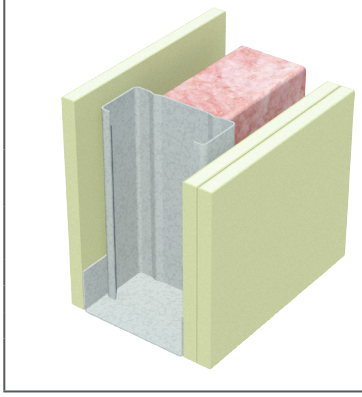
SSW210



- 1 layer of 10mm **sound**shield or 10mm **opal**
- Steel stud framing at maximum 600mm centres
- 1 layer of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Reports
51	71	33 (26)	41 (33)	Day Design 3094-33
64	84	33 (26)[1]	42 (33)	
76	96	34 (26)	43 (34)	
92	112	35 (27)	43 (34)	[1]STR057
150	170	37 (27)	46 (36)	

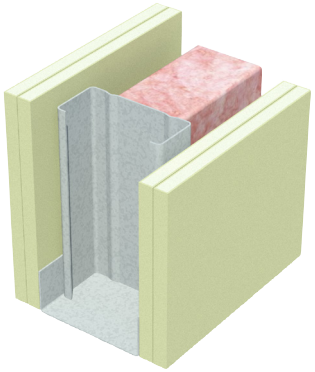
SSW211



- 1 layer of 10mm **sound**shield or 10mm **opal**
- Steel stud framing at maximum 600mm centres
- 2 layers of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Report
51	81	39 (31)	46 (37)	Day Design 3094-33
64	94	39 (31)	46 (37)	
76	106	40 (31)	48 (37)	
92	122	40 (31)	49 (39)	
150	180	42 (32)	50 (42)	

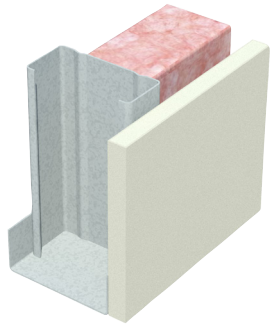
SSW212



- 2 layers of 10mm **sound**shield or 10mm **opal**
- Steel stud framing at maximum 600mm centres
- 2 layers of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Report
51	91	43 (33)	50 (40)	Day Design 3094-33
64	104	43 (33)	51 (42)	
76	116	44 (34)	52 (43)	
92	132	45 (34)	53 (44)	
150	190	47 (39)	54 (47)	

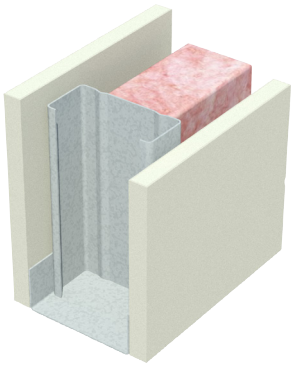
SSW4



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- Steel stud framing at maximum 600mm centres

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	
51	64	29 (25)	32 (28)	Report Day Design 3094-33
64	77			
76	89			
92	105			
150	163			

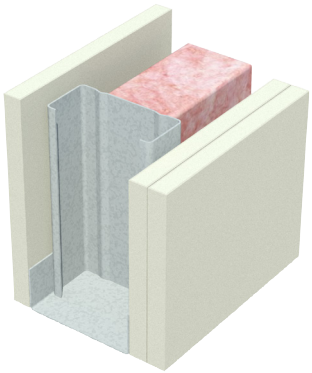
SSW15



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	77	33 (26)	41 (33)	Report Day Design 3094-33
64	90	34 (26)	42 (33)	
76	102	34 (26)	43 (33)	
92	118	35 (27)	43 (33)	
150	176	37 (27)	45 (37)	

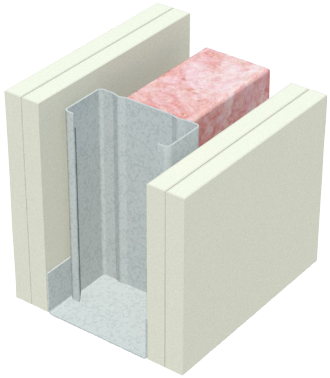
SSW16



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	90	39 (31)	46 (36)	Report Day Design 3094-33
64	103	39 (31)	47 (37)	
76	115	40 (31)	47 (37)	
92	131	40 (31)	49 (39)	
150	189	42 (32)	50 (42)	

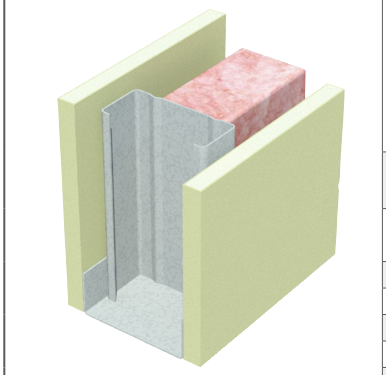
SSW17



- 2 layers of 13mm **masta**shield or 13mm **water**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	103	42 (33)	50 (40)	Report Day Design 3094-33
64	116	43 (33)	51 (41)	
76	128	44 (34)	52 (43)	
92	144	44 (34)	53 (44)	
150	202	47 (39)	54 (47)	

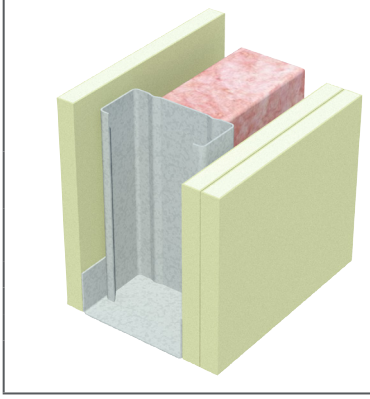
SSW215



- 1 layer of 13mm **sound**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Report
51	77	36 (29)	45 (37)	Day Design 3094-33
64	90	37 (29)[1]	45 (37)	
76	102	37 (30)	46 (37)	
92	118	38 (30)	47 (39)	[1]TL442b
150	176	41 (31)	48 (42)	

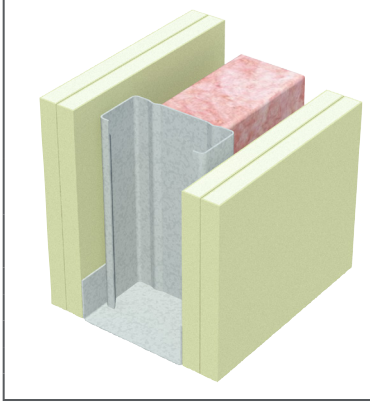
SSW216



- 1 layer of 13mm **sound**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Report
51	90	42 (34)	50 (40)	Day Design 3094-33
64	103	43 (34)	51 (42)	
76	115	44 (34)	51 (43)	
92	131	45 (35)	52 (44)	
150	189	47 (37)	53 (47)	

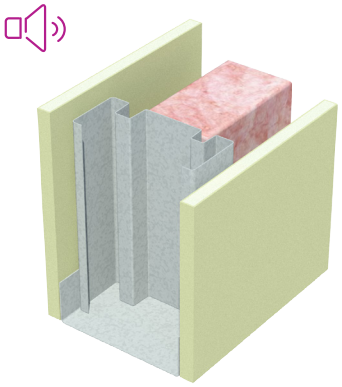
SSW217



- 2 layers of 13mm **sound**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	Report
51	103	46 (40)	54 (46)	Day Design 3094-33
64	116	47 (41)	55 (47)	
76	128	48 (41)	55 (48)	
92	144	49 (42)	55 (49)	
150	202	51 (44)	56 (52)	

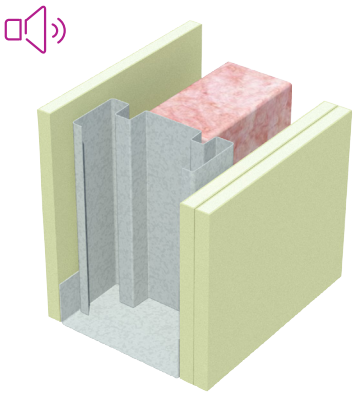
SSW276



- 1 layer of 10mm **sound**shield or 10mm **opal**
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	112	41 (34)	47 (38)	Report Day Design 5008.28

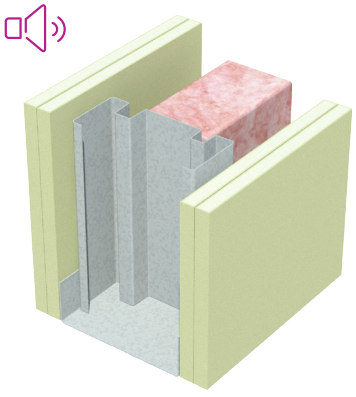
SSW277



- 1 layer of 10mm **sound**shield or 10mm **opal**
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	122	43 (36)	50 (42)	Report Day Design 5008.28

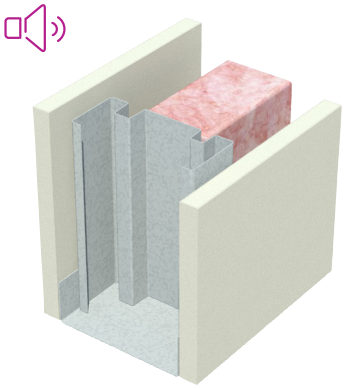
SSW278



- 2 layers of 10mm **sound**shield or 10mm **opal**
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 10mm **sound**shield or 10mm **opal**

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	132	49 (43)	57 (48)	Report Day Design 5008.28

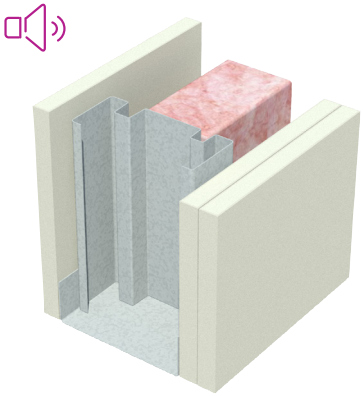
SSW85



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	118	39 (33)	46 (37)	Report Day Design 5008.28

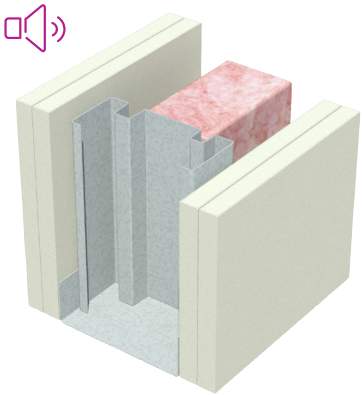
SSW86



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	131	43 (36)	50 (41)	Report Day Design 5008.28

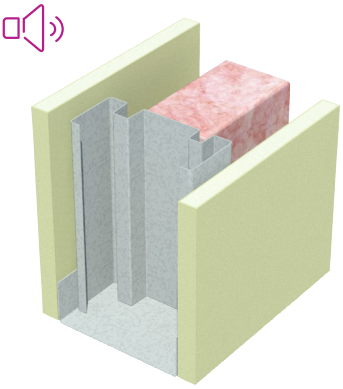
SSW87



- 2 layers of 13mm **masta**shield or 13mm **water**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	144	49 (43)	56 (48)	Report Day Design 5008.28

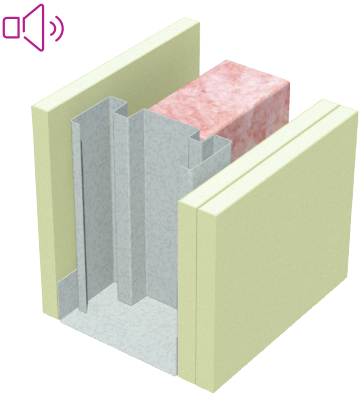
SSW281



- 1 layer of 13mm **sound**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	118	42 (36)	50 (42)	Report Day Design 5008.28

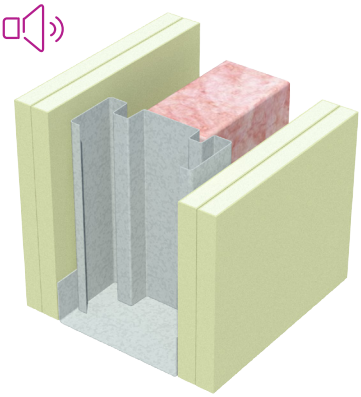
SSW282



- 1 layer of 13mm **sound**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	131	48 (43)	57 (49)	Report Day Design 5008.28

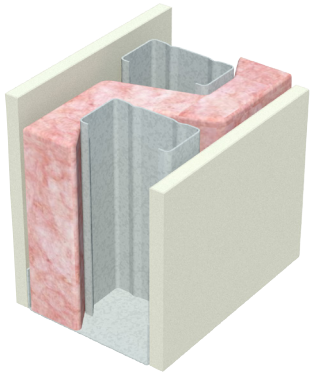
SSW283



- 2 layers of 13mm **sound**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **sound**shield

Stud Size (mm)	**Wall Width** (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	144	54 (50)	62 (54)	Report Day Design 5008.28

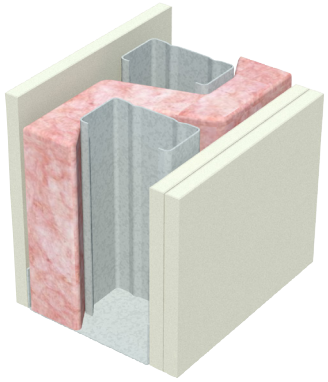
SSW20



- 1 layer of 10mm **masta**shield or 10mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 10mm **masta**shield or 10mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	112	33 (36)	42 (31)	43 (32)	Day Design 3094-33
150	170	34 (26)	44 (32)	45 (33)	Note: Impact sound Resistant

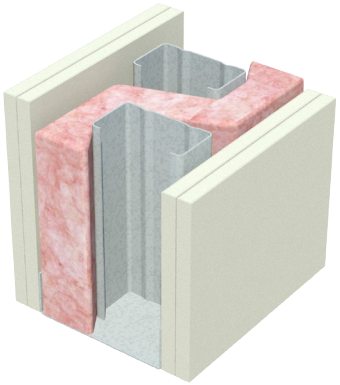
SSW21



- 1 layer of 10mm **masta**shield or 10mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 10mm **masta**shield or 10mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	122	37 (29)	47 (35)	48 (36)	Day Design 3094-33
150	180	38 (29)	49 (38)	50 (39)	Note: Impact sound Resistant

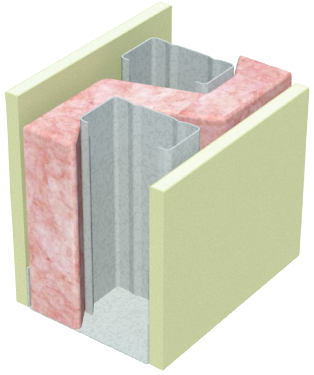
SSW22



- 2 layers of 10mm **masta**shield or 10mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 10mm **masta**shield or 10mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	132	42 (33)	52 (42)	52 (43)	Day Design 3094-33
150	190	44 (34)	53 (45)	54 (46)	Note: Impact sound Resistant

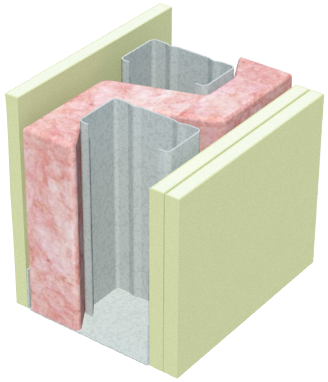
SSW220



- 1 layer of 10mm **sound**shield or 10mm **opal**
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 10mm **sound**shield or 10mm **opal**

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	112	35 (28)	45 (33)[1]	45 (34)	Day Design 3094-33 [1]TL442g
150	170	37 (28)	46 (36)	47 (37)	Note: Impact sound Resistant

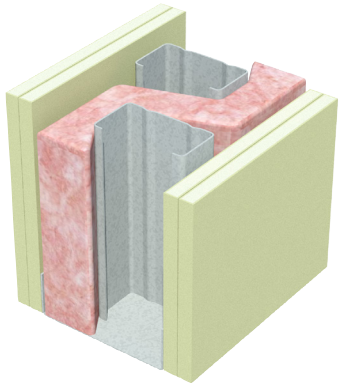
SSW221



- 1 layer of 10mm **sound**shield or 10mm **opal**
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 10mm **sound**shield or 10mm **opal**

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	122	40 (32)	50 (40)	50 (41)	Day Design 3094-33
150	180	42 (33)	51 (44)	52 (45)	Note: Impact sound Resistant

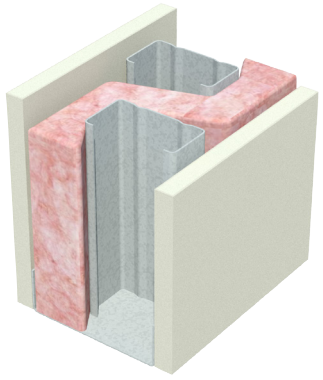
SSW222



- 2 layers of 10mm **sound**shield or 10mm **opal**
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 10mm **sound**shield or 10mm **opal**

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	132	44 (35)	54 (46)	55 (47)	Day Design 3094-33
150	190	47 (37)	55 (49)	56 (50)	Note: Impact sound Resistant

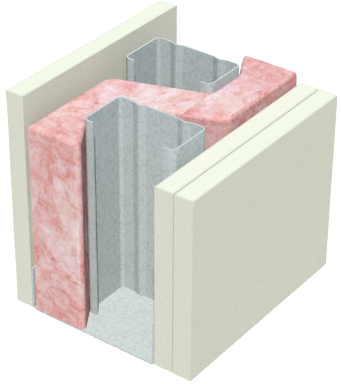
SSW25



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 13mm **masta**shield or 13mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	118	35 (27)	45 (33)	45 (34)	Day Design 3094-33
150	176	36 (28)	46 (36)	47 (37)	Note: Impact sound Resistant

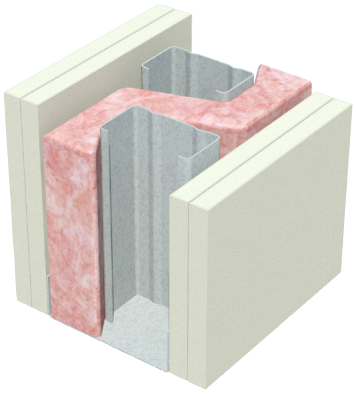
SSW26



- 1 layer of 13mm **masta**shield or 13mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	131	40 (32)	50 (40)	50 (41)	Day Design 3094-33
150	189	42 (33)	51 (44)	52 (45)	Note: Impact sound Resistant

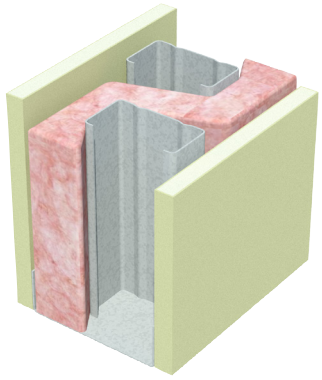
SSW27



- 2 layers of 13mm **masta**shield or 13mm **water**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **masta**shield or 13mm **water**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	144	44 (35)	54 (46)	54 (47)	Day Design 3094-33
150	202	47 (37)	55 (49)	56 (49)	Note: Impact sound Resistant

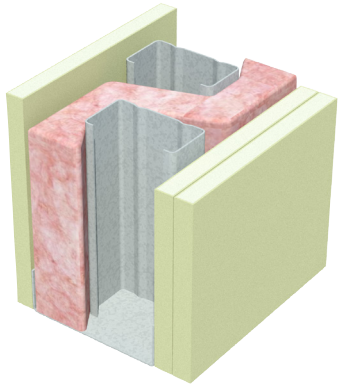
SSW225



- 1 layer of 13mm **sound**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 13mm **sound**shield

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	118	40 (32)	48 (40)	49 (41)	Day Design 3094-33 [1]TL442C
150	176	42 (33)	49 (43)	51 (46)[1]	Note: Impact sound Resistant

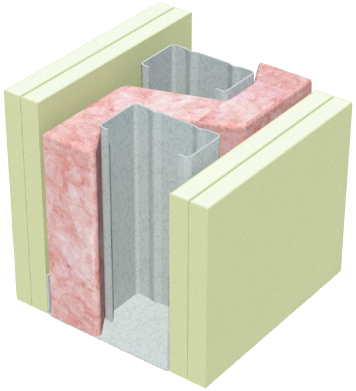
SSW226



- 1 layer of 13mm **sound**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **sound**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	131	44 (36)	52 (46)	53 (47)	Day Design 3094-33
150	189	46 (37)	53 (48)	54 (49)	Note: Impact sound Resistant

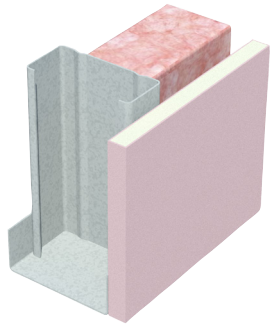
SSW227



- 2 layers of 13mm **sound**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **sound**shield

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	144	49 (42)	58 (51)	59 (52)	Day Design 3094-33 [1]TL442d
150	202	51 (43)	59 (53)[1]	60 (54)	Note: Impact sound Resistant

SSW300

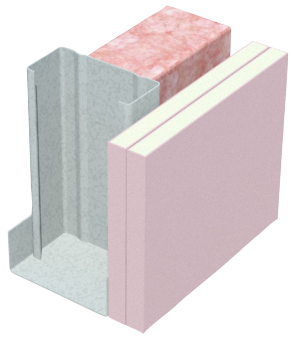


- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	64	30 (26)	33 (29)	Report Day Design 3094-35
64	77			
76	89			
92	105			
150	163			

SSW301



- 2 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

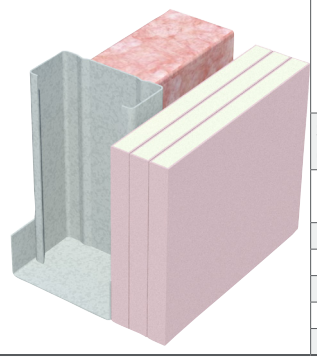
Fire Resistance Level

-/30/30 and **30/30/30**
rated from the lined side only

Report
FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	77	34 (30) [1]	39 (35)	Reports Day Design 3094-33 [1]ATF 1530 INSUL v9
64	90			
76	102			
92	118			
150	176			

SSW302



- 3 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

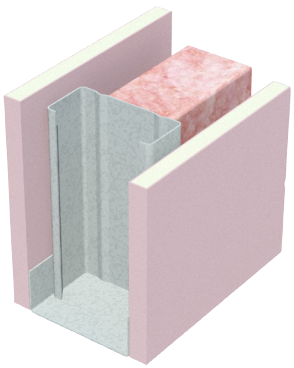
Fire Resistance Level

-/90/90 and **90/90/90**
rated from the lined side only

Report
FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11 kg/m³ R1.2	
51	90	37 (24)	42 (39)	Reports Day Design 3094-33 INSUL v9
64	103			
76	115			
92	131			
150	189			

SSW310



- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

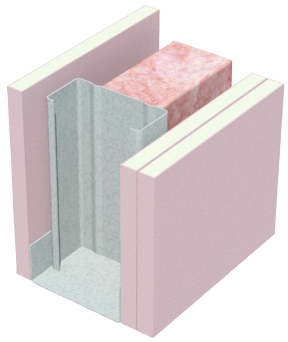
Fire Resistance Level

-/60/60 and **30/30/30**
rated from both sides

Report
FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	
51	77	36 (28)	43 (34)	Reports Day Design 3094-33 [1]STR082 [2]TL561-07 Use Pink® Partition 50mm 32 kg/m³ R1.5 to achieve 45 (36)
64	90	36 (28)[1]	44 (34)[2]	
76	102	37 (28)	45 (35)	
92	118	38 (29)	46 (36)	
150	176	39 (29)	47 (40)	

SSW311



- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

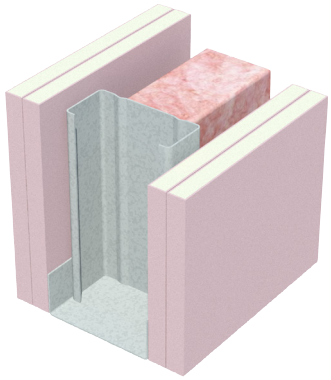
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	**Wall Width (mm)**	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 11 kg/m³ R1.8	Reports
51	90	41 (33)	48 (39)	-	Day Design 3094-33
64	103	42 (33)	49 (39)	-	
76	115	42 (33)	50 (40)	-	
92	131	43 (33)	50 (42)	50 (43)[1]	[1]TL561-05
150	189	45 (35)	52 (45)	-	

SSW312



- 2 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

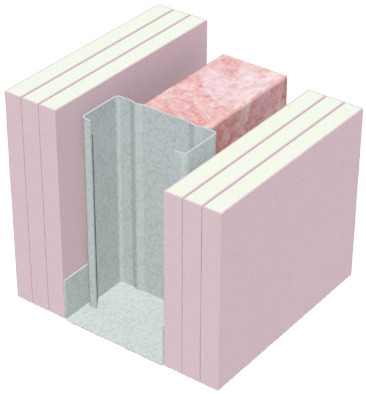
Fire Resistance Level

-/120/120 and **90/90/90** rated from both sides

Report FC13921

Stud Size (mm)	**Wall Width (mm)**	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	103	46 (39)	52 (43)	Day Design 3094-33
64	116	47 (40)	53 (45)	
76	128	47 (40)	54 (46)	
92	144	49 (42)[1]	55 (47)	[1]HAS 087
150	202	51 (42)	55 (**50**)	

SSW314



- 3 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 3 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

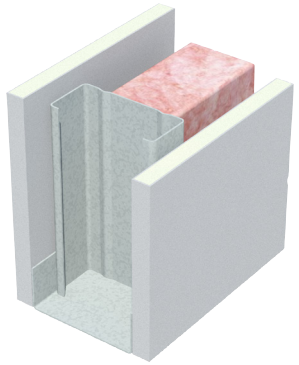
Fire Resistance Level

-/180/180 and **120/120/120** rated from both sides

Report FC13921

Stud Size (mm)	**Wall Width (mm)**	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
51	129	50 (43)	58 (**50**)	Day Design 3094-33
64	142	51 (43)	58 (**51**)	
76	154	52 (44)	59 (**52**)	
92	170	53 (45)	59 (**53**)	
150	228	56 (48)	60 (**55**)	

SSW910



- 1 layer of 13mm **tru**rock
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **tru**rock

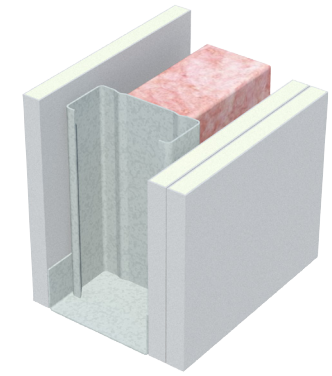
Fire Resistance Level

-/60/60 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	**Wall Width (mm)**	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	77	36 (29)	45 (37)	Day Design 5008-09 3094-33
64	90	37 (30)	46 (37)	
76	102	38 (30)	47 (38)	
92	118	38 (30)	47 (39)	
150	176	40 (31)	49 (42)	

SSW911



- 1 layer of 13mm **tru**rock
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **tru**rock

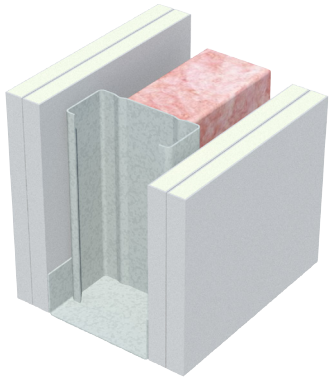
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	90	43 (34)	50 (41)	Day Design 5008-09 3094-33
64	103	43 (34)	51 (42)	
76	115	44 (35)	51 (44)	
92	131	45 (35)	52 (45)	
150	189	47 (37)	53 (48)	

SSW912



- 2 layers of 13mm **tru**rock
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **tru**rock

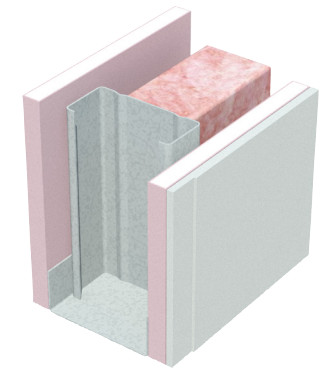
Fire Resistance Level

-/120/120 and **90/90/90** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	103	47 (40)	54 (46)	Day Design 5008-09 3094-33
64	116	48 (41)	55 (48)	
76	128	49 (41)	55 (49)	
92	144	49 (42)	56 (**50**)	
150	202	52 (44)	56 (**52**)	

SSW510



- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

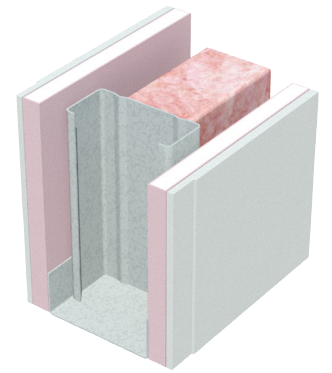
Fire Resistance Level

-/60/60 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	83	42 (32)	48 (39)	Day Design 3094-33
64	96	42 (32)	49 (39)	
76	108	42 (32)	50 (40)	
92	124	43 (33)	51 (42)	
150	182	45 (34)	52 (45)	

SSW512



- 1 layer of 13mm **fire**shield + 6mm Villaboard™
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

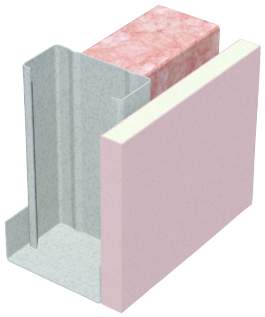
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports
51	89	45 (35)	53 (42)	Day Design 3094-33
64	102	46 (35)	54 (44)	
76	114	46 (36)	55 (46)	
92	130	47 (36)	55 (47)	
150	188	49 (41)	56 (**50**)	

SSW303

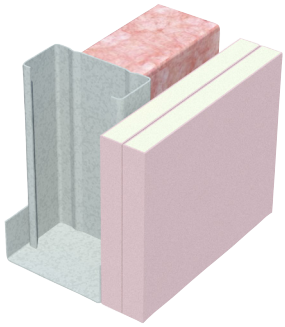


- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
51	67	30 (27)	33 (30)	Day Design 3094-35 INSUL v9
64	80			
76	92			
92	108			
150	166			

SSW304



- 2 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

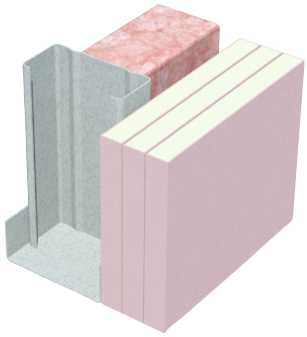
Fire Resistance Level

-/60/60 and **60/60/60** rated from the lined side only

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
51	83	35 (31)	40 (37)	Day Design 3094-33 INSUL v9
64	96			
76	108			
92	124			
150	182			

SSW305



- 3 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres

fireshield can be substituted with **multi**shield or **tru**rock

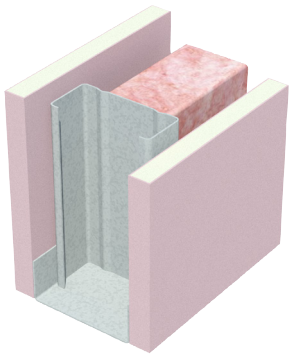
Fire Resistance Level

-/120/120 and **120/120/120** rated from the lined side only

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
51	99	38 (35)	43 (40)	Day Design 3094-33 INSUL v9
64	112			
76	124			
92	140			
150	198			

SSW315



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

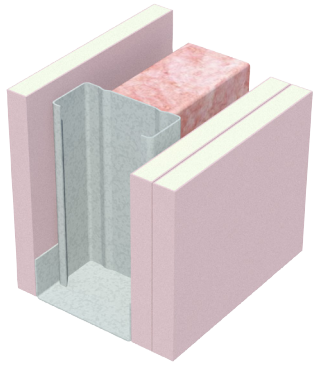
-/90/90 and **60/60/60** rated from both sides using Glasswool insulation

-/60/60 and **60/60/60** rated from both sides using either polyester insulation or no insulation

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports Day Design 3094-33
51	83	36 (29)	45 (37)	
64	96	37 (29)[1]	46 (37)	
76	108	38 (30)	47 (38)	
92	124	38 (30)	47 (39)	[1]HAS 086
150	182	40 (31)	49 (42)	

SSW316



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

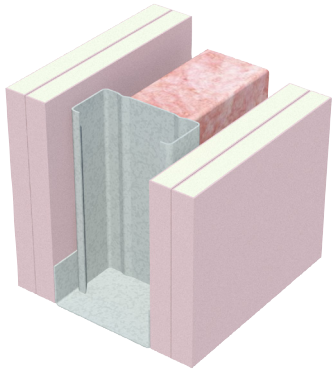
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)	
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2
51	99	43 (34)	50 (41)
64	112	43 (34)	51 (42)
76	124	44 (35)	51 (44)
92	140	45 (35)	52 (45)
150	198	47 (37)	53 (48)

Report

Day Design 3094-33

SSW317



- 2 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

-/120/120 and **120/120/120** rated from both sides

Report FC13921

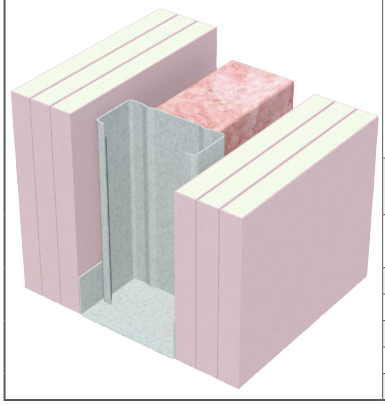
Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)	
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2
51	115	47 (40)	54 (46)
64	128	48 (41)	55 (48)
76	140	49 (41)	55 (49)
92	156	49 (42)[1]	56 (**50**)
150	214	52 (44)	56 (**52**)

Report

Day Design 3094-33

[1]HAS087

SSW319



- 3 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 3 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

-/240/240 and **120/120/120** rated from both sides

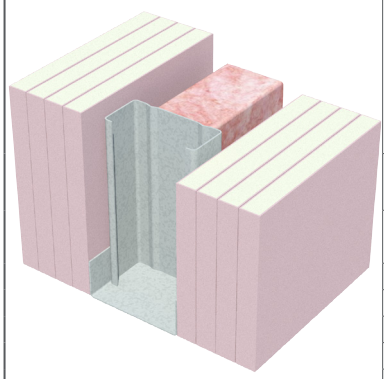
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)	
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2
51	147	53 (46)	59 (**52**)
64	160	54 (47)	59 (**54**)
76	172	55 (47)	60 (**54**)
92	188	56 (48)	60 (**55**)
150	246	59 (**50**)	60 (**56**)

Reports

Day Design 3094-33

SSW580



- 4 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 4 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

-/240/240 and **180/180/180** rated from both sides

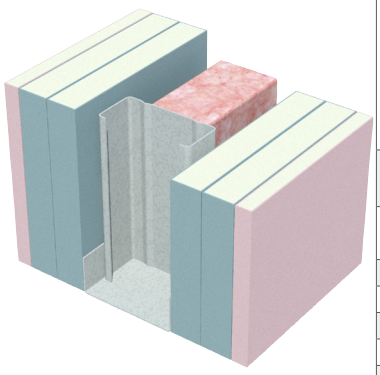
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)	
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2
51	179	61 (**53**)	65 (**58**)
64	192	62 (**54**)	66 (**59**)
76	204	62 (**55**)	66 (**60**)
92	220	63 (**56**)	66 (**61**)
150	278	64 (**58**)	67 (**62**)

Reports

INSUL v9

SSW582



- 2 layers of 25mm **shaft**liner + 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 2 layers of 25mm **shaft**liner + 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

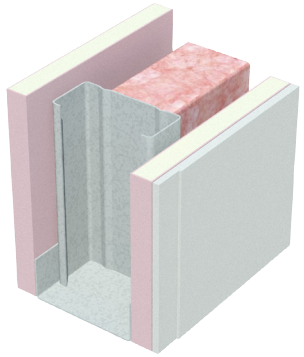
Fire Resistance Level

-/240/240 and **180/180/180** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	
51	177	57 (49)	60 (**53**)	Reports INSUL v9
64	190	57 (**50**)	60 (**55**)	
76	202	58 (**51**)	60 (**55**)	
92	218	58 (**51**)	61 (**56**)	
150	276	59 (**53**)	61 (**57**)	

SSW514



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **fire**shield or **tru**rock

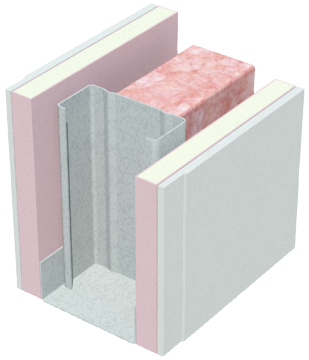
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	
51	89	44 (32)	49 (37)	Reports INSUL v9
64	102	46 (34)	51 (39)	
76	114	47 (36)	52 (43)	
92	130	48 (38)	53 (43)	
150	188	50 (42)	56 (47)	

SSW516



- 1 layer of 16mm **fire**shield + 6mm Villaboard™
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **fire**shield or **tru**rock

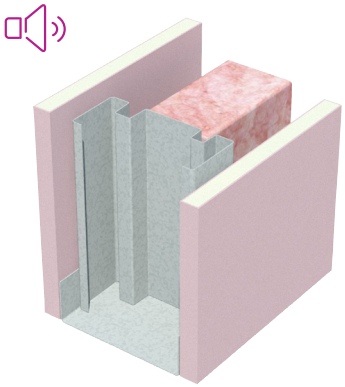
Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT **Rw (Rw + Ctr)**		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	
51	95	46 (39)	54 (44)	Reports Day Design 3094-33
64	108	47 (40)	55 (46)	
76	120	47 (40)	55 (47)	
92	136	48 (41)	56 (48)	
150	194	51 (42)	56 (**51**)	

SSW386



- 1 layer of 13mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

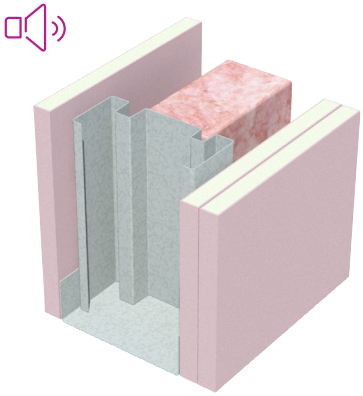
Fire Resistance Level

-/60/60 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	Reports
92 Siniat Acoustic Stud	118	42 (35)	50 (41)[1]	Day Design 5008.28 [1]TL609-02

SSW387



- 1 layer of 13mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

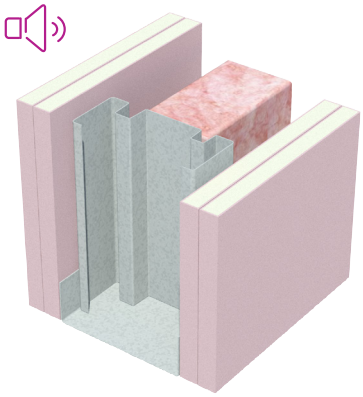
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	Report
92 Siniat Acoustic Stud	131	48 (41)	56 (47)	Day Design 5008.28

SSW388



- 2 layers of 13mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

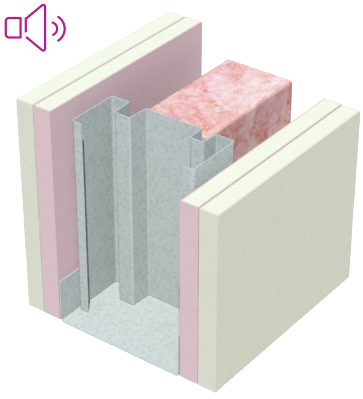
Fire Resistance Level

-/120/120 and **90/90/90** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	Report
92 Siniat Acoustic Stud	144	54 (48)	60 (**52**)	Day Design 5008.28

SSW396



- 1 layer of 13mm **fire**shield + 13mm **masta**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 13mm **masta**shield

mastashield can be substituted with **water**shield
fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

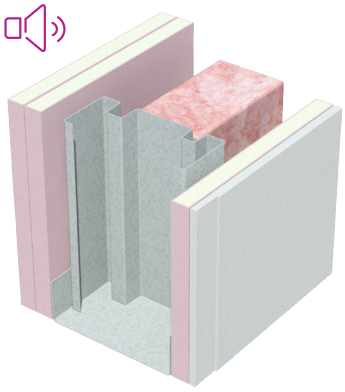
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	Reports
92 Siniat Acoustic Stud	144	51 (45)	58 (**51**)[1]	Day Design 5008.28 [1]TL609-03

SSW551



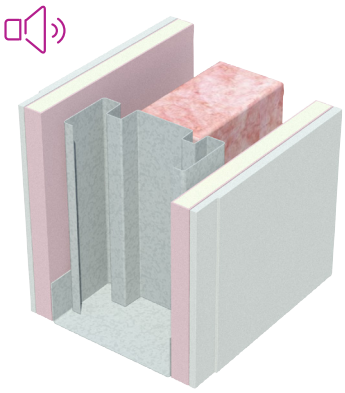
- 2 layers of 13mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/90/90 and **30/30/30** rated from both sides
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	137	51 (44)	59 (**50**)	Report Day Design 5008.28

SSW552



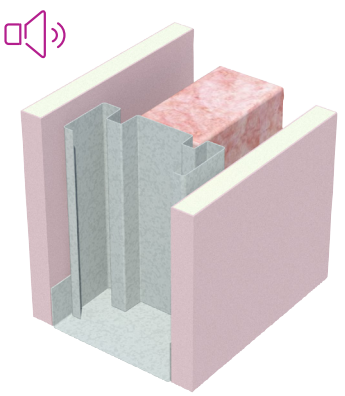
- 1 layer of 13mm **fire**shield + 6mm Villaboard™
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/90/90 and **30/30/30** rated from both sides
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	130	51 (44)	58 (**50**)	Report Day Design 5008.28

SSW391



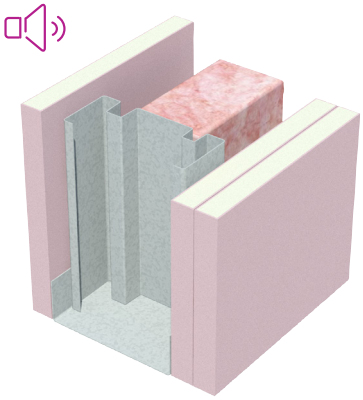
- 1 layer of 16mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/90/90 and **60/60/60** rated from both sides using Glasswool insulation
-/60/60 and **60/60/60** rated from both sides using either polyester insulation or no insulation
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	124	42 (36)	51 (43)[1]	Reports Day Design 5008.28 [1]TL609-1

SSW392



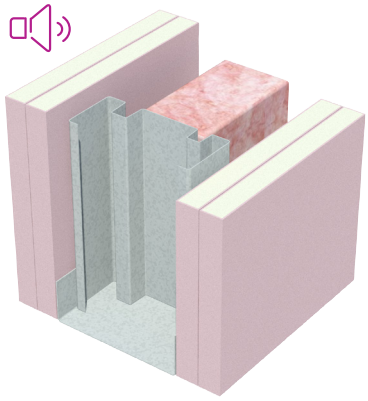
- 1 layer of 16mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/120/120 and **60/60/60** rated from both sides
Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	140	50 (44)	58 (**50**)	Report Day Design 5008.28

SSW393



- 2 layers of 16mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

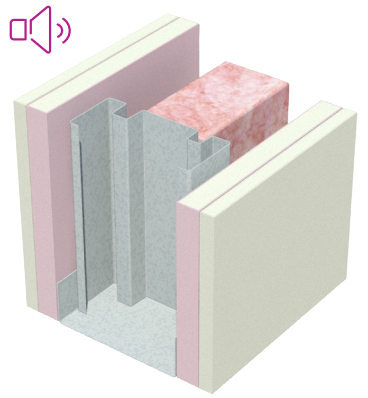
Fire Resistance Level

-/120/120 and **120/120/120** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	156	54 (47)	62 (**54**)	Report Day Design 5008.28

SSW397



- 1 layer of 16mm **fire**shield + 10mm **masta**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 10mm **masta**shield

mastashield can be substituted with **water**shield
fireshield can be substituted with **multi**shield or **tru**rock

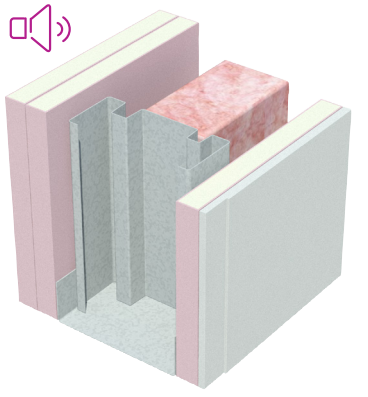
Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	144	53 (45)	61 (**51**)	Report Day Design 5008.28

SSW555



- 2 layers of 16mm **fire**shield
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

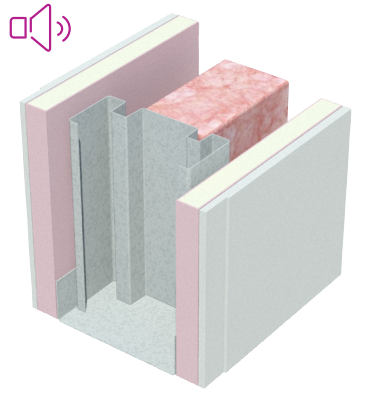
Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	146	54 (46)	62 (**53**)	Report Day Design 5008.28

SSW556



- 1 layer of 16mm **fire**shield + 6mm Villaboard™
- 92mm **acoustic** stud at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

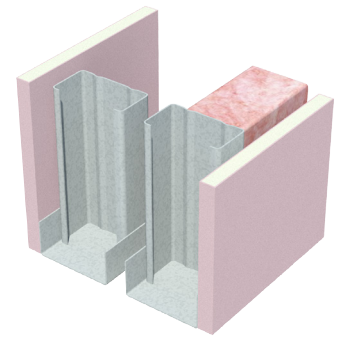
Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Stud Size (mm)	Wall Width (mm)	**Sound Insulation** for studs at 600mm centres and thinnest BMT Rw (Rw + Ctr)		
		No insulation	Pink® Partition 75mm 11 kg/m³ R1.8	
92 Siniat Acoustic Stud	136	52 (45)	61 (**51**)	Report Day Design 5008.28

SSW330



- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

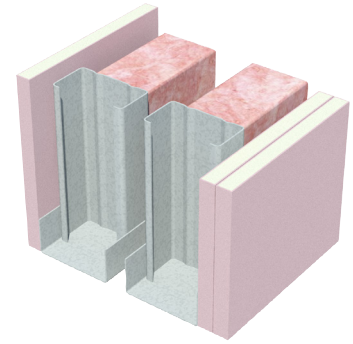
Fire Resistance Level

-/60/60 and **30/30/30** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Reports Day Design 3094-33 [1]ATF 1528 Note: Impact sound Resistant - Discontinuous Construction
148 (2 x 64mm studs plus 20mm air gap)	174	42 (35)[1]	50 (38)	
200 (2 x 64mm studs plus 72mm air gap)	226	43 (36)	51 (41)	

SSW331



- 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

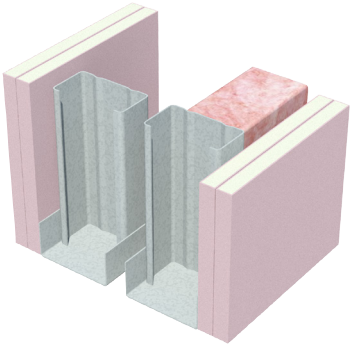
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 75mm 11 kg/m³ R1.8	Day Design 4738-L15 Note: Impact sound Resistant - Discontinuous Construction
148 (2 x 64mm studs plus 20mm air gap)	187	46 (39)	56 (45)	60 (**50**)	
200 (2 x 64mm studs plus 72mm air gap)	239	47 (39)	57 (46)	61 (**50**)	

SSW332



- 2 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

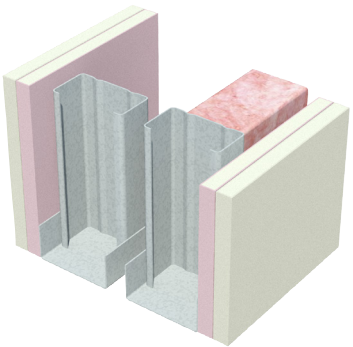
Fire Resistance Level

-/120/120 and **90/90/90** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 75mm 11 kg/m³ R1.8	Day Design 4738-L12 [1]ATF1534 [2]TL525-1 Note: Impact sound Resistant - Discontinuous Construction
148 (2 x 64mm studs plus 20mm air gap)	200	53 (45)[1]	62 (**50**)	63 (**53**)[2]	
200 (2 x 64mm studs plus 72mm air gap)	252	55 (46)	63 (**52**)	64 (**55**)	

SSW380



- 1 layer of 13mm **fire**shield + 13mm **masta**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 13mm **masta**shield

fireshield can be substituted with **multi**shield or **tru**rock
mastashield can be substituted with **water**shield

Fire Resistance Level

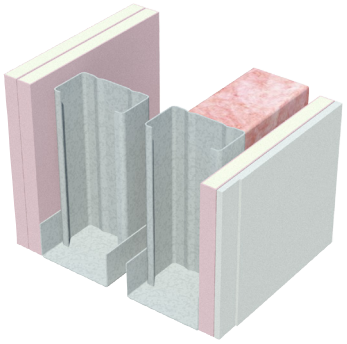
-/90/90 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)				
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 11 kg/m³ R1.8	Reports Day Design 3094-48 Note: Impact sound Resistant - Discontinuous Construction
148 (2 x 64mm studs plus 20mm air gap)	200	51 (42)	61 (48)	64 (**51**)	62 (**50**)	
200 (2 x 64mm studs plus 72mm air gap)	252	52 (44)	62 (**50**)	65 (**52**)	63 (**52**)	

'2 x' indicates insulation in both frames.

SSW531



- 2 layers of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

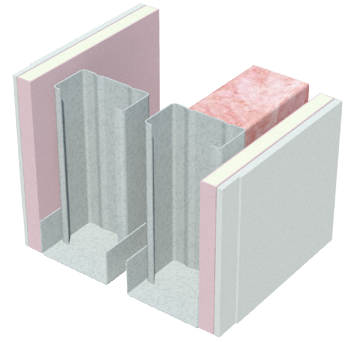
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	193	52 (44)	63 (**50**)	Day Design 3094-33 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	245	54 (45)	64 (**52**)	

SSW532



- 1 layer of 13mm **fire**shield + 6mm Villaboard™
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock

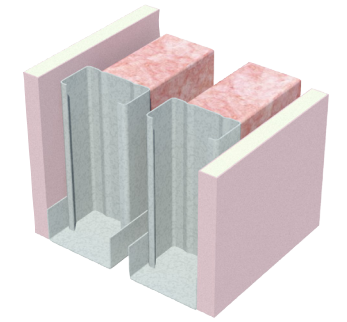
Fire Resistance Level

-/90/90 and **30/30/30** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Day Design 3094-33
148 (2 x 64mm studs plus 20mm air gap)	186	52 (43)	62 (49) ◧	Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	238	54 (45)	63 (**52**)	◧ Use Pink® Partition 75mm 11 kg/m³ R1.8 to achieve 62 (**50**)

SSW335



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

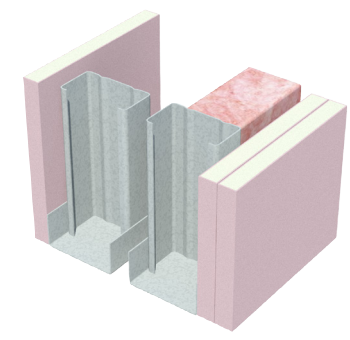
-/90/90 and **60/60/60** rated from both sides using Glasswool insulation

-/60/60 and **60/60/60** rated from both sides using either polyester insulation or no insulation

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)					
		No insulation	Pink 50mm 11 kg/m³ R1.2	**2 x** Pink 75mm 11 kg/m³ R1.8	**2 x** Pink 75mm 14 kg/m³ R1.9	**2 x** Pink 110mm 11 kg/m³ R2.5	Reports
148 (2 x 64mm studs plus 20mm air gap)	180	44 (37)	53 (42)	60 (**50**)[4]	60 (**50**)[2]	-	Day Design 3094-33, [1]TL525-3 [2]TL574-1 [3]TL525-2 [4]TL685-4
172 (2 x 64mm studs plus 44mm air gap)	204	-	-	-	-	60 (**50**)[3]	Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	232	45 (38)	54 (44)	61 (**51**)[1]	-	-	

SSW336



- 1 layer of 16mm **fire**shield or **multi**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 2 layers of 16mm **fire**shield or **multi**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

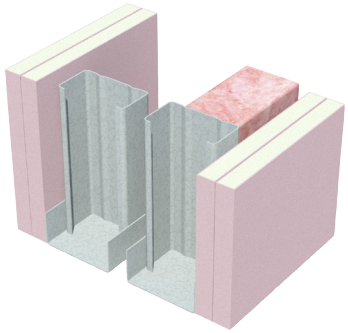
-/120/120 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	196	50 (42)	59 (48)	62 (**51**)	Day Design 3094-33 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	248	52 (44)	60 (**50**)	-	

'2 x' indicates insulation in both frames.

SSW337



- 2 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

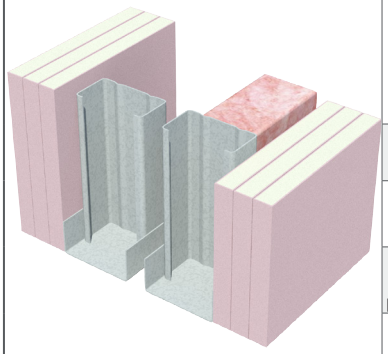
Fire Resistance Level

-/120/120 and **120/120/120** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	196	56 (47)	65 (**53**)	65 (**55**)	Day Design 4738-L4 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	248	58 (49)	66 (**56**)	67 (**57**)	

SSW339



- 3 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 3 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

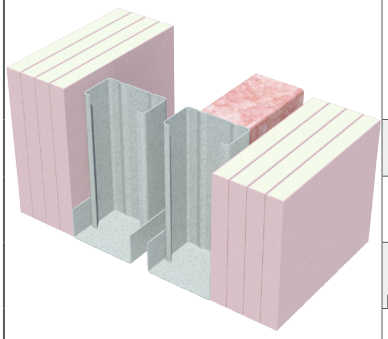
Fire Resistance Level

-/240/240 and **120/120/120** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	244	62 (**53**)	72 (**61**)	Day Design 3094-33 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	296	64 (**55**)	73 (**63**)	

SSW581



- 4 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 4 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

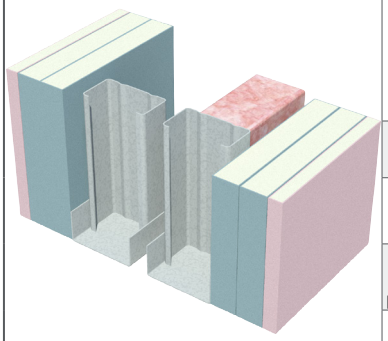
Fire Resistance Level

-/240/240 and **180/180/180** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	276	69 (**63**)	79 (**71**)	INSUL v9 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	328	69 (**64**)	80 (**73**)	

SSW583



- 2 layers of 25mm **shaft**liner + 1 layer of 13mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 2 layers of 25mm **shaft**liner + 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level

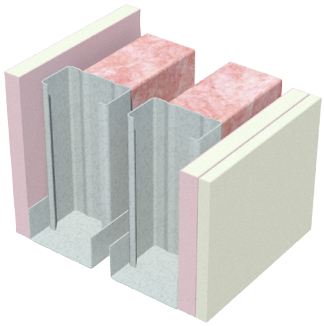
-/240/240 and **180/180/180** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	274	66 (**60**)	77 (**70**)	INSUL v9 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	326	66 (**61**)	78 (**71**)	

'2 x' indicates insulation in both frames.

SSW381



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 10mm **masta**shield

mastashield can be substituted with **water**shield
fireshield can be substituted with **multi**shield or **tru**rock

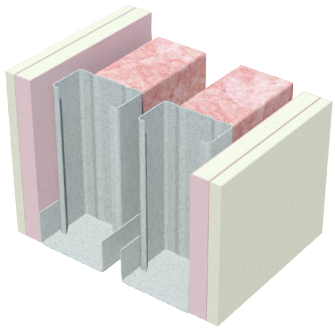
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)				
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 11 kg/m³ R1.8	**2 x** Pink® Partition 75mm 11 kg/m³ R1.8	Report
148 (2 x 64mm studs plus 20mm air gap)	190	46 (39)	56 (46)	57 (48)	60 (**50**)	Day Design 3094-39 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	242	48 (40)	58 (48)	59 (**50**)	62 (**52**)	

SSW382



- 1 layer of 16mm **fire**shield + 10mm **masta**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 10mm **masta**shield

mastashield can be substituted with **water**shield
fireshield can be substituted with **multi**shield or **tru**rock

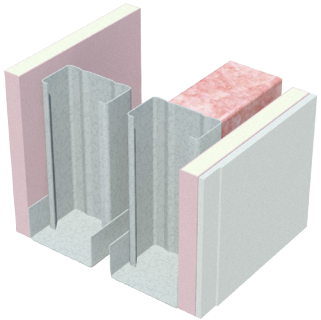
Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	200	50 (43)	61 (49)	64 (**52**)	Day Design 3094-33 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	252	52 (44)	62 (**51**)	-	

SSW534



- 1 layer of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

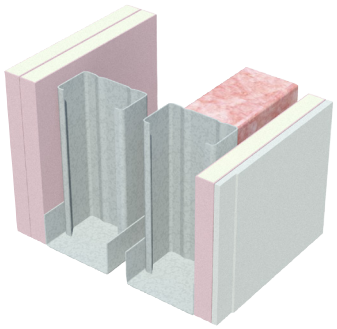
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Day Design 3094-33
148 (2 x 64mm studs plus 20mm air gap)	186	50 (42)	59 (47)	Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	238	51 (43)	59 (49)	Use Pink® Partition 75mm 11 kg/m³ R1.8 to achieve 59 (**50**)

SSW535



- 2 layers of 16mm **fire**shield
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

Fire Resistance Level

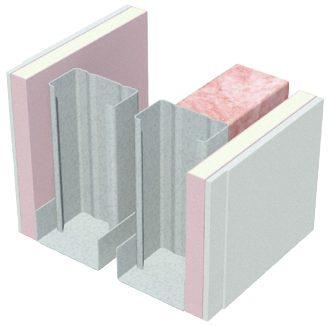
-/120/120 and **60/60/60** rated from both sides

Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	202	55 (47)	65 (**52**)	Day Design 3094-33 Note: Impact sound Resistant - Discontinuous Construction
200 (2 x 64mm studs plus 72mm air gap)	254	57 (48)	66 (**55**)	

'2 x' indicates insulation in both frames.

SSW536



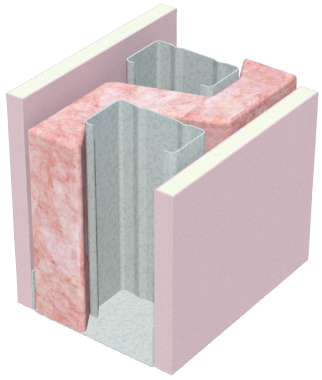
- 1 layer of 16mm **fire**shield + 6mm Villaboard™
- Steel stud framing at maximum 600mm centres
- Minimum 20mm air gap
- Steel stud framing at maximum 600mm centres
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

Fire Resistance Level
-/120/120 and **60/60/60**
rated from both sides
Report FC13921

Cavity Size (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
148 (2 x 64mm studs plus 20mm air gap)	192	54 (46)	64 (**51**)	Day Design 3094-33
200 (2 x 64mm studs plus 72mm air gap)	244	56 (47)	65 (**54**)	Note: Impact sound Resistant - Discontinuous Construction

SSW320



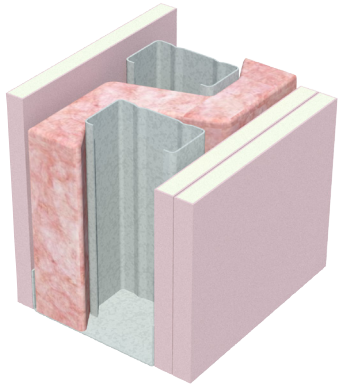
- 1 layer of 13mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/60/60 and **30/30/30**
rated from both sides
Report FC13921

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	118	38 (30)	47 (36)	50 (41)[1]	Day Design 3094-33 [1]TL554-18
150	176	39 (30)	48 (39)	-	Note: Impact sound Resistant

SSW321



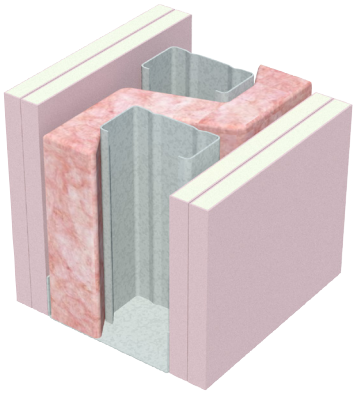
- 1 layer of 13mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/90/90 and **30/30/30**
rated from both sides
Report FC13921

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)			
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 14kg/m³ R1.9	Report
92	131	43 (34)	51 (43)	56 (46)[1]	Day Design 3094-33 [1]TL554-19
150	189	45 (35)	52 (46)	-	Note: Impact sound Resistant

SSW322



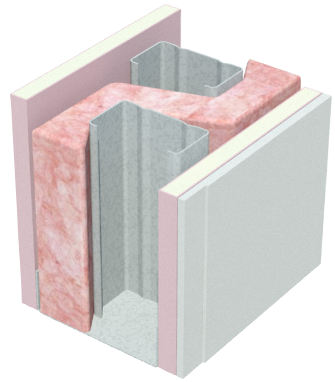
- 2 layers of 13mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/120/120 and **90/90/90**
rated from both sides
Report FC13921

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report
92	144	47 (40)	58 (**50**)	Day Design 3094-33
150	202	49 (41)	58 (**52**)	Note: Impact sound Resistant

SSW520



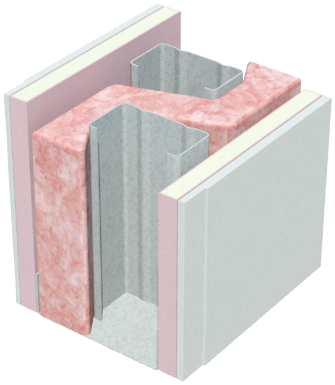
- 1 layer of 13mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

Fire Resistance Level
-/60/60 and **30/30/30** rated from both sides
Report FC13921

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	124	43 (34)	51 (43)	
150	182	45 (35)	53 (46)	

SSW522



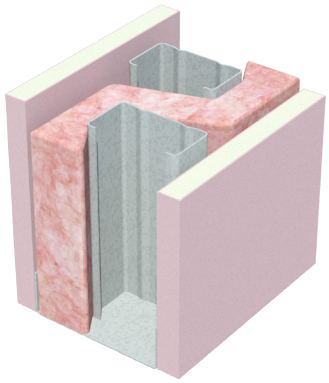
- 1 layer of 13mm **fire**shield + 6mm Villaboard™
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 13mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

Fire Resistance Level
-/90/90 and **30/30/30** rated from both sides
Report FC13921

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	130	47 (37)	56 (48)	
150	188	49 (39)	57 (**51**)	

SSW325



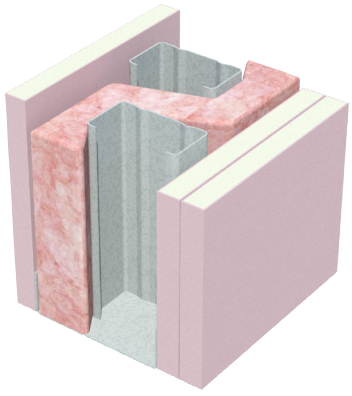
- 1 layer of 16mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/90/90 and **60/60/60** rated from both sides using Glasswool insulation
-/60/60 and **60/60/60** rated from both sides using either polyester insulation or no insulation
Report FC13921

Track Width (mm)	Width (mm)	Sound Insulation Rw (Rw + Ctr)				
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	**2 x** Pink® Partition 50mm 11kg/m³ R1.2	Pink® Partition 75mm 11kg/m³ R1.8	Reports Day Design 3094-33, 5008-8 [1]TL510b Note: Impact sound Resistant
92	124	40 (32)	48 (41)	52 (44)[1]	50 (42)	
150	182	42 (33)	49 (44)	-	-	

SSW326



- 1 layer of 16mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 16mm **fire**shield

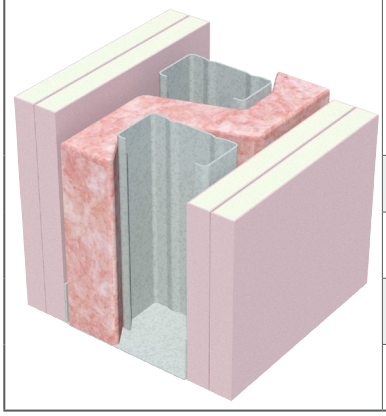
fireshield can be substituted with **multi**shield or **tru**rock

Fire Resistance Level
-/120/120 and **60/60/60** rated from both sides
Report FC13921

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	140	45 (36)	52 (46)	
150	198	47 (38)	53 (48)	

'2 x' indicates insulation in both frames

SSW327



- 2 layers of 16mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 2 layers of 16mm **fire**shield

fireshield can be substituted with **multi**shield or **tru**rock

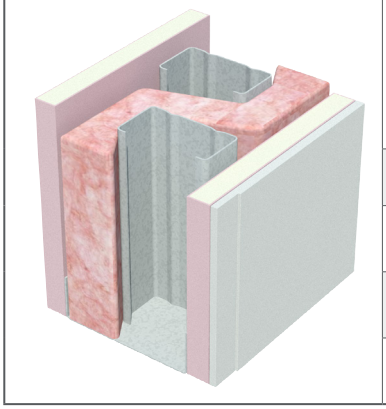
Fire Resistance Level

-/120/120 and **120/120/120** rated from both sides

Report FC13921

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	156	49 (42)	58 (**52**)	
150	214	51 (44)	59 (**53**)	

SSW524



- 1 layer of 16mm **fire**shield
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

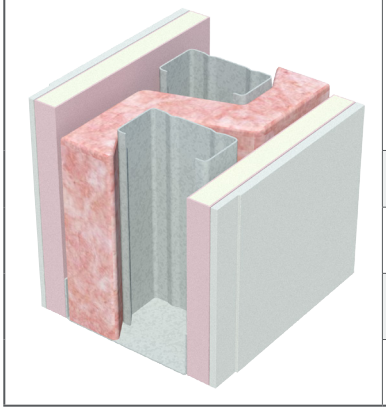
Fire Resistance Level

-/90/90 and **60/60/60** rated from both sides

Report FC13921

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	130	44 (35)	52 (45)	
150	188	46 (37)	53 (48)	

SSW526



- 1 layer of 16mm **fire**shield + 6mm Villaboard™
- Staggered steel studs at maximum 600mm centres (300mm staggered)
- 1 layer of 16mm **fire**shield + 6mm Villaboard™

fireshield can be substituted with **multi**shield or **tru**rock
Order of wall linings can be reversed

Fire Resistance Level

-/120/120 and **60/60/60** rated from both sides

Report FC13921

Track Width (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)		
		No insulation	Pink® Partition 50mm 11kg/m³ R1.2	Report Day Design 3094-33 Note: Impact sound Resistant
92	136	48 (41)	59 (**51**)	
150	194	50 (42)	59 (**53**)	

General Requirements

	Non-fire Rated	Fire Rated
Install control joints in steel framed walls: > With plasterboard at 12m maximum intervals > With fibre cement at 9m maximum intervals for steel framing < 0.8mm BMT > With fibre cement at 6m maximum intervals for steel framing > 0.8mm BMT > With tiles at 4.8m maximum intervals (plasterboard or fibre cement) > At all control joints in the structure > At any change in the substrate > At the floor line in stairwells.	✓	✓
Only joint the face layer. As a minimum, use paper tape with any Siniat jointing compound applied in one or two coats to the thickness of two coats. Alternatively, use **bindex** fire and acoustic sealant according to the Product Data Sheet.		✓
Use approved fire rated penetration details. fire penetrations may require fire collars or other devices to maintain fire performance.		✓
Use **bindex** fire and acoustic sealant on all gaps and around perimeter.		✓
Attach all fixtures to studs or noggings/blocking. Wall anchors must not be fixed to the plasterboard of fire rated walls.		✓
Structural steel members in wall cavities have the Structural Adequacy component of the system's FRL.		✓
Wall systems with a Structural Adequacy component to their FRL may be built with any steel framing provided it is designed according to the relevant Australian Standards, has a minimum 51mm cavity and maximum 600mm horizontal or vertical framing centres for the fixing of linings.		✓

For acceptable modifications or variations to fire rated systems, refer to Section 2.3 fire Resistance

Framing

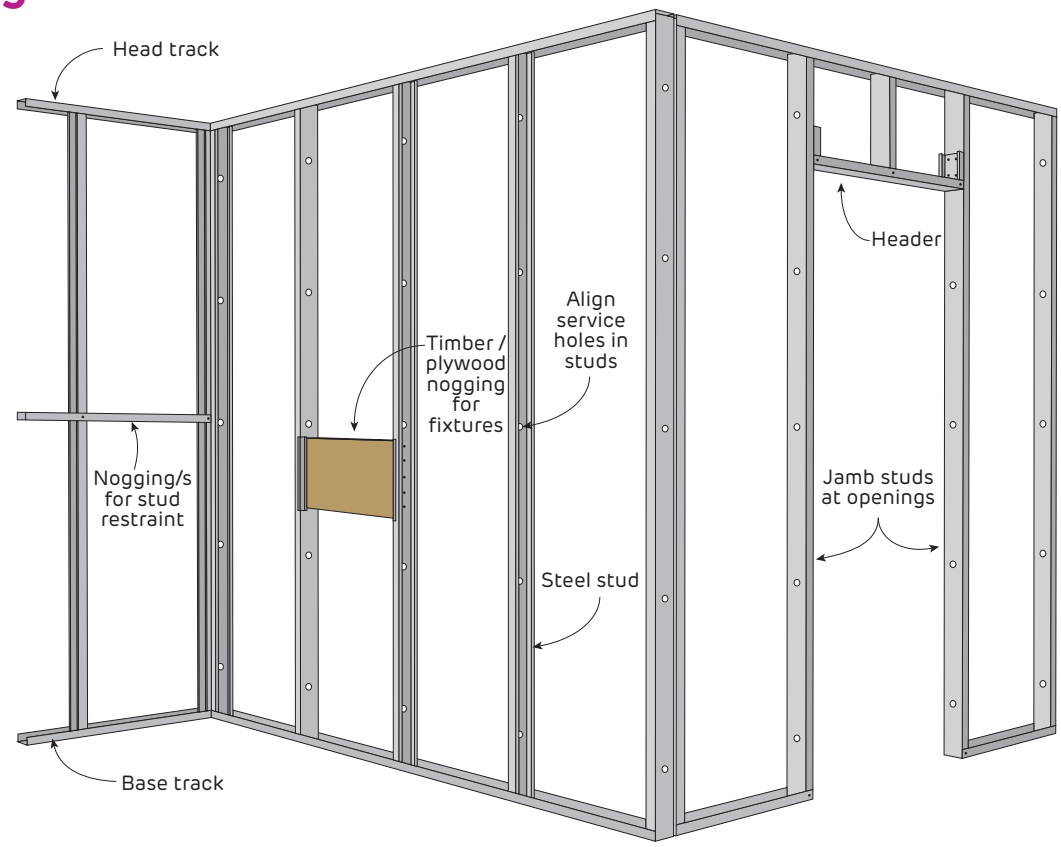


FIGURE 1 Internal Steel Frame Wall Layout

	Non-fire Rated	Fire Rated
Use a Deflection Head Track if soffit movement of up to 20mm is expected. For higher requirements contact Siniat. Refer to Construction Details for clearances.	✓	✓
Framing members as per framing table or structural design up to 600mm maximum spacing.	✓	✓
Face studs in the same direction if possible, to allow easier fastening of wall lining. However, installation of some services may require the studs to be positioned in opposite directions. Refer to Construction Details.	✓	✓
Twist studs into tracks and push studs down completely into bottom track.	✓	✓

Table 1 Maximum Head and Base Track Anchor Spacing

Stud Spacing (mm)	Maximum Anchor Spacing (mm)
600	600
450	600
400	600
300	450
200	300

1. Additional anchors 100mm maximum from track ends.
2. 150mm studs require 2 anchors across width.

> Noggings are permitted to assist the fixing of services. Copper Chromium Arsenate (CCA) treated timber must not be used.

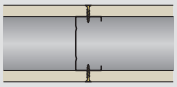
> Plumbing and electrical services must not protrude beyond the face of the studs.

Siniat Internal Wind Load Calculator

Refer to Section 2.3 for assistance determining the relevant internal wind pressures for a specific project. Or use the Siniat Internal Wind Load Calculator by clicking on the link or by using your phone's camera on the QR code.

Table 2 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.39
					Serviceability pressure W_S (kPa)		0.25
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
51 x 0.5	600	2740	2840	2980	2310	2380	2490
	450	3070	3190	3340	2580	2670	2780
	400	3210	3340	3510	2700	2790	2910
	300	3580	3730	3930	3010	3120	3260
64 x 0.5	600	3330	3440	3580	2790	2870	2970
	450	3730	3870	4040	3130	3220	3340
	400	3900	4050	4240	3270	3380	3500
	300	4310	4500	4730	3640	3770	3930
64 x 0.75	600	3670	3770	3900	3100	3170	3260
	450	4080	4220	4380	3450	3540	3650
	400	4260	4410	4580	3610	3710	3820
	300	4690	4870	5080	4000	4120	4260
64 x 1.15	600	4090	4190	4310	3480	3550	3630
	450	4540	4660	4810	3870	3950	4050
	400	4720	4860	5020	4030	4120	4230
	300	5190	5350	5550	4450	4560	4700
76 x 0.55	600	3970	4100	4260	3330	3410	3520
	450	4430	4600	4790	3720	3830	3960
	400	4620	4800	5010	3890	4010	4150
	300	5070	5290 (0.7)	5550 (0.7)	4300	4460	4640
76 x 0.75	600	4310	4430	4570	3640	3720	3810
	450	4780	4940	5120	4050	4150	4280
	400	4980	5150	5350	4220	4340	4470
	300	5450	5660	5900	4660	4800	4970
76 x 1.15	600	4750	4870	5000	4040	4120	4210
	450	5250	5400	5570	4480	4580	4690
	400	5460	5620	5810	4660	4770	4900
	300	5970	6160	6390	5130	5260	5420
92 x 0.55	600	4740	4900	4950	3970	4070	4190
	450	5250 (0.7)	5460 (0.7)	5690 (0.7)	4420	4560	4720
	400	5460 (0.7)	5680 (0.7)	5940 (0.7)	4610	4760	4940
	300	5950 (0.7)	6210 (0.7)	6520 (0.7)	5060	5250 (0.7)	5470 (0.7)
92 x 0.75	600	5060	5220	5390	4270	4370	4480
	450	5590	5780	6010	4740	4870	5020
	400	5800	6010	6260	4930	5080	5250
	300	6320	6560	6860	5410	5590	5800
92 x 1.15	600	5590	5740	5910	4760	4850	4960
	450	6150	6330	6550	5260	5380	5530
	400	6380	6580	6810	5460	5600	5760
	300	6940	7170	7370	5980	6140	6340
150 x 0.75	600	7580	7580	7580	6600	6800	7030
	450	8060 (1.15)	8280 (1.15)	8540 (1.15)	7200	7380	7570
	400	8240 (1.15)	8480 (1.15)	8740 (1.15)	7380	7560	7770
	300	8700 (1.15)	8940 (1.15)	9230 (1.15)	7800	7990	8240 (1.15)
150 x 1.15	600	8100	8280	8470	7230	7370	7520
	450	8600	8790	9020	7700	7860	8040
	400	8800	9010	9240	7900	8060	8250
	300	9310	9520	9770	8370	8550	8750

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 8800	1
8800 - 9770	2

Concrete Anchor Table

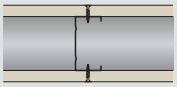
Wall Height (mm)	Anchor
0 - 9770	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
9. Serviceability wind pressure taken as 65% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 3 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.54
			Serviceability pressure W_S (kPa)	0.35

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	2370	2450	2560	2010	2070	2160
	450	2660	2750	2860	2250	2310	2400
	400	2780	2880	3000	2350	2420	2510
	300	3100	3220	3360	2620	2700	2800
64 x 0.5	600	2850	2850	2850	2420	2480	2560
	450	3220	3320	3450	2710	2780	2870
	400	3370	3480	3620	2840	2910	3010
	300	3660	3880 (0.7)	4050 (0.7)	3160	3260	3370
64 x 0.75	600	3190	3260	3360	2700	2760	2820
	450	3550	3650	3760	3010	3080	3160
	400	3710	3820	3940	3150	3220	3300
	300	4110	4240	4390	3500	3580	3690
64 x 1.15	600	3580	3650	3730	3050	3100	3160
	450	3970	4060	4170	3390	3450	3520
	400	4140	4240	4360	3540	3600	3680
	300	4570	4690	4830	3910	4000	4100
76 x 0.55	600	3430	3520	3580	2890	2950	3030
	450	3830 (0.7)	3950 (0.7)	4090 (0.7)	3230	3310	3400
	400	4010 (0.7)	4140 (0.7)	4290 (0.7)	3380	3460	3570
	300	4430 (0.7)	4590 (0.7)	4780 (0.7)	3660	3860 (0.7)	3990 (0.7)
76 x 0.75	600	3740	3830	3930	3170	3230	3300
	450	4170	4280	4410	3530	3610	3690
	400	4340	4470	4610	3690	3770	3870
	300	4780	4940	5120	4080	4190	4310
76 x 1.15	600	4150	4230	4330	3540	3590	3660
	450	4600	4710	4830	3930	4000	4080
	400	4790	4910	5050	4100	4170	4270
	300	5260	5410	5580	4520	4620	4730
92 x 0.55	600	3580	3580	3580	3430	3510	3580
	450	4550 (0.7)	4700 (0.7)	4770 (0.7)	3840 (0.7)	3930 (0.7)	4040 (0.7)
	400	4740 (0.7)	4910 (0.7)	5090 (0.7)	4010 (0.7)	4110 (0.7)	4240 (0.7)
	300	5210 (0.7)	5410 (0.7)	5640 (0.7)	4430 (0.7)	4560 (0.7)	4720 (0.7)
92 x 0.75	600	4390	4500	4620	3710	3780	3860
	450	4870	5010	5180	4130	4230	4330
	400	5070	5230	5410	4310	4410	4530
	300	5550	5740	5970 (1.15)	4750	4880	5030
92 x 1.15	600	4890	4990	5110	4170	4230	4310
	450	5400	5530	5690	4610	4700	4800
	400	5610	5760	5930	4800	4900	5020
	300	6130	6310	6510	5280	5400	5540
150 x 0.75	600	5470	5470	5470	5470	5470	5470
	450	7300 (1.15)	7300 (1.15)	7300 (1.15)	6320 (1.15)	6500 (1.15)	6710 (1.15)
	400	7520 (1.15)	7710 (1.15)	7930 (1.15)	6550 (1.15)	6750 (1.15)	6980 (1.15)
	300	7950 (1.15)	8160 (1.15)	8400 (1.15)	7110 (1.15)	7300 (1.15)	7490 (1.15)
150 x 1.15	600	7370	7520	7670	6360	6500	6650
	450	7850	8010	8200	6970	7140	7300
	400	8040	8210	8410	7210	7350	7500
	300	8530	8710	8920	7660	7810	7980

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 8800	1
8800 - 8920	2

Concrete Anchor Table

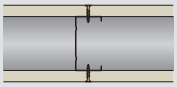
Wall Height (mm)	Anchor
0 - 8920	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
9. Serviceability wind pressure taken as 65% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 4 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.70
					Serviceability pressure W_S (kPa)		0.45
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
51 x 0.5	600	2140	2210	2270	1820	1870	1950
	450	2390	2460	2560	2030	2080	2160
	400	2500	2580	2680	2120	2180	2250
	300	2790	2820	3000 (0.7)	2370	2430	2510
64 x 0.5	600	2200	2200	2200	2190	2200	2200
	450	2890 (0.7)	2930 (0.7)	2930 (0.7)	2440	2500	2570
	400	3030 (0.7)	3110 (0.7)	3220 (0.7)	2560	2620	2690
	300	3370 (0.7)	3480 (0.7)	3610 (0.7)	2850 (0.7)	2930 (0.7)	3010 (0.7)
64 x 0.75	600	2880	2940	3010	2450	2490	2550
	450	3210	3280	3370	2730	2780	2840
	400	3350	3430	3530	2850	2900	2970
	300	3720	3820	3940	3170	3240	3320
64 x 1.15	600	3240	3300	3370	2770	2810	2860
	450	3600	3670	3750	3080	3130	3180
	400	3760	3830	3920	3210	3270	3330
	300	4150	4250	4360	3560	3620	3700
76 x 0.55	600	2760	2760	2760	2600	2650	2710
	450	3450 (0.7)	3540 (0.7)	3640 (0.7)	2910 (0.7)	2970 (0.7)	3040 (0.7)
	400	3600 (0.7)	3700 (0.7)	3820 (0.7)	3040 (0.7)	3110 (0.7)	3190 (0.7)
	300	3990 (0.7)	4120 (0.7)	4270 (0.7)	3390 (0.7)	3470 (0.7)	3570 (0.7)
76 x 0.75	600	3370	3440	3520	2870	2910	2970
	450	3760	3850	3950	3190	3250	3320
	400	3920	4020	4130	3340	3400	3480
	300	4330	4450	4600 (1.15)	3700	3780	3880
76 x 1.15	600	3760	3820	3900	3210	3250	3310
	450	4170	4250	4350	3570	3620	3680
	400	4350	4440	4550	3720	3780	3850
	300	4790	4900	5040	4110	4190	4280
92 x 0.55	600	2760	2760	2760	2760	2760	2760
	450	3680 (0.7)	3680 (0.7)	3680 (0.7)	3450 (0.7)	3530 (0.7)	3610 (0.7)
	400	4140 (0.7)	4140 (0.7)	4140 (0.7)	3610 (0.7)	3690 (0.7)	3790 (0.7)
	300	4450 (0.7)	4450 (0.7)	4450 (0.7)	4000 (0.7)	4110 (0.7)	4230 (0.7)
92 x 0.75	600	3960	4040	4130	3350	3410	3470
	450	4400	4450	4630 (1.15)	3730	3810	3890
	400	4580 (1.15)	4710 (1.15)	4850 (1.15)	3900	3980	4070
	300	5040 (1.15)	5190 (1.15)	5370 (1.15)	4310	4410	4530 (1.15)
92 x 1.15	600	4430	4510	4590	3780	3830	3890
	450	4900	5000	5120	4190	4260	4330
	400	5100	5210	5340	4360	4440	4530
	300	5590	5730	5900	4800	4900	5020
150 x 0.75	600	4220	4220	4220	4220	4220	4220
	450	5630 (1.15)	5630 (1.15)	5630 (1.15)	5630 (1.15)	5630 (1.15)	5630 (1.15)
	400	6330 (1.15)	6330 (1.15)	6330 (1.15)	5940 (1.15)	6100 (1.15)	6280 (1.15)
	300	7430 (1.15)	7620 (1.15)	7830 (1.15)	6470 (1.15)	6670 (1.15)	6890 (1.15)
150 x 1.15	600	6750	6920	7100	5770	5880	5990
	450	7330	7470	7630	6340	6480	6630
	400	7520	7670	7830	6580	6730	6900
	300	7980	8140	8330	7160	7300	7450

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 8330	1

Concrete Anchor Table

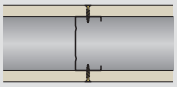
Wall Height (mm)	Anchor
0 - 8330	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
9. Serviceability wind pressure taken as 65% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 5 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.59
			Serviceability pressure W_S (kPa)	0.25

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	2690	2690	2690	2310	2380	2490
	450	3070	3190	3340	2580	2670	2780
	400	3210	3310	3510 (0.7)	2700	2790	2910
	300	3350	3730 (0.7)	3930 (0.7)	3010	3120	3260
64 x 0.5	600	2610	2610	2610	2610	2610	2610
	450	3480 (0.7)	3480 (0.7)	3480 (0.7)	3130	3220	3340
	400	3900 (0.7)	3910 (0.7)	3910 (0.7)	3270	3380 (0.7)	3500 (0.7)
	300	4310 (0.7)	4500 (0.7)	4730 (0.7)	3640 (0.7)	3770 (0.7)	3930 (0.7)
64 x 0.75	600	3670	3770	3900	3100	3170	3260
	450	4080	4220	4380	3450	3540	3650
	400	4260	4410	4580	3610	3710	3820
	300	4690	4870	5080	4000	4120	4260
64 x 1.15	600	4090	4190	4310	3480	3550	3630
	450	4540	4660	4810	3870	3950	4050
	400	4720	4860	5020	4030	4120	4230
	300	5190	5350	5550	4450	4560	4700
76 x 0.55	600	3070	3070	3070	3070	3070	3070
	450	4100 (0.7)	4100 (0.7)	4100 (0.7)	3720 (0.7)	3830 (0.7)	3960 (0.7)
	400	4610 (0.7)	4610 (0.7)	4610 (0.7)	3890 (0.7)	4010 (0.7)	4150 (0.7)
	300	5070 (0.7)	5290 (1.15)	5550 (1.15)	4300 (0.7)	4460 (0.7)	4640 (0.7)
76 x 0.75	600	4310	4430	4570	3640	3720	3810
	450	4780	4940	5120	4050	4150	4280
	400	4980	5150	5280	4220	4340	4470
	300	5450 (1.15)	5660 (1.15)	5900 (1.15)	4660	4800	4970
76 x 1.15	600	4750	4870	5000	4040	4120	4210
	450	5250	5400	5570	4480	4580	4690
	400	5460	5620	5810	4660	4770	4900
	300	5970	6160	6390	5130	5260	5420
92 x 0.55	600	3120	3120	3120	3120	3120	3120
	450	4160 (0.7)	4160 (0.7)	4160 (0.7)	4160 (0.7)	4160 (0.7)	4160 (0.7)
	400	4680 (0.7)	4680 (0.7)	4680 (0.7)	4610 (0.7)	4680 (0.7)	4680 (0.7)
	300	5280 (0.7)	5280 (0.7)	5280 (0.7)	5060 (0.7)	5250 (0.7)	5280 (0.7)
92 x 0.75	600	5060	5220	5390 (1.15)	4270	4370	4480
	450	5590 (1.15)	5780 (1.15)	6010 (1.15)	4740	4870	5020
	400	5800 (1.15)	6010 (1.15)	6260 (1.15)	4930	5080	5250
	300	6320 (1.15)	6560 (1.15)	6860 (1.15)	5410 (1.15)	5590 (1.15)	5800 (1.15)
92 x 1.15	600	5590	5740	5910	4760	4850	4960
	450	6150	6330	6550	5260	5380	5530
	400	6380	6580	6810	5460	5600	5760
	300	6940	7170	7370	5980	6140	6340
150 x 0.75	600	5010	5010	5010	5010	5010	5010
	450	6680 (1.15)	6680 (1.15)	6680 (1.15)	6680 (1.15)	6680 (1.15)	6680 (1.15)
	400	7510 (1.15)	7510 (1.15)	7510 (1.15)	7380 (1.15)	7510 (1.15)	7510 (1.15)
	300	8700 (1.15)	8940 (1.15)	9230 (1.15)	7800 (1.15)	8010 (1.15)	8240 (1.15)
150 x 1.15	600	8100	8280	8470	7230	7370	7520
	450	8600	8790	9020	7700	7860	8040
	400	8800	9010	9240	7900	8060	8250
	300	9310	9520	9770	8370	8550	8750

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 8800	1
8800 - 9770	2

Concrete Anchor Table

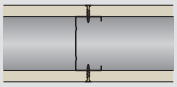
Wall Height (mm)	Anchor
0 - 9770	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
9. Serviceability wind pressure taken as 42% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 6 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.83
					Serviceability pressure W_S (kPa)		0.35
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
51 x 0.5	600	1910	1910	1910	1910	1910	1910
	450	2550 (0.7)	2550 (0.7)	2550 (0.7)	2250	2310	2400 (0.7)
	400	2780 (0.7)	2870 (0.7)	2870 (0.7)	2350 (0.7)	2420 (0.7)	2510 (0.7)
	300	3100 (0.7)	3220 (0.7)	3360 (0.7)	2620 (0.7)	2700 (0.7)	2800 (0.7)
64 x 0.5	600	1850	1850	1850	1850	1850	1850
	450	2470 (0.7)	2470 (0.7)	2470 (0.7)	2470 (0.7)	2470 (0.7)	2470 (0.7)
	400	2780 (0.7)	2780 (0.7)	2780 (0.7)	2780 (0.7)	2780 (0.7)	2780 (0.7)
	300	3710 (0.7)	3710 (0.7)	3710 (0.7)	3160 (0.7)	3260 (0.7)	3370 (0.7)
64 x 0.75	600	3190	3260	3360	2700	2760	2820
	450	3550	3650	3760 (1.15)	3010	3080	3160
	400	3710	3820 (1.15)	3940 (1.15)	3150	3220	3300
	300	4110 (1.15)	4240 (1.15)	4390 (1.15)	3500	3580	3690
64 x 1.15	600	3580	3650	3730	3050	3100	3160
	450	3970	4060	4170	3390	3450	3520
	400	4140	4240	4360	3540	3600	3680
	300	4570	4690	4830	3910	4000	4100
76 x 0.55	600	2180	2180	2180	2180	2180	2180
	450	2910 (0.7)	2910 (0.7)	2910 (0.7)	2910 (0.7)	2910 (0.7)	2910 (0.7)
	400	3280 (0.7)	3280 (0.7)	3280 (0.7)	3280 (0.7)	3280 (0.7)	3280 (0.7)
	300	4370 (1.15)	4370 (1.15)	4370 (1.15)	3750 (1.15)	3860 (1.15)	3990 (1.15)
76 x 0.75	600	3740	3830 (1.15)	3930 (1.15)	3170	3230	3300
	450	4170 (1.15)	4280 (1.15)	4410 (1.15)	3530	3610	3690
	400	4340 (1.15)	4470 (1.15)	4610 (1.15)	3690	3770 (1.15)	3870 (1.15)
	300	4780 (1.15)	4940 (1.15)	5120 (1.15)	4080 (1.15)	4190 (1.15)	4310 (1.15)
76 x 1.15	600	4150	4230	4330	3540	3590	3660
	450	4600	4710	4830	3930	4000	4080
	400	4790	4910	5050	4100	4170	4270
	300	5260	5410	5580	4520	4620	4730
92 x 0.55	600	2220	2220	2220	2220	2220	2220
	450	2960 (0.7)	2960 (0.7)	2960 (0.7)	2960 (0.7)	2960 (0.7)	2960 (0.7)
	400	3330 (0.7)	3330 (0.7)	3330 (0.7)	3330 (0.7)	3330 (0.7)	3330 (0.7)
	300	4440 (1.15)	4440 (1.15)	4440 (1.15)	4430 (1.15)	4440 (1.15)	4440 (1.15)
92 x 0.75	600	3930 (1.15)	3930 (1.15)	3930 (1.15)	3710	3780 (1.15)	3860 (1.15)
	450	4870 (1.15)	5010 (1.15)	5180 (1.15)	4130 (1.15)	4230 (1.15)	4330 (1.15)
	400	5070 (1.15)	5230 (1.15)	5410 (1.15)	4310 (1.15)	4410 (1.15)	4530 (1.15)
	300	5550 (1.15)	5740 (1.15)	5970 (1.15)	4750 (1.15)	4880 (1.15)	5030 (1.15)
92 x 1.15	600	4890	4990	5110	4170	4230	4310
	450	5400	5530	5690	4610	4700	4800
	400	5610	5760	5930	4800	4900	5020
	300	6130	6310	6510	5280	5400	5540
150 x 0.75	600	3560	3560	3560	3560	3560	3560
	450	4740 (1.15)	4740 (1.15)	4740 (1.15)	4740 (1.15)	4740 (1.15)	4740 (1.15)
	400	5340 (1.15)	5340 (1.15)	5340 (1.15)	5340 (1.15)	5340 (1.15)	5340 (1.15)
	300	7120 (1.15)	7120 (1.15)	7120 (1.15)	7110 (1.15)	7120 (1.15)	7120 (1.15)
150 x 1.15	600	6210	6210	6210	6210	6210	6210
	450	7850	8010	8200	6970	7140	7300
	400	8040	8210	8410	7210	7350	7500
	300	8530	8710	8920	7660	7810	7980

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 8800	1
8800 - 8920	2

Concrete Anchor Table

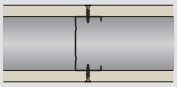
Wall Height (mm)	Anchor
0 - 8920	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
9. Serviceability wind pressure taken as 42% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 7 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on both sides		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	1.07
			Serviceability pressure W_S (kPa)	0.45

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	1480	1480	1480	1480	1480	1480
	450	1980 (0.7)	1980 (0.7)	1980 (0.7)	1980 (0.7)	1980 (0.7)	1980 (0.7)
	400	2220 (0.7)	2220 (0.7)	2220 (0.7)	2120 (0.7)	2180 (0.7)	2220 (0.7)
	300	2790 (0.7)	2890 (0.7)	2970 (1.15)	2370 (0.7)	2430 (0.7)	2510 (0.7)
64 x 0.5	600	1430	1430	1430	1430	1430	1430
	450	1910 (0.7)	1910 (0.7)	1910 (0.7)	1910 (0.7)	1910 (0.7)	1910 (0.7)
	400	2150 (0.7)	2150 (0.7)	2150 (0.7)	2150 (0.7)	2150 (0.7)	2150 (0.7)
	300	2870 (0.7)	2870 (0.7)	2870 (0.7)	2850 (0.7)	2870 (0.7)	2870 (0.7)
64 x 0.75	600	2880	2940 (1.15)	3010 (1.15)	2450	2490	2550
	450	3210 (1.15)	3280 (1.15)	3370 (1.15)	2730	2780	2840
	400	3350 (1.15)	3430 (1.15)	3530 (1.15)	2850	2900 (1.15)	2970 (1.15)
	300	3720 (1.15)	3820 (1.15)	3940 (1.15)	3170 (1.15)	3240 (1.15)	3320 (1.15)
64 x 1.15	600	3240	3300	3370	2770	2810	2860
	450	3600	3670	3750	3080	3130	3180
	400	3760	3830	3920	3210	3270	3330
	300	4150	4250	4360	3560	3620	3700
76 x 0.55	600	1690	1690	1690	1690	1690	1690
	450	2260 (0.7)	2260 (0.7)	2260 (0.7)	2260 (0.7)	2260 (0.7)	2260 (0.7)
	400	2540 (0.7)	2540 (0.7)	2540 (0.7)	2540 (0.7)	2540 (0.7)	2540 (0.7)
	300	3390 (1.15)	3390 (1.15)	3390 (1.15)	3390 (1.15)	3390 (1.15)	3390 (1.15)
76 x 0.75	600	3050 (1.15)	3050 (1.15)	3050 (1.15)	2870	2910 (1.15)	2970 (1.15)
	450	3760 (1.15)	3850 (1.15)	3950 (1.15)	3190 (1.15)	3250 (1.15)	3320 (1.15)
	400	3920 (1.15)	4020 (1.15)	4130 (1.15)	3340 (1.15)	3400 (1.15)	3480 (1.15)
	300	4330 (1.15)	4460 (1.15)	4600 (1.15)	3700 (1.15)	3780 (1.15)	3880 (1.15)
76 x 1.15	600	3760	3820	3900	3210	3250	3310
	450	4170	4250	4350	3570	3620	3680
	400	4350	4440	4550	3720	3780	3850
	300	4790	4900	5040	4110	4190	4280
92 x 0.55	600	1720	1720	1720	1720	1720	1720
	450	2290 (0.7)	2290 (0.7)	2290 (0.7)	2290 (0.7)	2290 (0.7)	2290 (0.7)
	400	2580 (0.7)	2580 (0.7)	2580 (0.7)	2580 (0.7)	2580 (0.7)	2580 (0.7)
	300	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)
92 x 0.75	600	3050 (1.15)	3050 (1.15)	3050 (1.15)	3050 (1.15)	3050 (1.15)	3050 (1.15)
	450	4070 (1.15)	4070 (1.15)	4070 (1.15)	3730 (1.15)	3810 (1.15)	3890 (1.15)
	400	4570 (1.15)	4570 (1.15)	4570 (1.15)	3900 (1.15)	3980 (1.15)	4070 (1.15)
	300	5040 (1.15)	5190 (1.15)	5370 (1.15)	4310 (1.15)	4410 (1.15)	4530 (1.15)
92 x 1.15	600	4430	4510	4590	3780	3830	3890
	450	4900	5000	5120	4190	4260	4330
	400	5100	5210	5340	4360	4440	4530
	300	5590	5730	5900	4800	4900	5020
150 x 0.75	600	2760	2760	2760	2760	2760	2760
	450	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)
	400	4140 (1.15)	4140 (1.15)	4140 (1.15)	4140 (1.15)	4140 (1.15)	4140 (1.15)
	300	5520 (1.15)	5520 (1.15)	5520 (1.15)	5520 (1.15)	5520 (1.15)	5520 (1.15)
150 x 1.15	600	4820	4820	4820	4820	4820	4820
	450	6420	6420	6420	6340	6420	6420
	400	7230	7230	7230	6580	6730	6900
	300	7250	7250	7250	7160	7250	7250

Nogging Table

Wall Height (mm)	No. of Noggings evenly spaced
0 - 4400	0
4400 - 7250	1

Concrete Anchor Table

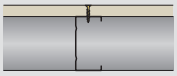
Wall Height (mm)	Anchor
0 - 7250	SA6x60

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
3. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
4. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
5. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
6. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
7. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
8. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
9. Serviceability wind pressure taken as 42% of ultimate, and serviceability deflection limited to either height/240 or height/360.
10. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
11. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

Table 8 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.39
			Serviceability pressure W_S (kPa)	0.25

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	2480	2520	2580	2130	2170	2220
	450	2750	2800	2860	2360	2400	2450
	400	2860	2920	2980	2460	2500	2550
	300	3170	3230	3300	2730	2770	2830
64 x 0.5	600	2960	2990	2990	2540	2580	2620
	450	3280	3330	3390	2820	2860	2900
	400	3420	3470	3540	2940	2980	3030
	300	3780	3840	3920	3250	3300	3360
64 x 0.75	600	3330	3370	3420	2870	2900	2940
	450	3690	3740	3800	3180	3210	3260
	400	3840	3900	3960	3310	3350	3400
	300	4240	4300	4380	3660	3710	3760
64 x 1.15	600	3790	3830	3880	3270	3300	3340
	450	4190	4240	4290	3620	3650	3690
	400	4360	4410	4470	3770	3810	3850
	300	4800	4860	4940	4160	4200	4260
76 x 0.55	600	3490	3490	3490	3010	3040	3080
	450	3870	3930	3990	3330	3370	3420
	400	4030	4090	4160	3470	3520	3570
	300	4450	4520 (0.7)	4600 (0.7)	3840	3890	3950
76 x 0.75	600	3880	3930	3980	3350	3380	3420
	450	4290	4350	4410	3700	3740	3790
	400	4470	4530	4600	3860	3900	3950
	300	4920	4990	5080	4250	4310	4370
76 x 1.15	600	4370	4420	4470	3780	3810	3840
	450	4820	4880	4950	4170	4210	4260
	400	5020	5080	5150	4340	4380	4430
	300	5510	5590	5680	4780	4830	4900
92 x 0.55	600	4050	4050	4050	3540	3580	3620
	450	4560 (0.7)	4560 (0.7)	4560 (0.7)	3920	3970	4020
	400	4750 (0.7)	4780 (0.7)	4780 (0.7)	4090	4140	4200
	300	5220 (0.7)	5310 (0.7)	5320 (0.7)	4500 (0.7)	4570 (0.7)	4640 (0.7)
92 x 0.75	600	4500	4560	4610	3880	3910	3960
	450	4970	5040	5110	4290	4330	4390
	400	5170	5240	5330	4460	4520	4570
	300	5680	5770	5870	4910	4980	5050
92 x 1.15	600	5110	5160	5220	4410	4450	4490
	450	5630	5700	5770	4870	4910	4970
	400	5850	5920	6010	5060	5120	5180
	300	6410	6500	6610	5560	5630	5700
150 x 0.75	600	5680	5680	5680	5680	5680	5680
	450	6600	6600	6600	6430	6520	6600
	400	6860	6860	6860	6680	6770	6860
	300	7490 (1.15)	7490 (1.15)	7490 (1.15)	7270 (1.15)	7350 (1.15)	7440 (1.15)
150 x 1.15	600	7340	7340	7340	6610	6680	6760
	450	8050	8130	8220	7240	7310	7380
	400	8270	8350	8450	7450	7510	7590
	300	8830	8920	9020	7960	8030	8120

Nogging Table

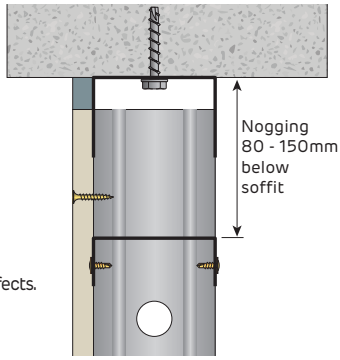
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 8000	3 plus soffit nogging
8000 - 9020	4 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 9020	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

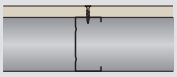
Soffit Nogging



1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
10. Serviceability taken as 65% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

Table 9 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.46
					Serviceability pressure W_S (kPa)		0.3
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
51 x 0.5	600	2320	2360	2410	2000	2030	2070
	450	2570	2610	2670	2210	2240	2290
	400	2680	2720	2780	2300	2340	2380
	300	2960	3010	3080	2550	2590	2640
64 x 0.5	600	2760	2760	2760	2380	2410	2450
	450	3060	3110	3160	2640	2670	2710
	400	3200	3240	3300	2750	2780	2830
	300	3530	3590	3660	3040	3080	3130
64 x 0.75	600	3120	3150	3200	2690	2710	2750
	450	3450	3490	3540	2970	3000	3040
	400	3590	3640	3690	3100	3130	3170
	300	3970	4020	4090	3420	3470	3510
64 x 1.15	600	3550	3580	3620	3070	3090	3120
	450	3920	3960	4010	3390	3420	3450
	400	4080	4130	4180	3530	3560	3600
	300	4500	4550	4620	3890	3930	3980
76 x 0.55	600	3210	3210	3210	2810	2840	2880
	450	3620	3670	3710	3120	3150	3190
	400	3730	3820 (0.7)	3880 (0.7)	3250	3290	3330
	300	4160 (0.7)	4220 (0.7)	4290 (0.7)	3590	3640	3690
76 x 0.75	600	3630	3670	3720	3130	3160	3190
	450	4020	4060	4120	3460	3500	3540
	400	4180	4240	4300	3610	3650	3690
	300	4610	4670	4750	3980	4030	4080
76 x 1.15	600	4090	4130	4170	3540	3560	3590
	450	4520	4570	4620	3910	3940	3980
	400	4700	4760	4820	4070	4100	4150
	300	5170	5240	5310	4480	4530	4580
92 x 0.55	600	3730	3730	3730	3310	3340	3380
	450	4260 (0.7)	4260 (0.7)	4260 (0.7)	3670	3710	3750
	400	4440 (0.7)	4470 (0.7)	4470 (0.7)	3820 (0.7)	3870 (0.7)	3920 (0.7)
	300	4880 (0.7)	4960 (0.7)	5010 (0.7)	4220 (0.7)	4270 (0.7)	4330 (0.7)
92 x 0.75	600	4210	4250	4310	3630	3660	3690
	450	4650	4710	4770	4010	4050	4100
	400	4840	4900	4970	4180	4220	4270
	300	5320	5400	5490	4600	4660	4720
92 x 1.15	600	4780	4830	4880	4130	4160	4200
	450	5270	5330	5400	4560	4600	4650
	400	5480	5550	5620	4740	4790	4840
	300	6020	6090	6180	5220	5280	5340
150 x 0.75	600	5360	5360	5360	5360	5360	5360
	450	6230 (1.15)	6230 (1.15)	6230 (1.15)	6020	6100	6170 (1.15)
	400	6490 (1.15)	6490 (1.15)	6490 (1.15)	6260 (1.15)	6340 (1.15)	6420 (1.15)
	300	7130 (1.15)	7130 (1.15)	7130 (1.15)	6850 (1.15)	6950 (1.15)	7060 (1.15)
150 x 1.15	600	7030	7030	7030	6200	6260	6320
	450	7570	7570	7570	6810	6880	6970
	400	7800	7800	7800	7070	7150	7230
	300	8420	8510	8600	7590	7660	7740

Nogging Table

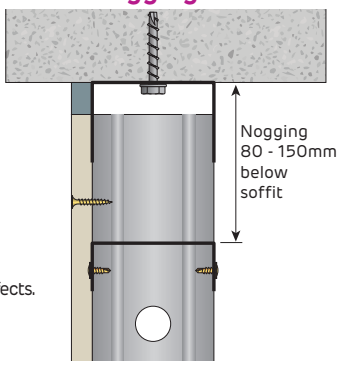
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 8000	3 plus soffit nogging
8000 - 8600	4 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 8600	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

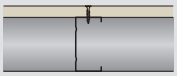
Soffit Nogging



1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
10. Serviceability taken as 65% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

Table 10 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.54
					Serviceability pressure W_S (kPa)		0.35
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
51 x 0.5	600	2190	2220	2250	1890	1920	1960
	450	2420	2460	2510	2090	2120	2160
	400	2530	2570	2620	2180	2210	2250
	300	2800	2840	2900	2410	2440	2490
64 x 0.5	600	2540	2540	2540	2250	2270	2310
	450	2890	2930	2940	2490	2520	2560
	400	3020	3060	3110	2600	2630	2670
	300	3340 (0.7)	3390 (0.7)	3450 (0.7)	2880	2910	2950
64 x 0.75	600	2940	2980	3020	2540	2560	2600
	450	3260	3300	3340	2810	2840	2870
	400	3400	3440	3490	2930	2960	3000
	300	3750	3800	3860	3240	3270	3320
64 x 1.15	600	3360	3390	3420	2900	2920	2950
	450	3710	3750	3790	3210	3230	3270
	400	3860	3900	3950	3340	3370	3400
	300	4260	4310	4370	3690	3720	3760
76 x 0.55	600	2960	2960	2960	2660	2680	2720
	450	3420 (0.7)	3420 (0.7)	3420 (0.7)	2950	2980	3010
	400	3560 (0.7)	3610 (0.7)	3630 (0.7)	3070	3100	3140
	300	3930 (0.7)	3990 (0.7)	4050 (0.7)	3400 (0.7)	3430 (0.7)	3480 (0.7)
76 x 0.75	600	3430	3470	3510	2960	2980	3010
	450	3800	3840	3890	3280	3310	3340
	400	3950	4000	4050	3410	3450	3480
	300	4360	4420	4480	3770	3810	3860
76 x 1.15	600	3870	3900	3940	3350	3370	3400
	450	4280	4320	4360	3700	3730	3760
	400	4450	4500	4550	3850	3880	3920
	300	4900	4960	5020	4240	4280	4330
92 x 0.55	600	3390 (1.15)	3390 (1.15)	3390 (1.15)	3130	3160	3190
	450	3980 (1.15)	3980 (1.15)	3980 (1.15)	3470 (0.7)	3500 (0.7)	3540 (0.7)
	400	4190 (1.15)	4190 (1.15)	4190 (1.15)	3610 (0.7)	3650 (0.7)	3690 (0.7)
	300	4620 (1.15)	4690 (1.15)	4710 (1.15)	3990 (0.7)	4040 (0.7)	4090 (0.7)
92 x 0.75	600	3980	4020	4060	3430	3450	3490
	450	4400	4450	4500	3790	3830	3870
	400	4580	4630	4690	3950	3990	4030
	300	5030	5100	5180	4350	4400	4460
92 x 1.15	600	4520	4560	4610	3910	3930	3960
	450	4990	5040	5100	4320	4350	4390
	400	5190	5250	5310	4490	4530	4570
	300	5700	5770	5850	4940	4990	5050
150 x 0.75	600	5060	5060	5060	5060	5060	5060
	450	5610 (1.15)	5610 (1.15)	5610 (1.15)	5610 (1.15)	5610 (1.15)	5610 (1.15)
	400	6130 (1.15)	6130 (1.15)	6130 (1.15)	5830 (1.15)	5830 (1.15)	6070 (1.15)
	300	6770 (1.15)	6770 (1.15)	6770 (1.15)	6490 (1.15)	6580 (1.15)	6670 (1.15)
150 x 1.15	600	6730	6730	6730	5860	5910	5970
	450	7270	7270	7270	6450	6510	6590
	400	7490	7490	7490	6700	6770	6850
	300	8060	8060	8060	7300	7360	7430

Nogging Table

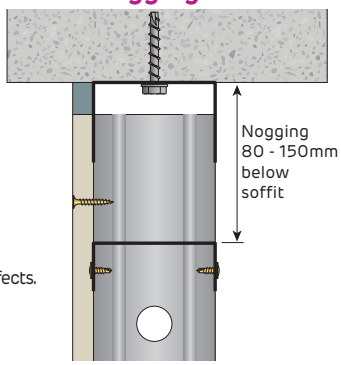
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 8060	3 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 8060	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

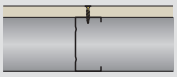
Soffit Nogging



1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
10. Serviceability taken as 65% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

Table 11 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.59
			Serviceability pressure W_S (kPa)	0.25

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	2150	2150	2150	2130	2150	2150
	450	2480	2480	2480	2360	2400	2450
	400	2630	2630	2630	2460	2500	2550
	300	3040 (0.7)	3040 (0.7)	3040 (0.7)	2730	2770	2830
64 x 0.5	600	2430	2430	2430	2430	2430	2430
	450	2810	2810	2810	2810	2810	2810
	400	2980 (0.7)	2980 (0.7)	2980 (0.7)	2940 (0.7)	2980 (0.7)	2980 (0.7)
	300	3440 (0.7)	3440 (0.7)	3440 (0.7)	3250 (0.7)	3300 (0.7)	3360 (0.7)
64 x 0.75	600	3270	3270	3270	2870	2900	2940
	450	3690	3740	3770	3180	3210	3260
	400	3840	3900	3960	3310	3350	3400
	300	4240	4300	4380	3660	3710	3760
64 x 1.15	600	3790	3830	3880	3270	3300	3340
	450	4190	4240	4290	3620	3650	3690
	400	4360	4410	4470	3770	3810	3850
	300	4800	4860	4940	4160	4200	4260
76 x 0.55	600	2830	2830	2830	2830	2830	2830
	450	3270 (0.7)	3270 (0.7)	3270 (0.7)	3270 (0.7)	3270 (0.7)	3270 (0.7)
	400	3470 (0.7)	3470 (0.7)	3470 (0.7)	3470 (0.7)	3470 (0.7)	3470 (0.7)
	300	4010 (0.7)	4010 (0.7)	4010 (0.7)	3840 (0.7)	3890 (0.7)	3950 (0.7)
76 x 0.75	600	3680	3680	3680	3350	3380	3420
	450	4250	4250	4250	3700	3740	3790
	400	4470	4510	4510	3860	3900	3950
	300	4920 (1.15)	4990 (1.15)	5080 (1.15)	4250	4310	4370
76 x 1.15	600	4370	4420	4470	3780	3810	3840
	450	4820	4880	4950	4170	4210	4260
	400	5020	5080	5150	4340	4380	4430
	300	5510	5590	5680	4780	4830	4900
92 x 0.55	600	3100 (1.15)	3100 (1.15)	3100 (1.15)	3100 (1.15)	3100 (1.15)	3100 (1.15)
	450	3800 (1.15)	3800 (1.15)	3800 (1.15)	3800 (1.15)	3800 (1.15)	3800 (1.15)
	400	4030 (1.15)	4030 (1.15)	4030 (1.15)	4030 (1.15)	4030 (1.15)	4030 (1.15)
	300	4540 (1.15)	4540 (1.15)	4540 (1.15)	4500 (1.15)	4540 (1.15)	4540 (1.15)
92 x 0.75	600	4090	4090	4090	3880	3910	3960
	450	4710	4710	4710	4290	4330	4390
	400	4930 (1.15)	4930 (1.15)	4930 (1.15)	4460	4520	4570
	300	5440 (1.15)	5440 (1.15)	5440 (1.15)	4910 (1.15)	4980 (1.15)	5050 (1.15)
92 x 1.15	600	5030	5030	5030	4410	4450	4490
	450	5540	5540	5540	4870	4910	4970
	400	5750	5750	5750	5060	5120	5180
	300	6410	6500	6610	5560	5630	5700
150 x 0.75	600	4890 (1.15)	4890 (1.15)	4890 (1.15)	4890 (1.15)	4890 (1.15)	4890 (1.15)
	450	5440 (1.15)	5440 (1.15)	5440 (1.15)	5440 (1.15)	5440 (1.15)	5440 (1.15)
	400	5660 (1.15)	5660 (1.15)	5660 (1.15)	5660 (1.15)	5660 (1.15)	5660 (1.15)
	300	6580 (1.15)	6580 (1.15)	6580 (1.15)	6580 (1.15)	6580 (1.15)	6580 (1.15)
150 x 1.15	600	6560	6560	6560	6560	6560	6560
	450	7110	7110	7110	7110	7110	7110
	400	7330	7330	7330	7330	7330	7330
	300	7880	7880	7880	7880	7880	7880

Nogging Table

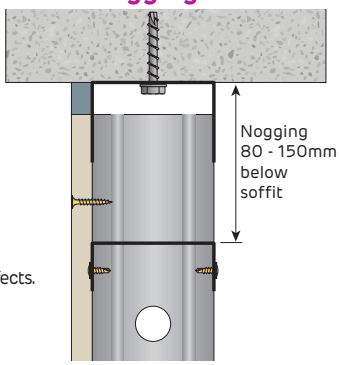
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 7880	3 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 7880	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

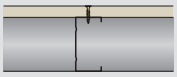
Soffit Nogging



1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
10. Serviceability taken as 42% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

Table 12 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.71
			Serviceability pressure W_S (kPa)	0.3

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	1960	1960	1960	1960	1960	1960
	450	2260	2260	2260	2210	2240	2260
	400	2400	2400	2400	2300	2340	2380
	300	2770 (0.7)	2770 (0.7)	2770 (0.7)	2550 (0.7)	2590 (0.7)	2640 (0.7)
64 x 0.5	600	2220	2220	2220	2220	2220	2220
	450	2560 (0.7)	2560 (0.7)	2560 (0.7)	2560 (0.7)	2560 (0.7)	2560 (0.7)
	400	2720 (0.7)	2720 (0.7)	2720 (0.7)	2720 (0.7)	2720 (0.7)	2720 (0.7)
	300	3140 (0.7)	3140 (0.7)	3140 (0.7)	3040 (0.7)	3080 (0.7)	3130 (0.7)
64 x 0.75	600	2980	2980	2980	2690	2710	2750
	450	3440	3440	3440	2970	3000	3040
	400	3590	3640	3650	3100	3130	3170
	300	3970	4020 (1.15)	4090 (1.15)	3420	3470	3510
64 x 1.15	600	3550	3580	3620	3070	3090	3120
	450	3920	3960	4010	3390	3420	3450
	400	4080	4130	4180	3530	3560	3600
	300	4500	4550	4620	3890	3930	3980
76 x 0.55	600	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)
	450	2980 (1.15)	2980 (1.15)	2980 (1.15)	2980 (1.15)	2980 (1.15)	2980 (1.15)
	400	3160 (1.15)	3160 (1.15)	3160 (1.15)	3160 (1.15)	3160 (1.15)	3160 (1.15)
	300	3660 (1.15)	3660 (1.15)	3660 (1.15)	3590 (1.15)	3640 (1.15)	3660 (1.15)
76 x 0.75	600	3350	3350	3350	3130	3160	3190
	450	3870	3870	3870	3460	3500	3540
	400	4110 (1.15)	4110 (1.15)	4110 (1.15)	3610	3650	3690
	300	4610 (1.15)	4670 (1.15)	4750 (1.15)	3980 (1.15)	4030 (1.15)	4080 (1.15)
76 x 1.15	600	4090	4130	4170	3540	3560	3590
	450	4520	4570	4620	3910	3940	3980
	400	4700	4760	4820	4070	4100	4150
	300	5170	5240	5310	4480	4530	4580
92 x 0.55	600	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)	2580 (1.15)
	450	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)	3440 (1.15)
	400	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)	3680 (1.15)
	300	4210 (1.15)	4210 (1.15)	4210 (1.15)	4210 (1.15)	4210 (1.15)	4210 (1.15)
92 x 0.75	600	3720	3720	3720	3630	3660	3690
	450	4300 (1.15)	4300 (1.15)	4300 (1.15)	4010 (1.15)	4050 (1.15)	4100 (1.15)
	400	4560 (1.15)	4560 (1.15)	4560 (1.15)	4180 (1.15)	4220 (1.15)	4270 (1.15)
	300	5120 (1.15)	5120 (1.15)	5120 (1.15)	4600 (1.15)	4660 (1.15)	4720 (1.15)
92 x 1.15	600	4710	4710	4710	4130	4160	4200
	450	5210	5210	5210	4560	4600	4650
	400	5420	5420	5420	4740	4790	4840
	300	5930	5930	5930	5220	5280	5340
150 x 0.75	600	4310 (1.15)	4310 (1.15)	4310 (1.15)	4310 (1.15)	4310 (1.15)	4310 (1.15)
	450	5090 (1.15)	5090 (1.15)	5090 (1.15)	5090 (1.15)	5090 (1.15)	5090 (1.15)
	400	5310 (1.15)	5310 (1.15)	5310 (1.15)	5310 (1.15)	5310 (1.15)	5310 (1.15)
	300	6170 (1.15)	6170 (1.15)	6170 (1.15)	6170 (1.15)	6170 (1.15)	6170 (1.15)
150 x 1.15	600	6190	6190	6190	6190	6190	6190
	450	6760	6760	6760	6760	6760	6760
	400	6980	6980	6980	6980	6980	6980
	300	7520	7520	7520	7520	7520	7520

Nogging Table

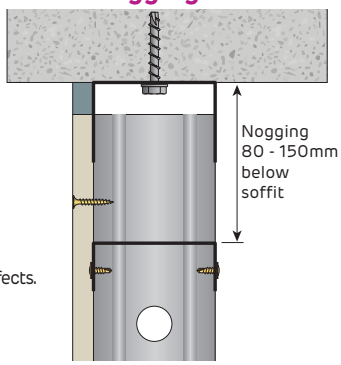
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 7520	3 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 7520	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

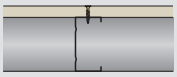
Soffit Nogging



1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures*.
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions*.
10. Serviceability taken as 42% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

Table 13 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Steel stud walls lined full height on one side only		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.83
			Serviceability pressure W_S (kPa)	0.35

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	1810	1810	1810	1810	1810	1810
	450	2090	2090	2090	2090	2090	2090
	400	2220 (0.7)	2220 (0.7)	2220 (0.7)	2180 (0.7)	2210 (0.7)	2220 (0.7)
	300	2570 (0.7)	2570 (0.7)	2570 (0.7)	2410 (0.7)	2440 (0.7)	2490 (0.7)
64 x 0.5	600	1920 (1.15)	1920 (1.15)	1920 (1.15)	1920 (1.15)	1920 (1.15)	1920 (1.15)
	450	2370 (1.15)	2370 (1.15)	2370 (1.15)	2370 (1.15)	2370 (1.15)	2370 (1.15)
	400	2510 (1.15)	2510 (1.15)	2510 (1.15)	2510 (1.15)	2510 (1.15)	2510 (1.15)
	300	2900 (1.15)	2900 (1.15)	2900 (1.15)	2880 (1.15)	2900 (1.15)	2900 (1.15)
64 x 0.75	600	2750	2750	2750	2540	2560	2600
	450	3180	3180	3180	2810	2840	2870
	400	3370	3370	3370	2930	2960	3000
	300	3750 (1.15)	3800 (1.15)	3860 (1.15)	3240	3270	3320
64 x 1.15	600	3360	3390	3420	2900	2920	2950
	450	3710	3750	3790	3210	3230	3270
	400	3860	3900	3950	3340	3370	3400
	300	4260	4310	4370	3690	3720	3760
76 x 0.55	600	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)
	450	2760 (1.15)	2760 (1.15)	2760 (1.15)	2760 (1.15)	2760 (1.15)	2760 (1.15)
	400	2930 (1.15)	2930 (1.15)	2930 (1.15)	2930 (1.15)	2930 (1.15)	2930 (1.15)
	300	3380 (1.15)	3380 (1.15)	3380 (1.15)	3380 (1.15)	3380 (1.15)	3380 (1.15)
76 x 0.75	600	3100	3100	3100	2960	2980	3010
	450	3580 (1.15)	3580 (1.15)	3580 (1.15)	3280	3310	3340
	400	3800 (1.15)	3800 (1.15)	3800 (1.15)	3410 (1.15)	3450 (1.15)	3480 (1.15)
	300	4360 (1.15)	4390 (1.15)	4390 (1.15)	3770 (1.15)	3810 (1.15)	3860 (1.15)
76 x 1.15	600	3870	3900	3940	3350	3370	3400
	450	4280	4320	4360	3700	3730	3760
	400	4450	4500	4550	3850	3880	3920
	300	4900	4960	5020	4240	4280	4330
92 x 0.55	600	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)	2210 (1.15)
	450	2940 (1.15)	2940 (1.15)	2940 (1.15)	2940 (1.15)	2940 (1.15)	2940 (1.15)
	400	3310 (1.15)	3310 (1.15)	3310 (1.15)	3310 (1.15)	3310 (1.15)	3310 (1.15)
	300	3930 (1.15)	3930 (1.15)	3930 (1.15)	3930 (1.15)	3930 (1.15)	3930 (1.15)
92 x 0.75	600	3440 (1.15)	3440 (1.15)	3440 (1.15)	3430 (1.15)	3440 (1.15)	3440 (1.15)
	450	3980 (1.15)	3980 (1.15)	3980 (1.15)	3790 (1.15)	3830 (1.15)	3870 (1.15)
	400	4220 (1.15)	4220 (1.15)	4220 (1.15)	3950 (1.15)	3990 (1.15)	4030 (1.15)
	300	4830 (1.15)	4830 (1.15)	4830 (1.15)	4350 (1.15)	4400 (1.15)	4460 (1.15)
92 x 1.15	600	4440	4440	4440	3910	3930	3960
	450	4940	4940	4940	4320	4350	4390
	400	5140	5140	5140	4490	4530	4570
	300	5650	5650	5650	4940	4990	5050
150 x 0.75	600	3690 (1.15)	3690 (1.15)	3690 (1.15)	3690 (1.15)	3690 (1.15)	3690 (1.15)
	450	4800 (1.15)	4800 (1.15)	4800 (1.15)	4800 (1.15)	4800 (1.15)	4800 (1.15)
	400	5020 (1.15)	5020 (1.15)	5020 (1.15)	5020 (1.15)	5020 (1.15)	5020 (1.15)
	300	5560 (1.15)	5560 (1.15)	5560 (1.15)	5560 (1.15)	5560 (1.15)	5560 (1.15)
150 x 1.15	600	5550	5550	5550	5550	5550	5550
	450	6450	6450	6450	6450	6450	6450
	400	6680	6680	6680	6680	6680	6680
	300	7230	7230	7230	7230	7230	7230

Nogging Table

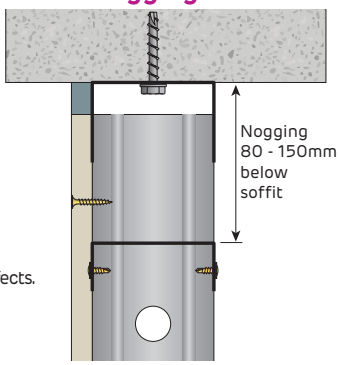
Wall Height (mm)	No. of Noggings evenly spaced
0 - 3000	1 plus soffit nogging
3000 - 6000	2 plus soffit nogging
6000 - 7230	3 plus soffit nogging

Concrete Anchor Table

Wall Height (mm)	Anchor
0 - 7230	SA6x45

1. Concrete 20 MPa minimum. No edge / spacing effects.
2. Anchors at maximum 1.5 x stud spacing up to 600mm maximum, and also 100mm maximum from track ends.
3. 150mm studs require 2 anchors across width.

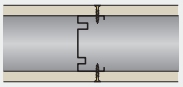
Soffit Nogging

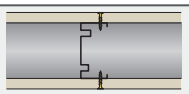


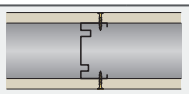
1. Stud frames lined on one side only (including double stud walls) must have an additional soffit nogging installed 80-150mm as shown, unless using a slotted deflection head track.
2. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered.
4. Base and head track must be similar Base Metal Thickness (BMT) as the stud. The head track BMT is stated in brackets next to wall height if a different BMT compared to the stud is required.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection). Screw fix base track to both sides of stud.
6. Contact Siniat or structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 7.2m
8. Calculations based upon a single span and designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
10. Serviceability taken as 42% of ultimate, deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

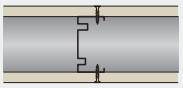
Table 14 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

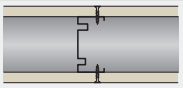
Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Acoustic stud walls lined full height on both sides with 0.55mm BMT Deflection Head Track				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.39
					Serviceability pressure W_S (kPa)		0.25
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
92 x 0.55 Acoustic Stud	600mm	3760	3760	3760	3760	3760	3760
	450mm	4130	4130	4130	4130	4130	4130

Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.39
					Serviceability pressure W_S (kPa)		0.25
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
92 x 0.55 Acoustic Stud	600mm	5010*	5170*	5350*	4220*	4320*	4440*
	450mm	5540*	5740*	5970*	4690*	4820*	4980*

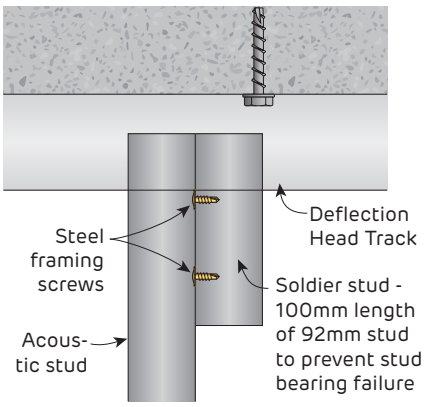
Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.54
					Serviceability pressure W_S (kPa)		0.35
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
92 x 0.55 Acoustic Stud	600mm	4350*	4440*	4440*	3670*	3740*	3820*
	450mm	4440*	4440*	4440*	4090*	4180*	4290*

Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.70
					Serviceability pressure W_S (kPa)		0.45
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
92 x 0.55 Acoustic Stud	600mm	3420*	3420*	3420*	3310*	3370*	3420*
	450mm	3420*	3420*	3420*	3420*	3420*	3420*

Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud				Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)		0.85
					Serviceability pressure W_S (kPa)		0.55
Stud Depth and BMT (mm)	**Maximum Stud Centres (mm)**	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	**13mm**	**16mm**	**10mm**	**13mm**	**16mm**
92 x 0.55 Acoustic Stud	600mm	2820*	2820*	2820*	2820*	2820*	2820*
	450mm	2820*	2820*	2820*	2820*	2820*	2820*

*Soldier Stud at Deflection Head Track and screw fix 0.5mm BMT Base Track to stud

Soldier Stud Detail



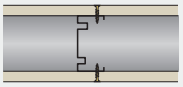
Concrete Anchor Table

Anchor	Anchor Spacing
SA6x45	600mm maximum plus 100mm maximum from track ends

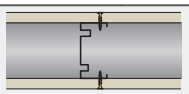
1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Noggings may reduce sound insulation performance.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
4. Base track must be 0.5mm Base Metal Thickness (BMT) or greater. Deflection Head Track BMT is stated in table.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
6. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 6.0m
8. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
10. Serviceability wind pressure taken as 65% of ultimate, and serviceability deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
12. For BCA Building Importance Level 4, please contact Siniat.

Table 15 Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION B

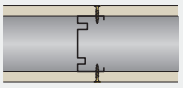
Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

Acoustic stud walls lined full height on both sides with 0.55mm BMT Deflection Head Track		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.59
			Serviceability pressure W_S (kPa)	0.25

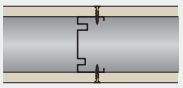
Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
92 x 0.55 Acoustic Stud	600mm	2480	2480	2480	2480	2480	2480
	450mm	2730	2730	2730	2730	2730	2730

Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.59
			Serviceability pressure W_S (kPa)	0.25

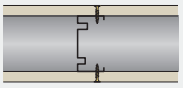
Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
92 x 0.55 Acoustic Stud	600mm	4060*	4060*	4060*	4060*	4060*	4060*
	450mm	4060*	4060*	4060*	4060*	4060*	4060*

Acoustic stud walls lined full height on both sides with 0.7mm BMT DHT and Soldier Stud		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	0.83
			Serviceability pressure W_S (kPa)	0.35

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
92 x 0.55 Acoustic Stud	600mm	2890*	2890*	2890*	2890*	2890*	2890*
	450mm	2890*	2890*	2890*	2890*	2890*	2890*

Acoustic stud walls lined full height on both sides with 0.55mm BMT DHT and Universal Brackets at Head and Base Tracks		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	1.07
			Serviceability pressure W_S (kPa)	0.45

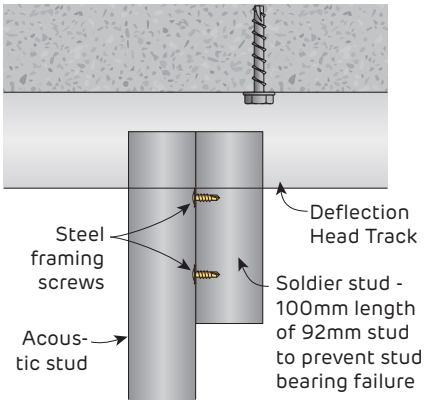
Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
92 x 0.55 Acoustic Stud	600mm	3250	3330	3440	3250	3330	3430
	450mm	3890	4040	4210	3690	3760	3840

Acoustic stud walls lined full height on both sides with 0.55mm BMT DHT and Universal Brackets at Head and Base Tracks		Up to BCA Building Importance Level 3	Ultimate pressure W_U (kPa)	1.30
			Serviceability pressure W_S (kPa)	0.55

Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
92 x 0.55 Acoustic Stud	600mm	2850	2910	2990	2850	2910	2990
	450mm	3410	3510	3630	3410	3460	3530

*Soldier Stud at Deflection Head Track and screw fix 0.5mm BMT Base Track to stud

Soldier Stud Detail



Concrete Anchor Table

Anchor	Spacing
SA6x45	600mm maximum plus 100mm maximum from track ends

1. Maximum wall heights based upon lateral pressures and the deflection limits stated. Not for external walls.
2. Noggings may reduce sound insulation performance.
3. Wall heights include self weight but are not applicable to axially loaded (load bearing) studs. Point loads and other loads such as shelf loads or live loads are not considered, and must be checked with Siniat.
4. Base track must be 0.5mm Base Metal Thickness (BMT) or greater. Deflection Head Track BMT is stated in table.
5. Connections to base track and head track checked. Head track checked with a maximum 20mm overlap length of the stud to DH-Track (max 20mm downward and 10mm upwards overhead soffit deflection).
6. Contact Siniat or a structural engineer to check walls for earthquake actions or any imposed ceiling loads during an earthquake. Specific project information is required.
7. Table refers to Siniat steel studs of grade G300 steel with Zincalume™ AM150 or AM125 corrosion protection. Maximum production lengths available are 6.0m
8. Designed in accordance with *AS/NZS 4600:2018 Cold Formed Steel Structures.*
9. Wind pressures determined in accordance with *AS/NZS 1170.2 Wind Actions.*
10. Serviceability wind pressure taken as 42% of ultimate, and serviceability deflection limited to either height/240 or height/360.
11. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.
12. For BCA Building Importance Level 4, please contact Siniat or refer to the Framing Tables Supplement.

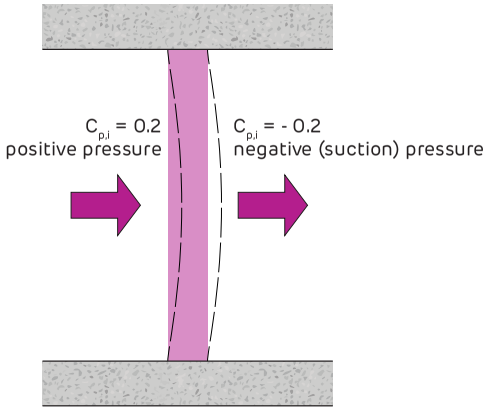
Worked Example

Internal wall partition lined full height on both sides

- Single leaf internal partition - lined full height with 13mm plasterboard on both sides
- Wall is not tiled, so deflection limit h/240 is suitable
- Height of partition is 3400mm
- Shopping centre that is effectively sealed where the external walls have non-opening windows
- Internal partition is adjacent to an external wall with no potential opening in any external surface greater than 0.5%
- Building Importance Level 2
- Terrain Category 1.5
- Internal partition is located 25m above ground level.

Step 1 *Determine $C_{p,i\ net}$*

From Section 2.3, first find the appropriate $C_{p,i\ net}$ from the information above, the internal wall partition is the same as Case 3, therefore the appropriate $C_{p,i\ net}$ is 0.4.



Case 3: Internal Wall $C_{p,i\ net}$ = 0.4

1. Air-conditioned Hospitals, Offices and Shopping Centres (except loading docks) that are effectively sealed where the external walls have non-opening windows
2. Single leaf internal wall
3. Effectively sealed wall
4. Adjacent to an external wall, or other internal walls that provide an effective seal between spaces.

Step 2 *Determine the Wind Region*

From Figure 2 'Australian Wind Regions' in Section 2.3, find Newcastle located in Wind Region A.

Step 3 *Determine the building's Importance Level (IL)*

Usually found on the front page of the Structural Engineers notes for the project. In this case the IL is 2.

Step 4 *Determine the Terrain Category (TC)* of the surrounding landscape around the building. Also usually found on the front page of the Structural Engineers notes for the project. In this case the TC is 1.5.

Step 5 *Determine Ultimate (W_U) and Serviceability (W_S) Wind Pressures.*

The floor of the building where the partition is to be built is 25m above the ground level. Refer to Table 10 in Section 2.3 'Internal Wind Pressures $C_{p,i}$ = 0.4'. The pressures found are Wu = 0.64 kPa, and Ws = 0.43 kPa.

Step 6 *Determine frame.*

Use the relevant 'Internal Non-Load Bearing Steel Stud Wall Height Table' in Section 3.1. For this case the internal wind pressures are rounded up to the nearest tables nominated pressure which are W_U = 0.70 kPa and W_S = 0.45 kPa.

Answer

64 x 0.75mm BMT studs at 400mm centres to reach a height of 3430mm.

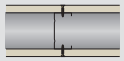
Table 10 Internal Wind Pressures $C_{p,i}$ =0.4

$C_{p,i}$ = Internal wind pressure coefficient

Building Importance Level 2																														
Region	A															B														
Ultimate Wind Speed V500 (m/s)	45															57														
Serviceability Wind Speed V25 (m/s)	37															39														
Terrain Category	1			1.5			2			2.5			3			1			1.5			2			2.5			3		
Height above ground (z)	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50	10	25	50
$M_{z,cat}$	1.12	1.21	1.25	1.06	1.15	1.22	1.00	1.10	1.18	0.92	1.04	1.13	0.83	0.97	1.07	1.12	1.21	1.25	1.06	1.15	1.22	1.00	1.10	1.18	0.92	1.04	1.13	0.83	0.97	1.07
Ultimate Wind Pressure (kPa)	0.61	0.71	0.76	0.55	**0.64**	0.72	0.49	0.59	0.68	0.41	0.53	0.62	0.33	0.46	0.56	0.98	1.14	1.22	0.88	1.03	1.16	0.78	0.94	1.09	0.65	0.84	1.00	0.54	0.73	0.89
Serviceability Wind Pressure (kPa)	0.41	0.48	0.51	0.37	**0.43**	0.49	0.33	0.40	0.46	0.28	0.36	0.42	0.23	0.31	0.38	0.46	0.53	0.57	0.41	0.48	0.54	0.37	0.44	0.51	0.31	0.39	0.47	0.25	0.34	0.42

Internal Non-Load Bearing Steel Stud Wall Height Table (mm) - REGION A

Refer to Section 2.3 for assistance determining the relevant wind pressures for a specific project.

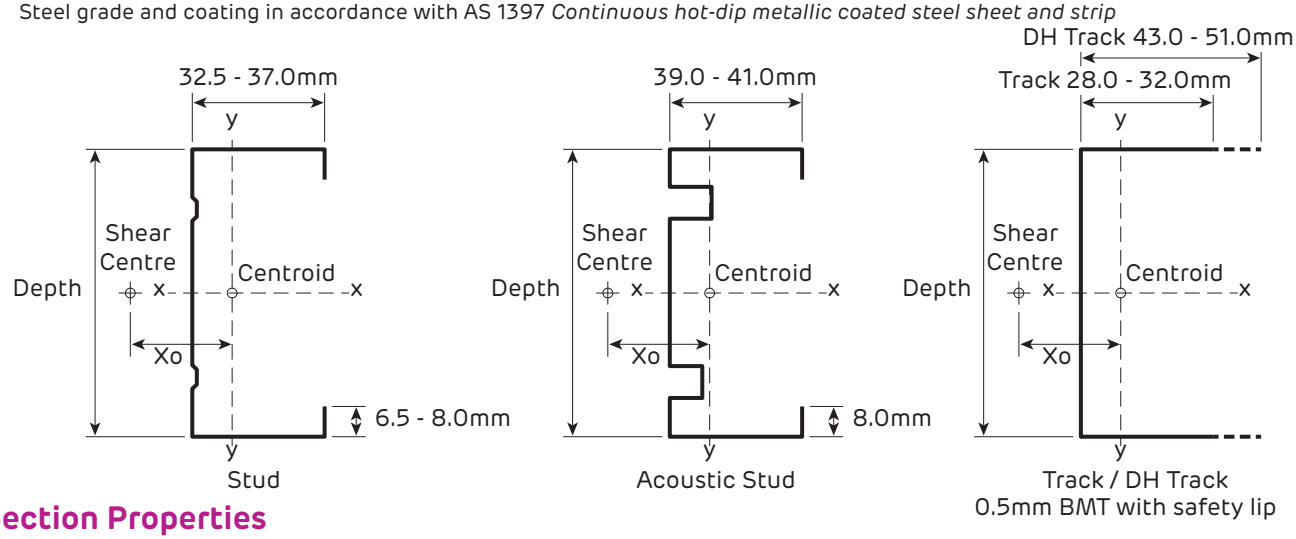
Steel stud walls lined full height on both sides			Up to BCA Building Importance Level 3		Ultimate pressure W_U (kPa)		0.70
					Serviceability pressure W_S (kPa)		0.45
Stud Depth and BMT (mm)	Maximum Stud Centres (mm)	Deflection limited to H/240 or 30mm max Untiled plasterboard wall lining			Deflection limited to H/360, or 20mm max Any tiled wall, or untiled fibre cement wall lining		
		10mm	13mm	16mm	10mm	13mm	16mm
51 x 0.5	600	2140	2210	2270	1820	1870	1950
	450	2390	2460	2560	2030	2080	2160
	400	2500	2580	2680	2120	2180	2250
	300	2790	2820	3000 (0.7)	2370	2430	2510
64 x 0.5	600	2200	2200	2200	2190	2200	2200
	450	2890 (0.7)	2930 (0.7)	2930 (0.7)	2440	2500	2570
	400	3030 (0.7)	3110 (0.7)	3220 (0.7)	2560	2620	2690
	300	3370 (0.7)	3480 (0.7)	3610 (0.7)	2850 (0.7)	2930 (0.7)	3010 (0.7)
64 x 0.75	600	2880	2940	3010	2450	2490	2550
	450	3210	3280	3370	2730	2780	2840
	400	3350	**3430**	3530	2850	2900	2970
	300	3720	3820	3940	3170	3240	3320

Steel Profile Information

Material

Manufacturer	Grade	Ultimate	Yield	Coating
Siniat	G300	340 MPa	300 MPa	AM150 / AM125

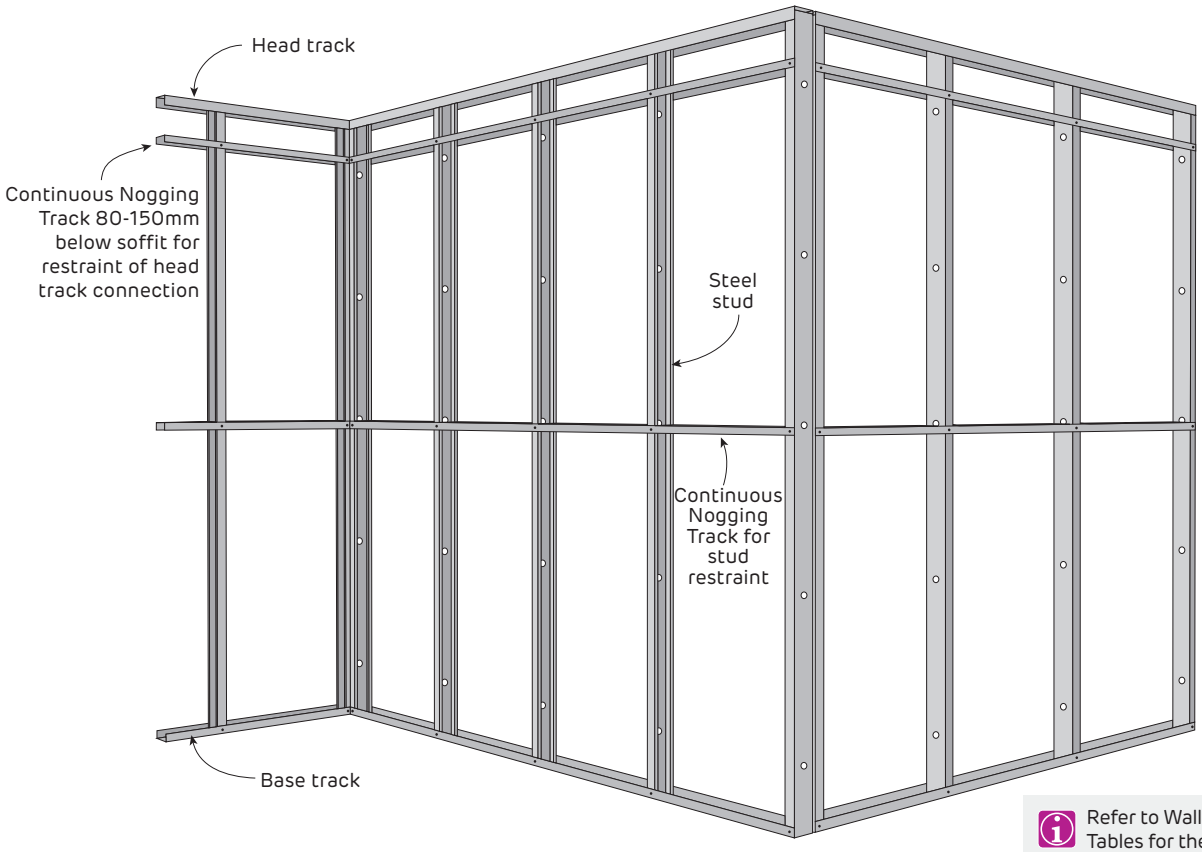
1. Steel grade and coating in accordance with AS 1397 *Continuous hot-dip metallic coated steel sheet and strip*



Section Properties

Profile	Dimensions (mm)		Shear Centre from Centroid (mm)	Area (mm²)	Moment of Inertia (mm⁴)		Section Modulus (mm³)		Torsion Constant J (mm⁴)	Warping Constant Iw (mm⁶)
	Depth	BMT	Xo		Ixx	Iyy	Zxx	Zyy		
Stud	51	0.5	-28.7	63.3	28,320	10,170	1,127	449	5.3	5,498,000
	64	0.5	-26.4	69.3	46,840	10,640	1,481	453	5.8	8,545,000
	64	0.75	-26.5	103.8	69,520	15,960	2,207	686	19.5	12,930,000
	64	1.15	-26.7	158.8	105,700	24,870	3,376	1,056	70.0	19,320,000
	76	0.55	-25.2	83.2	77,040	12,860	2,049	518	8.4	13,980,000
	76	0.75	-27.3	116.9	108,400	20,140	2,891	798	21.9	22,800,000
	76	1.15	-26.4	176.0	160,600	28,700	4,305	1,161	77.6	31,980,000
	92	0.55	-24.4	93.4	121,800	14,540	2,672	571	9.4	23,680,000
	92	0.75	-24.2	126.8	164,300	19,450	3,611	767	23.8	31,460,000
	92	1.15	-24.7	194.7	251,300	30,770	5,548	1,199	85.8	48,940,000
	150	0.75	-20.0	171.1	529,700	23,340	7,110	847	32.1	98,580,000
	150	1.15	-20.0	262.1	808,500	35,850	10,880	1,296	115.6	150,300,000
Acoustic Stud	92	0.55	-22.2	126.4	156,600	20,220	3,376	712	12.8	33,640,000
Track	51	0.5	-22.8	57.9	27,190	6,850	1,051	290	4.8	3,112,000
	64	0.5	-17.8	60.4	40,650	5,196	1,256	236	5.0	3,717,000
	64	0.7	-17.5	84.2	56,920	7,046	1,750	323	13.8	5,081,000
	64	1.15	-18.1	140.1	95,810	12,444	2,937	558	61.8	8,989,000
	76	0.55	-18.2	68.4	63,000	6,549	1,642	273	5.7	6,639,000
	76	0.7	-17.9	95.4	88,180	8,896	2,289	375	15.6	9,084,000
	76	1.15	-16.7	153.5	141,000	12,780	3,642	561	67.7	13,160,000
	92	0.55	-16.5	75.9	96,680	6,602	2,085	271	6.3	9,939,000
	92	0.7	-16.6	106.7	137,000	9,375	2,942	383	17.4	14,210,000
	92	1.15	-15.6	172.6	220,300	13,780	4,714	583	76.1	21,050,000
	150	0.75	-13.0	157.6	468,000	11,220	6,199	429	29.6	47,330,000
	150	1.15	-12.9	241.5	718,500	16,890	9,491	649	106.5	71,610,000
DH Track	51	0.55	-38.3	82.5	43,020	22,890	1,651	687	8.3	10,820,000
	64	0.55	-35.7	89.1	68,770	24,040	2,118	700	9.0	17,460,000
	64	0.7	-35.9	113.6	88,020	30,890	2,706	897	18.6	22,490,000
	64	1.15	-35.7	186.3	145,500	50,170	4,450	1,461	82.1	36,820,000
	76	0.55	-31.4	92.4	94,900	21,510	2,467	640	9.3	21,830,000
	76	0.7	-32.4	119.2	123,500	29,280	3,206	854	19.5	29,780,000
	76	1.15	-33.0	193.2	188,300	48,250	5,062	1,409	85.2	45,660,000
	92	0.55	-32.0	104.4	151,400	27,030	3,263	739	10.5	40,000,000
	92	0.7	-32.2	133.2	194,300	34,750	4,176	947	21.8	51,680,000
	92	1.15	-30.7	215.3	314,200	51,950	6,714	1,457	94.9	78,040,000
	150	0.75	-25.5	183.9	617,700	39,310	8,181	1,016	34.5	158,600,000
	150	1.15	-25.4	280.8	937,400	59,520	12,450	1,546	123.8	238,600,000

Non-Fire Rated and Fire Rated
Continuous Nogging Track



Refer to Wall Height Tables for the number of noggings required

FIGURE 2 Steel Stud Frame with Continuous Nogging Track

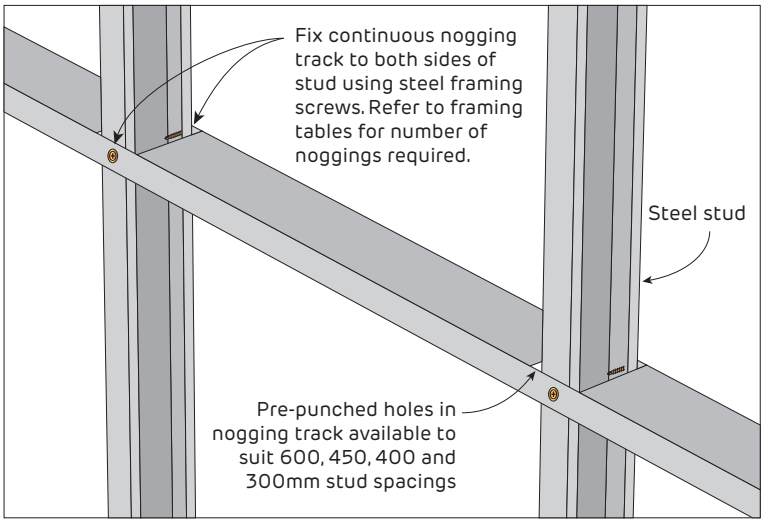


FIGURE 3 Continuous Nogging Track
Perspective

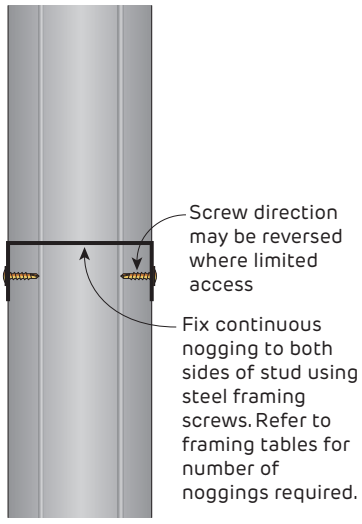
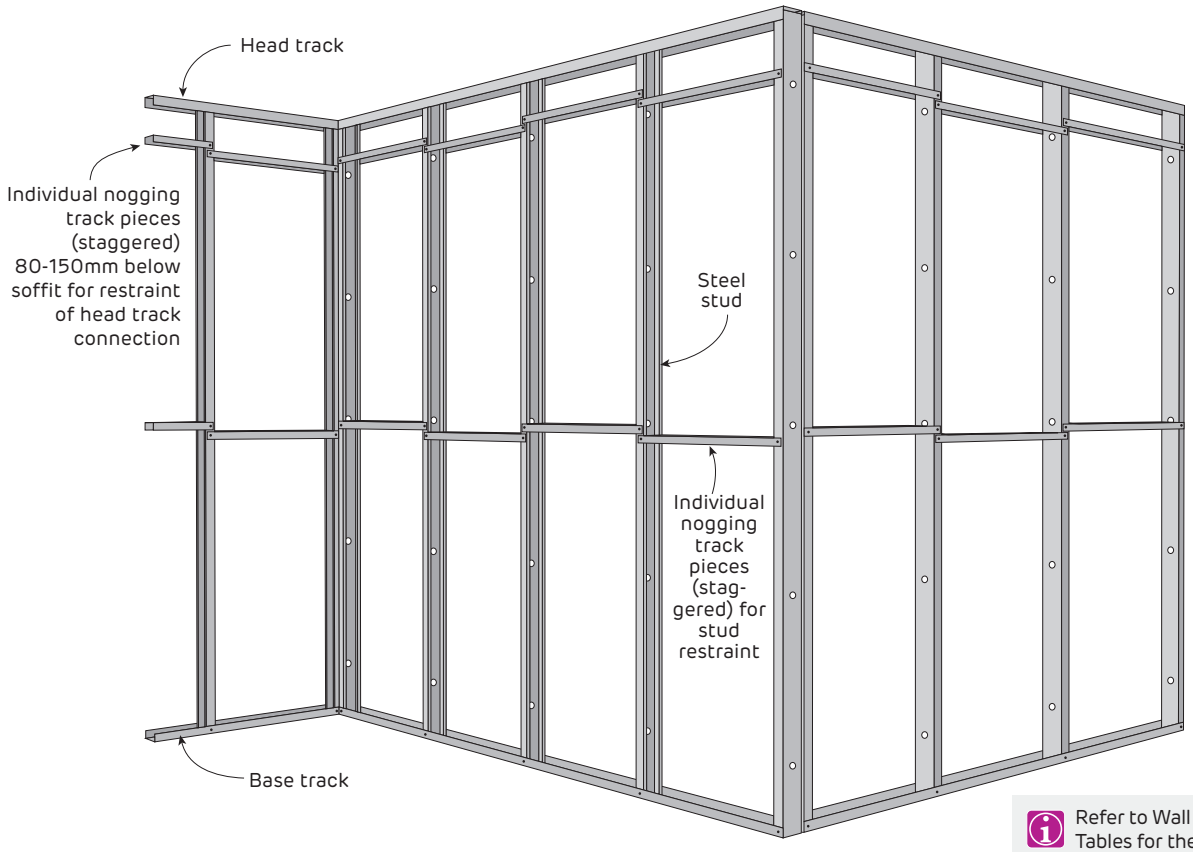


FIGURE 4 Continuous Nogging Track
Section

Non-Fire Rated and Fire Rated
Individual Nogging Track Pieces



Refer to Wall Height Tables for the number of noggings required

FIGURE 5 Steel Stud Frame with Individual Nogging Track Pieces

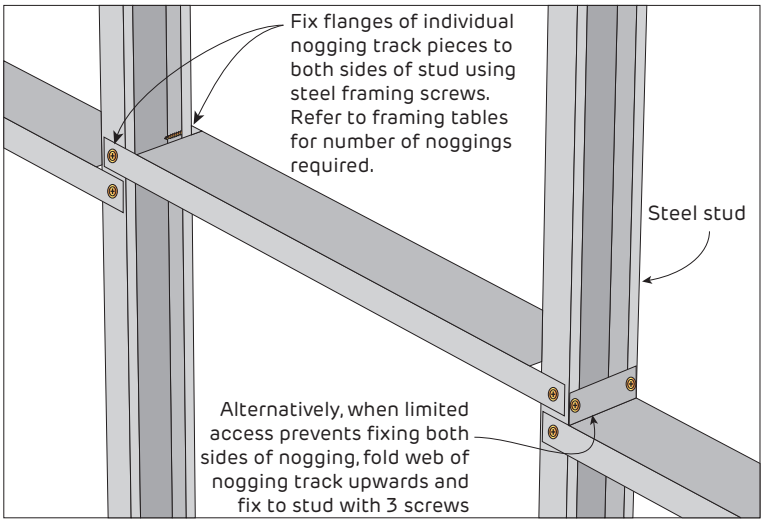


FIGURE 6 Individual Nogging Track Pieces
Perspective

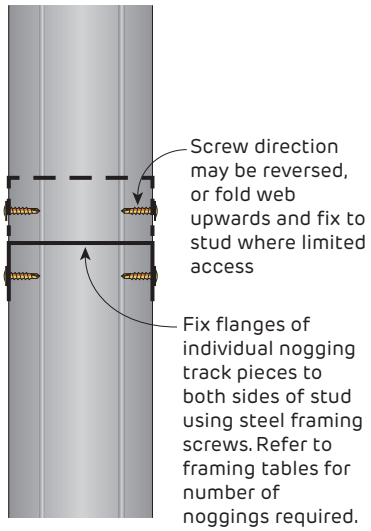


FIGURE 7 Individual Nogging Track Pieces
Section

Non-Fire Rated and Fire Rated
Strap and Block Nogging Track

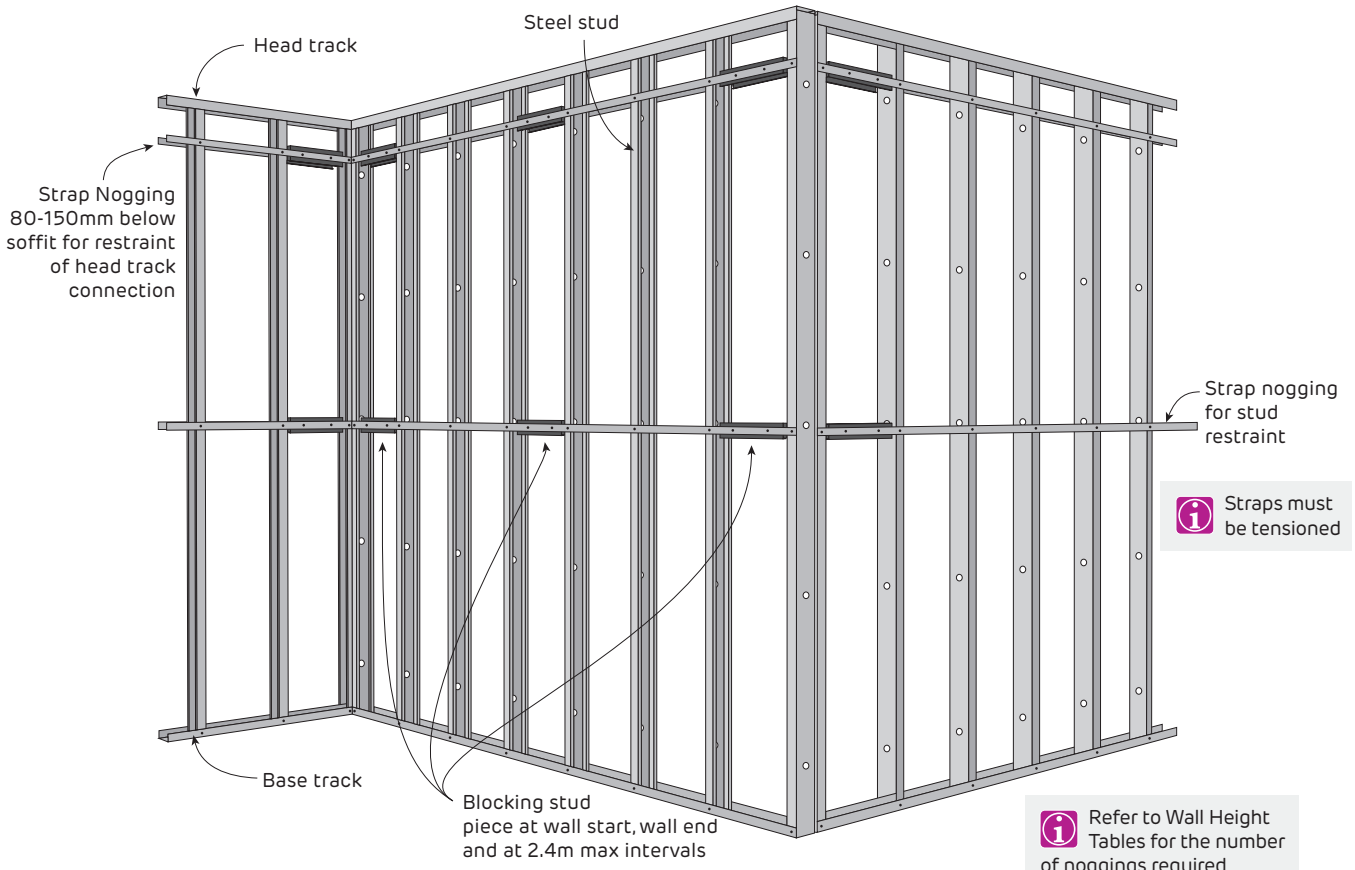
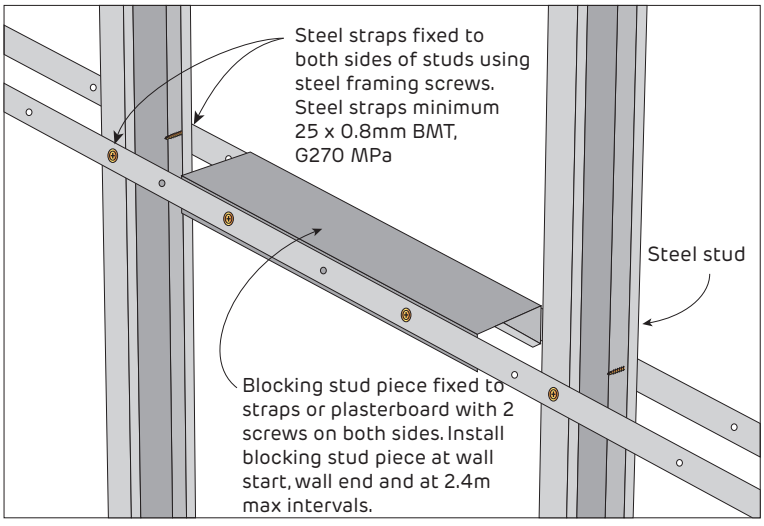


FIGURE 8 Steel Stud Frame with Strap and Block Nogging



Straps must be tensioned

FIGURE 9 Strap and Block Nogging
Perspective

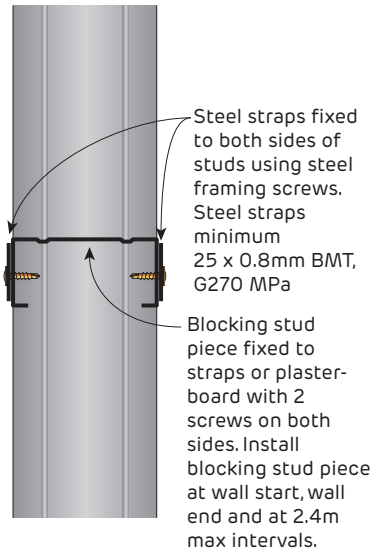


FIGURE 10 Strap and Block Nogging
Section

Non-Fire Rated and Fire Rated
Strap and Block Nogging Track

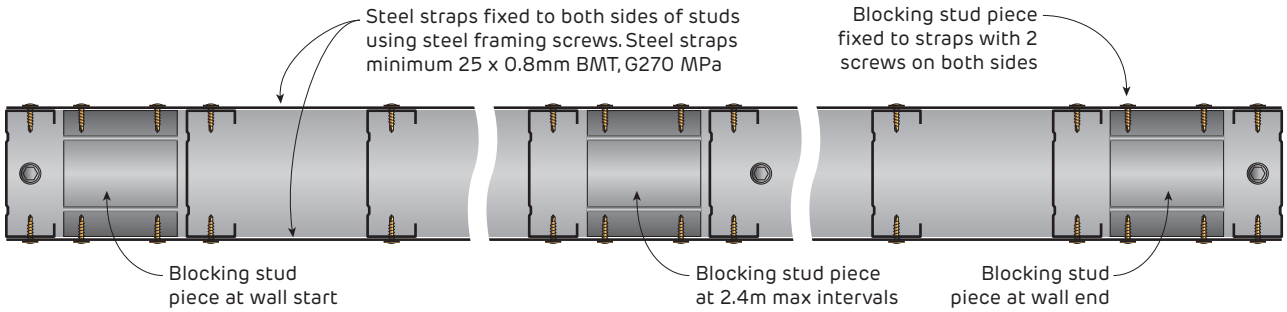


FIGURE 11 Lined or Unlined Stud Wall
Load bearing and non-load bearing walls
Plan

Straps must be tensioned

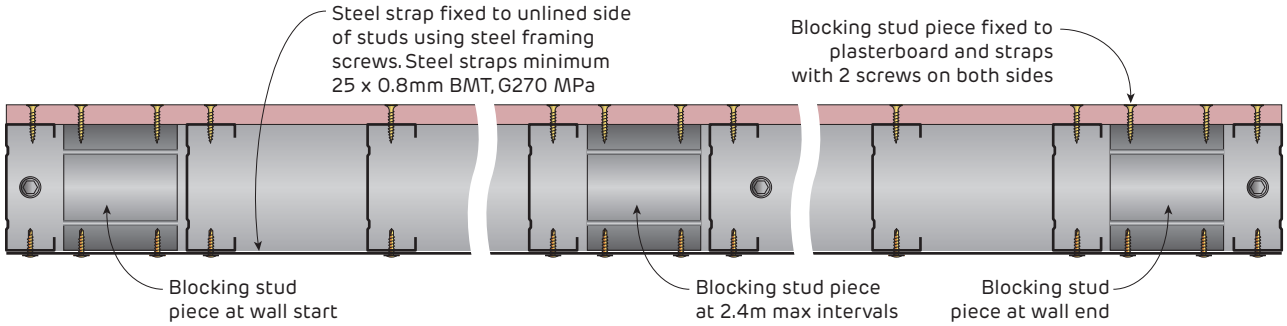


FIGURE 12 Stud Wall Lined on One Side Only
Non-load bearing walls only
Plan

Refer to Wall Height Tables for the number of noggings required

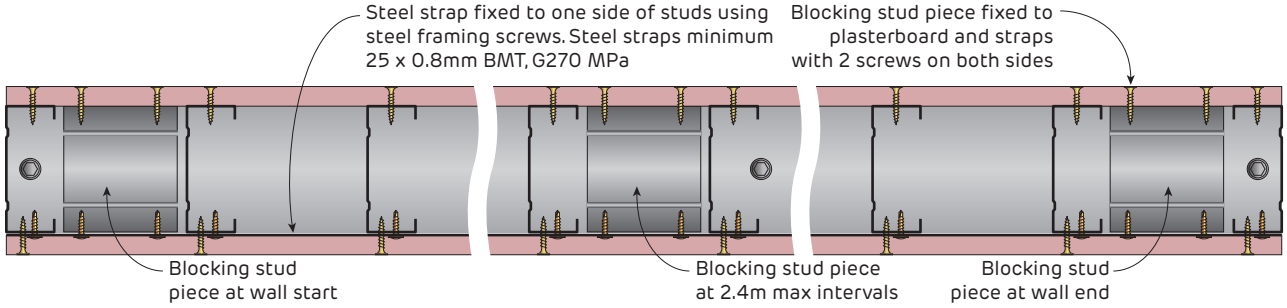


FIGURE 13 Stud Wall Lined on Both Sides
Non-load bearing walls only
Plan

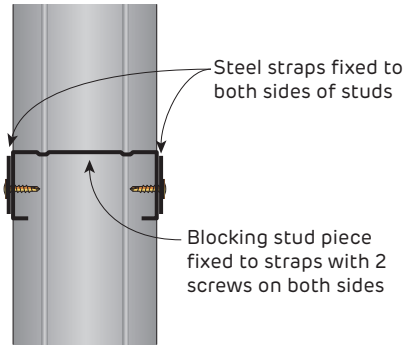


FIGURE 14 Lined or Unlined Stud Wall
Load bearing and non-load bearing walls
Section

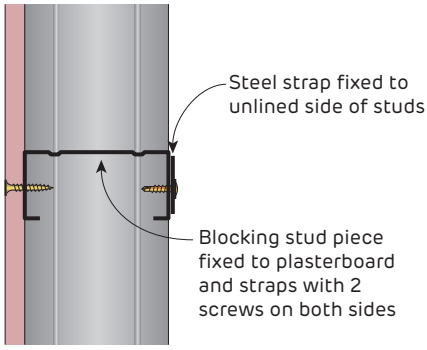


FIGURE 15 Stud Wall Lined on One Side Only
Non-load bearing walls only
Section

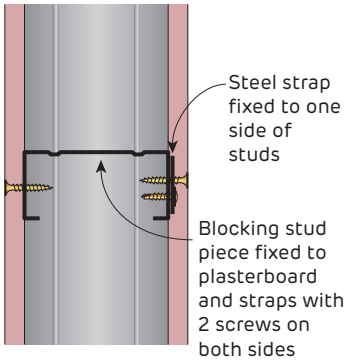


FIGURE 16 Stud Wall Lined on Both Sides
Non-load bearing walls only
Section

Non-Fire Rated and Fire Rated
Strap Noggings

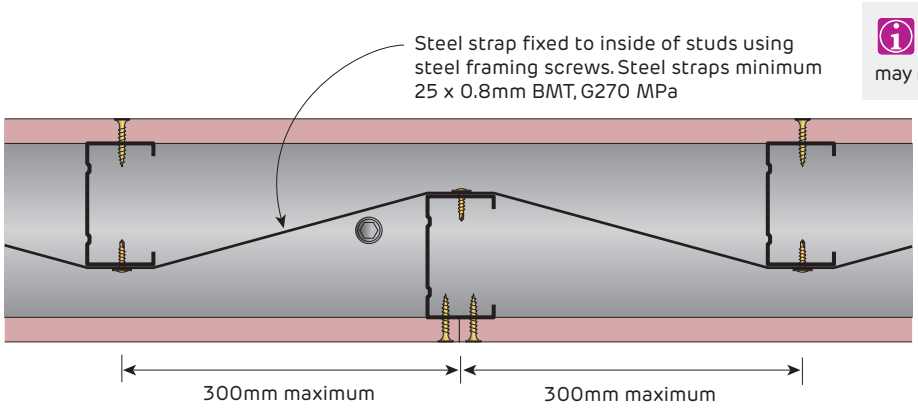


FIGURE 17 Strap Nogging for Staggered Stud Walls
Plan

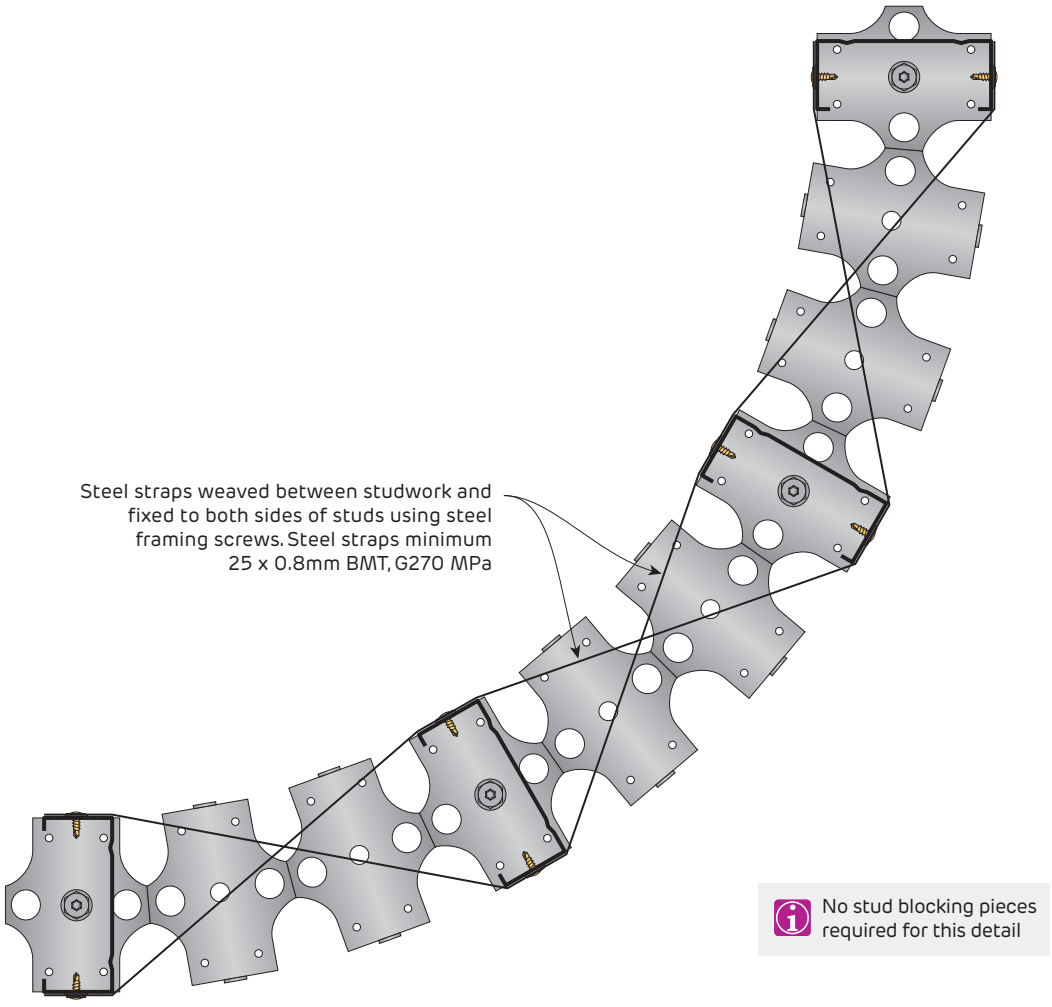


FIGURE 18 Strap Nogging for Curved Stud Walls
Plan

Non-Load Bearing Wall
Steel Stud Cut-Out Tolerances

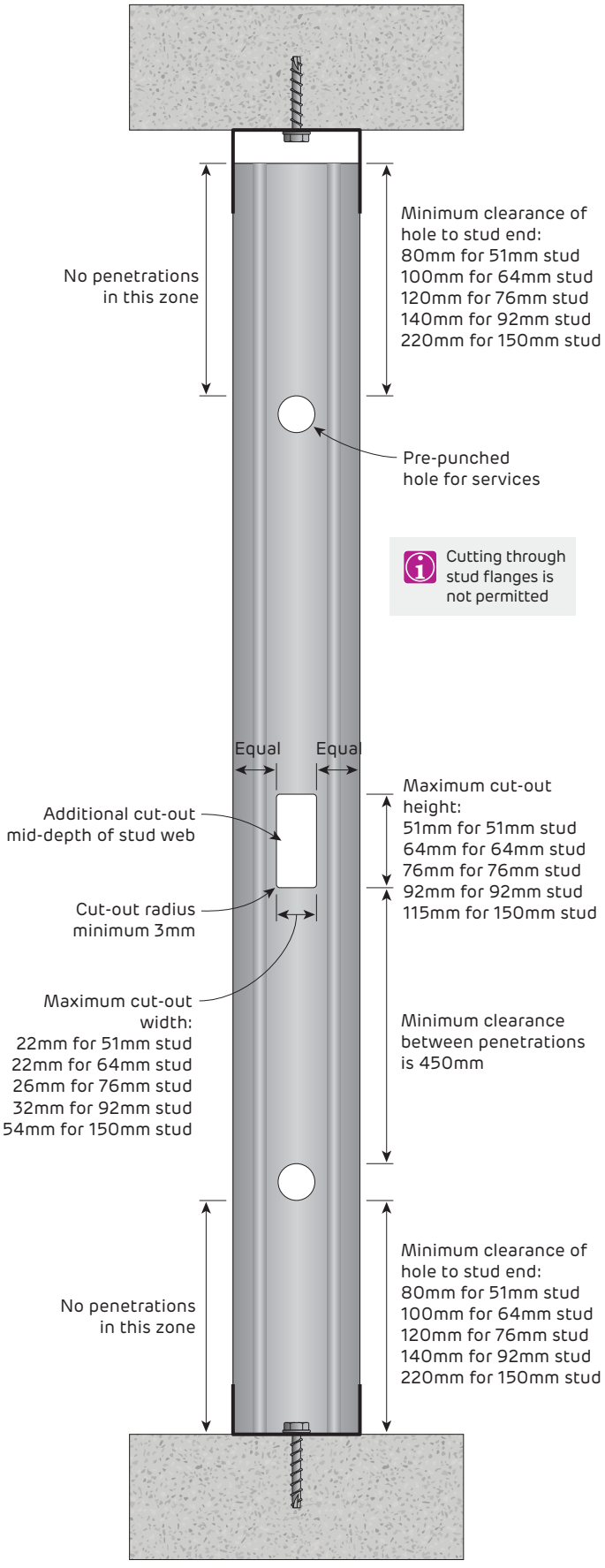


FIGURE 19 Stud Cut-out Tolerances
Non-load bearing walls only
Section

Plasterboard Layout

	Non-fire Rated	Fire Rated
Vertical joints must be 200mm minimum from the edge of any opening such as windows and doorways to minimise cracking at the joints.	✓	✓
Install sheets horizontally when using Siniat Acoustic Stud. Float and back block butt joints according to Installation figures.	✓	✓
Horizontal Layout		
Stagger butt joints in single layer systems by 300mm minimum on adjoining sheets and on opposite sides of the wall.	✓	✓
Stagger butt joints in multilayer systems by 300mm minimum on adjoining sheets and between layers.	✓	✓
First layer butt joints must be backed by a stud or back-blocked.	✓	✓
Stagger recessed edges by 300mm minimum between layers.	✓	✓
Stagger recessed edges in single layer systems by 300mm minimum on opposite sides of the wall or alternatively, back by a nogging.		✓
Vertical Layout		
Alternate from one side of the wall to the other when fixing the plasterboard sheets.	✓	✓
Stagger butt joints in single layer systems by 300mm minimum on adjoining sheets and on opposite sides of the wall.	✓	✓
Stagger butt joints by 300mm minimum on adjoining sheets and between layers.	✓	✓
First layer butt joints must be backed by a nogging or back-blocked.	✓	
First layer butt joints must be backed by a nogging.		✓
Stagger recessed edges by 300mm minimum between layers.	✓	✓
Stagger recessed edges by 300mm minimum on opposite sides of the wall for single layer systems	✓	✓

> Install plasterboard sheets horizontally when practical to minimise stud twisting and reduce the effect of glancing light.

> Minimise butt joints by using long sheets.

Plasterboard Fixing

	Non-fire Rated	Fire Rated
Drive screws to just below the sheet surface, taking care not to break the paper linerboard. For over-driven screws, install another screw 20mm away. Leave or remove the over-driven screw and patch.	✓	✓
Laminating screws can be used to fix butt joints in the second and third layer.	✓	✓
Screw and Adhesive Method		
Apply mastagrip Stud Adhesive after the frame is clean, dry, and free from grease, dust and other contaminants.	✓	
Apply mastagrip daubs 200mm minimum from screws and plasterboard edges.	✓	
Screw Only Method		
Use the 'Screw Only Method' in tiled or fire rated areas. Stud adhesive is not permitted.	✓	✓

The 'Screw and Adhesive Method' is recommended for non-fire rated applications.

mastagrip will:

- Minimise screw popping
- Reduce the number of screw heads that may show in glancing light
- Assist in compensating for frame irregularities.

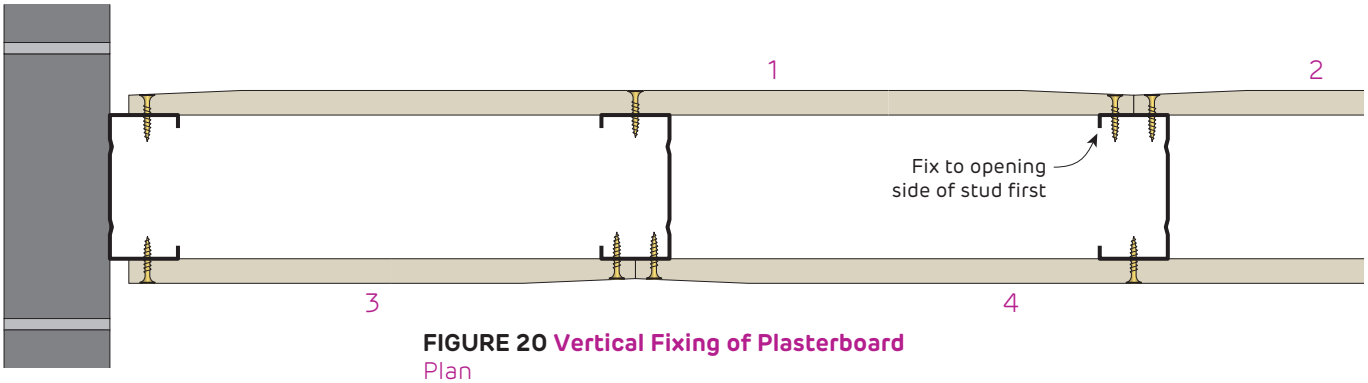


FIGURE 20 Vertical Fixing of Plasterboard
Plan

Screw Type and Minimum Size for the Installation of Plasterboard to Steel

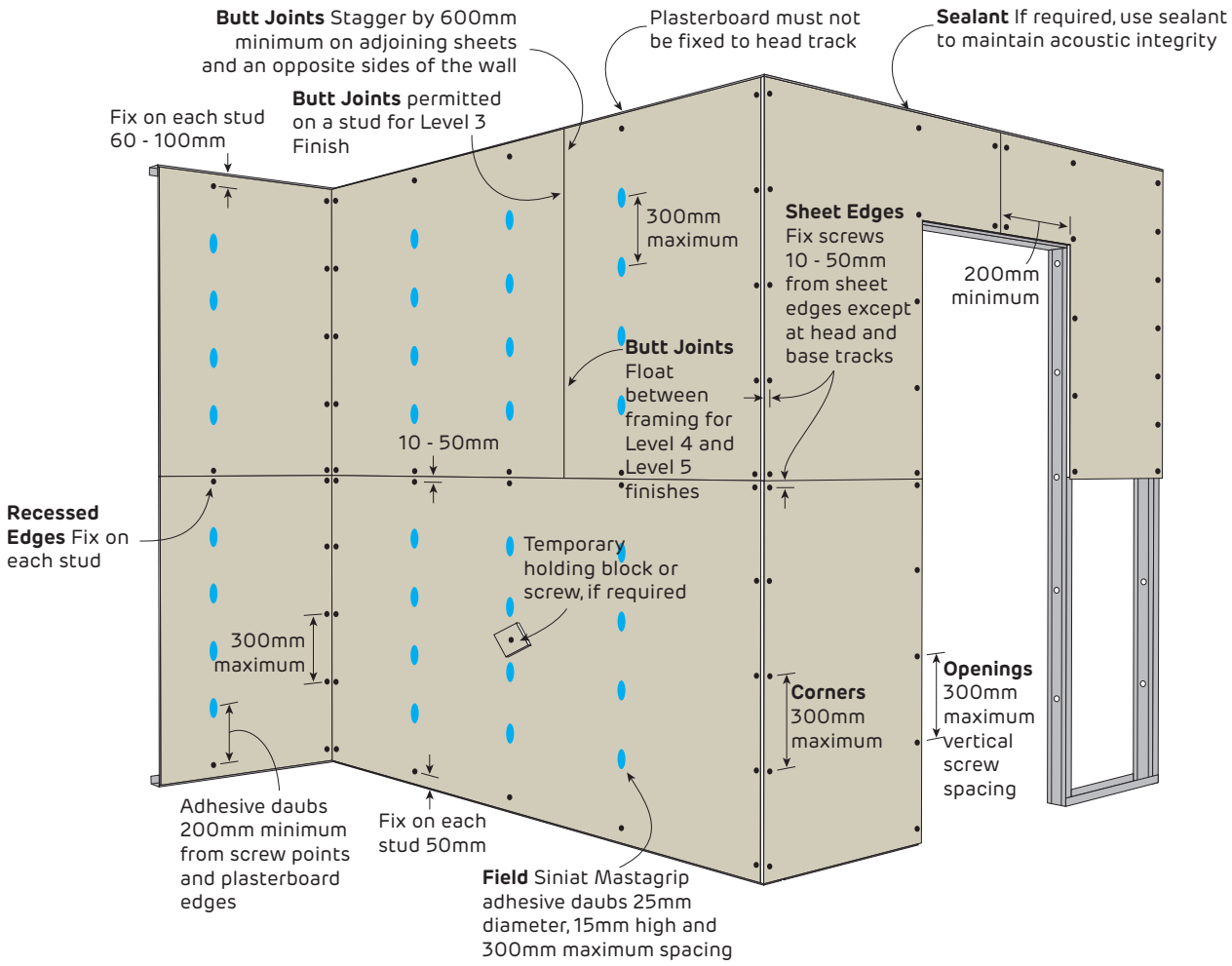
Plasterboard Thickness	1st Layer	2nd Layer	3rd Layer	4th Layer
6.5mm	6g x 25mm screw	6g x 25mm screw	-	-
10mm	6g x 25mm screw	6g x 41mm screw *	-	-
13mm	6g x 25mm screw	6g x 41mm screw *	7g x 57mm screw *	-
16mm	6g x 32mm screw	6g x 45mm screw *	8g x 65mm screw *	10g x 38mm laminating screw
2 x 25mm + 1 x 13mm	6g x 41mm screw	8g x 65mm screw	8g x 75mm screw	-

For steel ≤ 0.75mm BMT, use fine thread needle point screws.

For steel ≥ 0.75mm BMT, use fine thread drill point screws.

*10g x 38mm Laminating screws may be used as detailed in installation diagrams.

FIGURE 21 Non-Fire Rated 1 Layer - Horizontal
Screw and Adhesive Method



Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S A A S
900mm	S A A A S
1200mm	S A A A A S
1350mm	S A A A A A S
1400mm	S A A A A A S

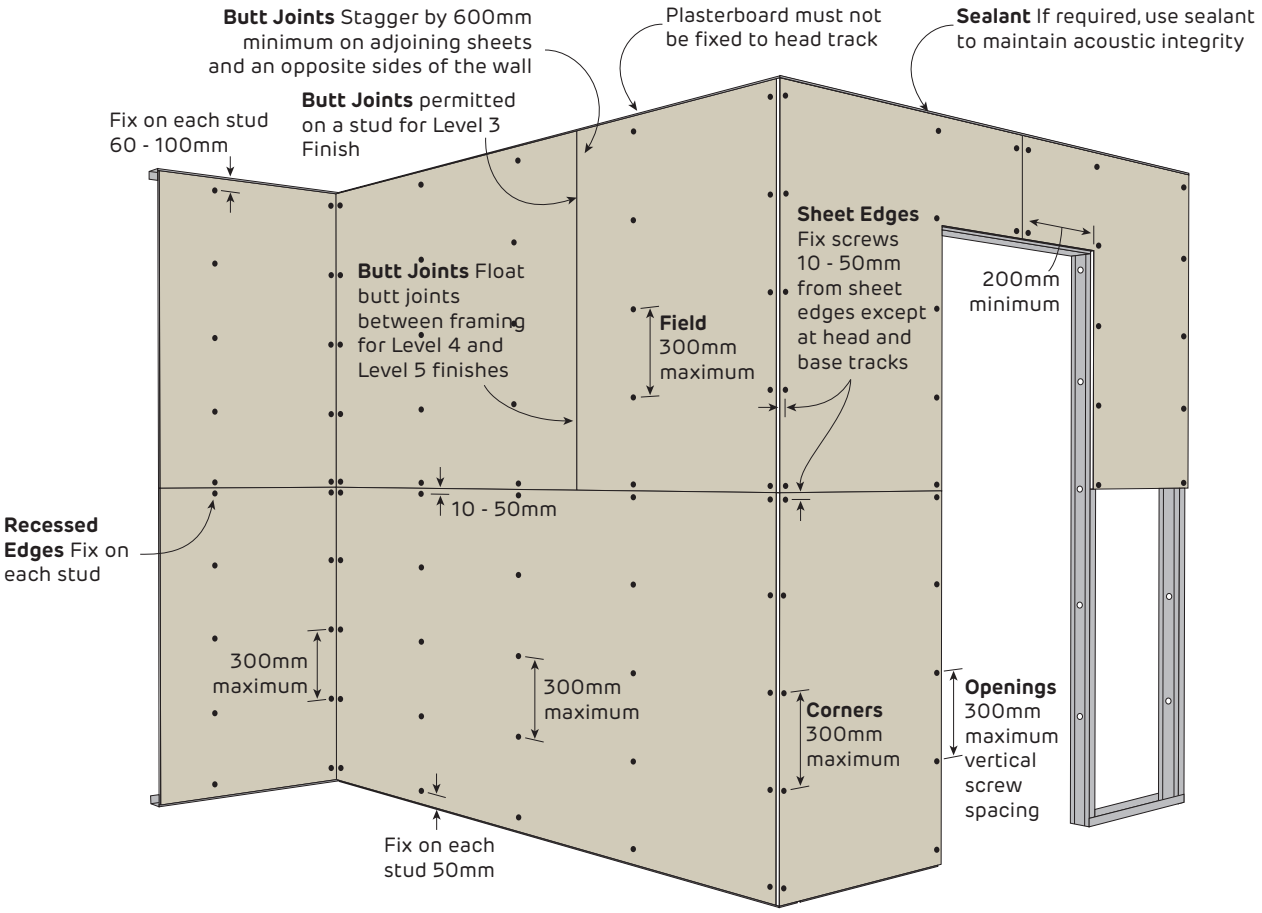
S = Screw
A = Adhesive daub

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
10mm	0.95	1.30	1.45	1.95
13mm	1.10	1.45	1.65	2.20
16mm	1.10	1.45	1.65	2.20

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 22 Non-Fire Rated 1 Layer - Horizontal
Screw Only Method



Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

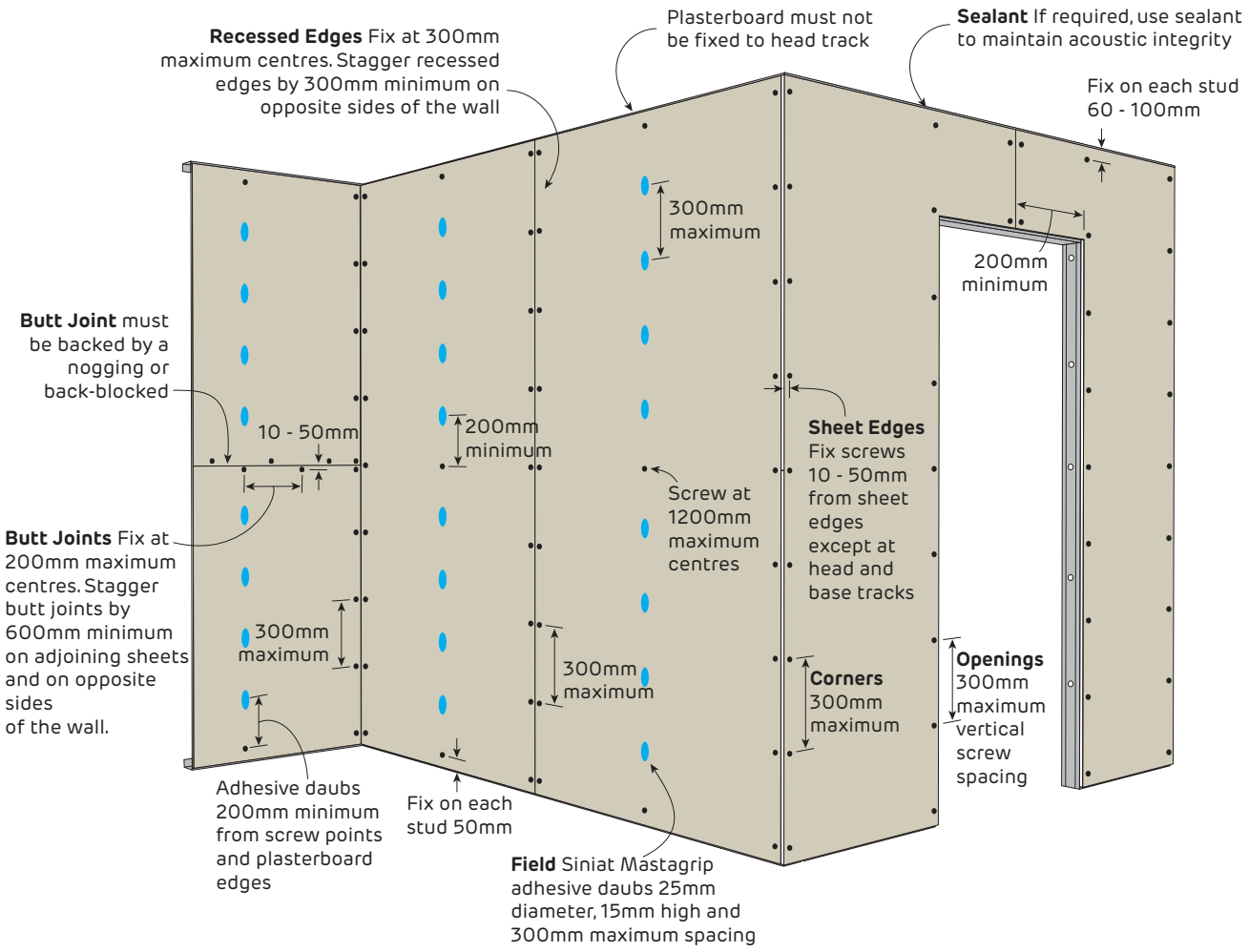
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
10mm	0.75	1.05	1.15	1.55
13mm	0.85	1.15	1.30	1.75
16mm	0.85	1.15	1.30	1.75

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 23 Non-Fire Rated 1 Layer - Vertical
Screw and Adhesive Method

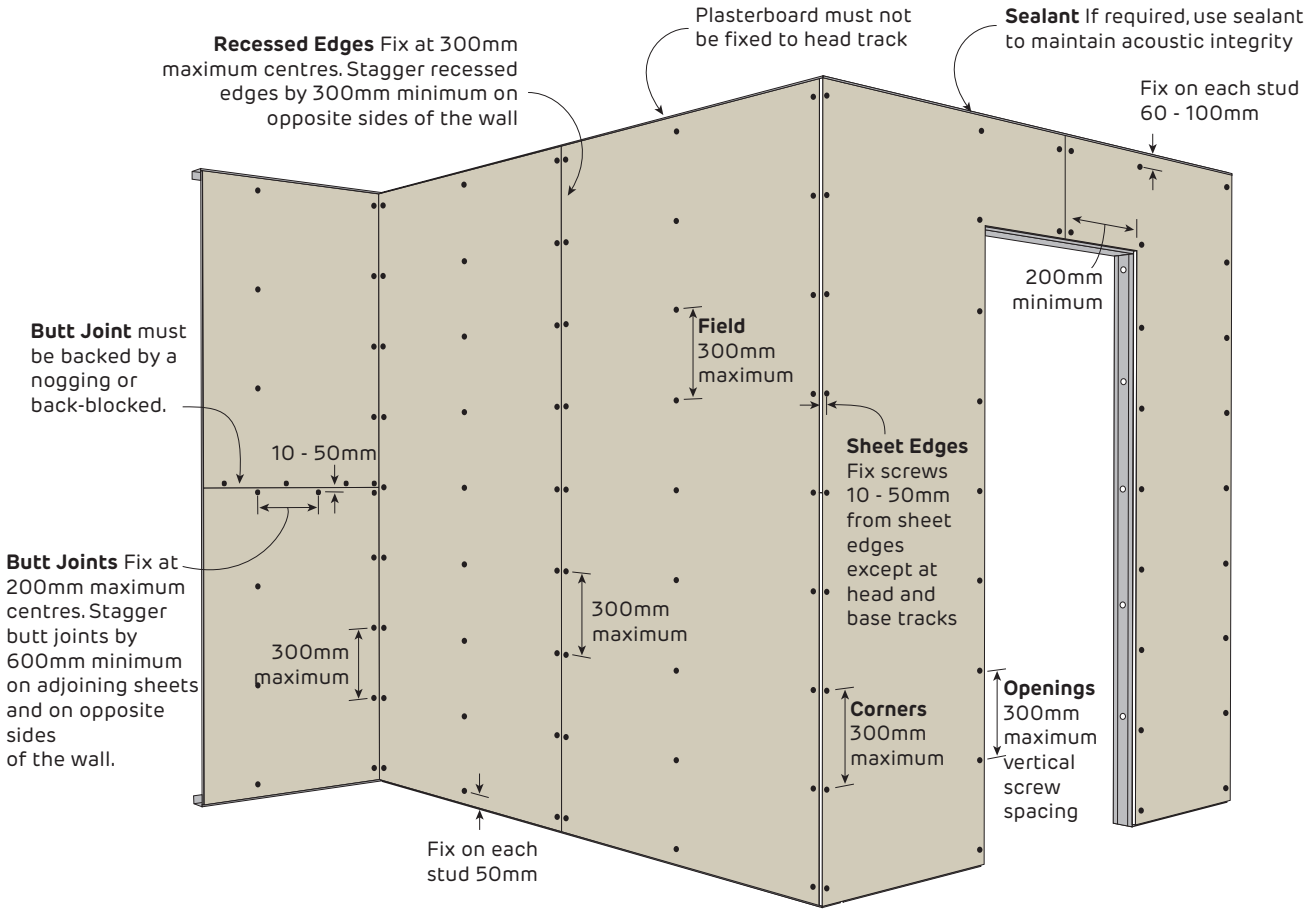


Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
10mm	0.75	1.00	1.15	1.55
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 24 Non-Fire Rated 1 Layer - Vertical
Screw Only Method

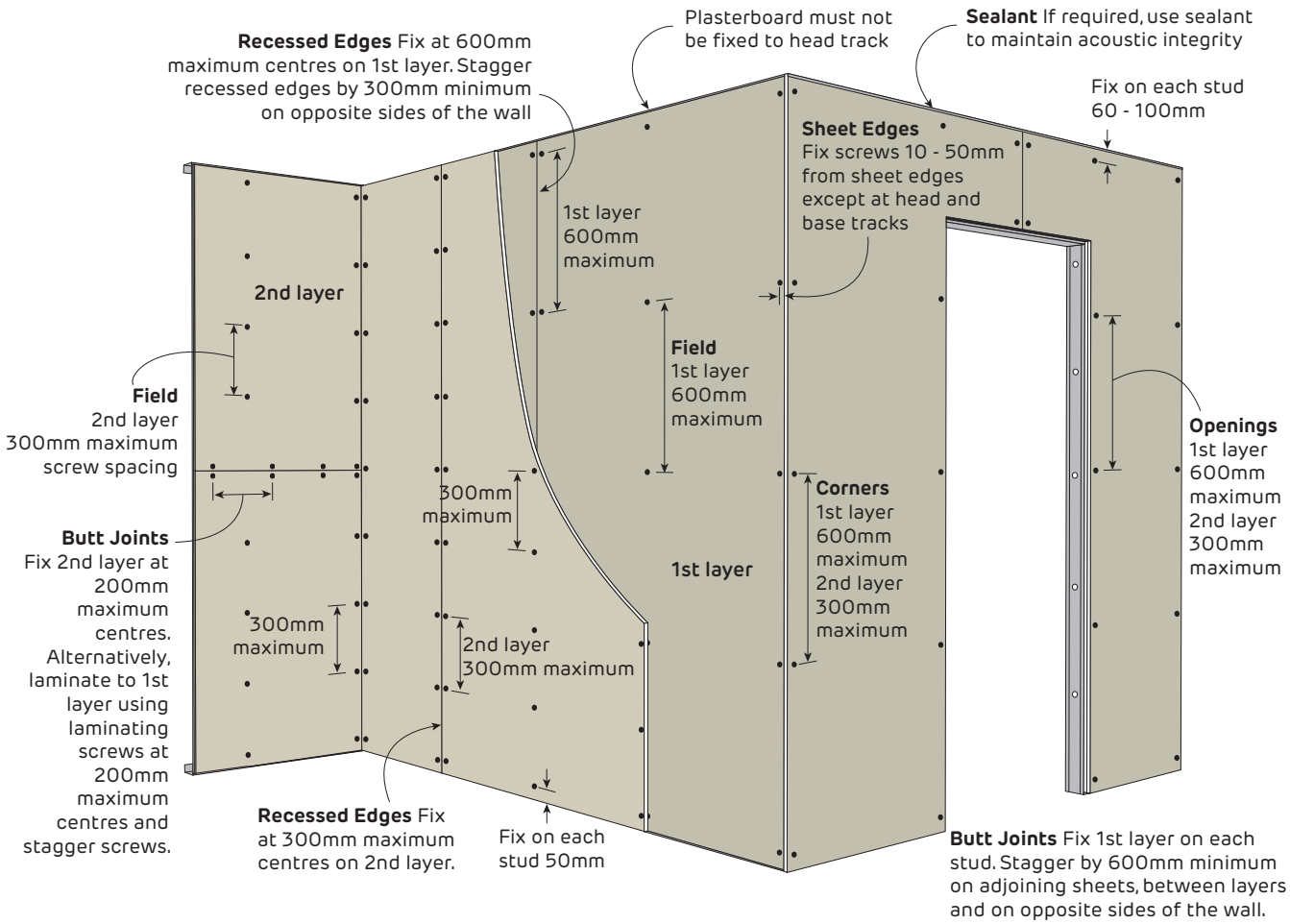


Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
10mm	0.75	1.00	1.15	1.55
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 25 Non-Fire Rated 2 Layers - Vertical + Vertical
Screw Only Method

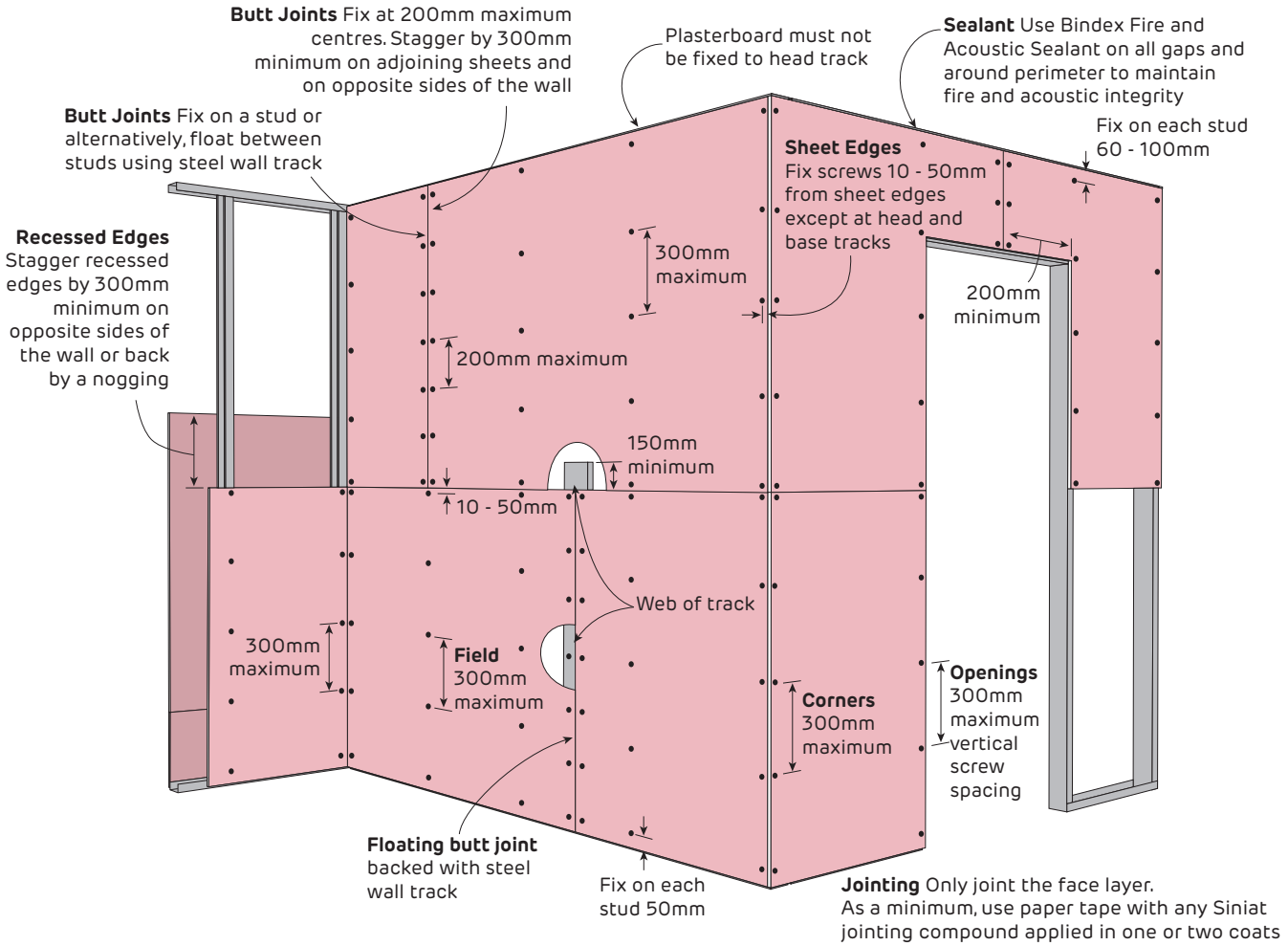


Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
10mm	0.75	1.00	1.15	1.55
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 26 Fire Rated 1 Layer - Horizontal
Screw Only Method



Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

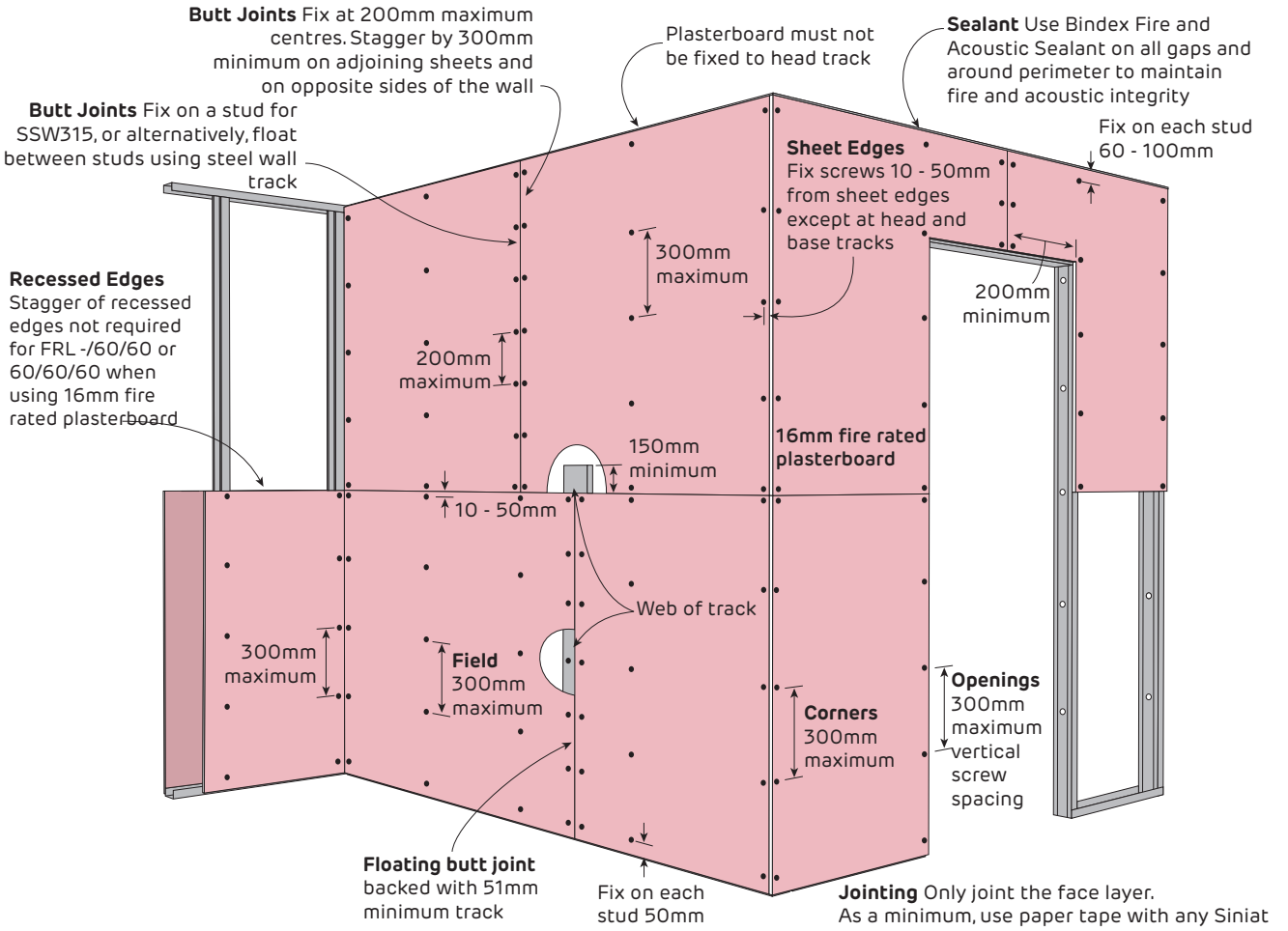
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 27 Fire Rated 1 Layer - Horizontal. FRL -/60/60 and 60/60/60 for systems SSW315 and SSW391 only
Screw Only Method



Jointing Only joint the face layer.
As a minimum, use paper tape with any Siniat jointing compound applied in one or two coats to the thickness of two coats. Alternatively, for butt joints only, use Bindex Fire and Acoustic Sealant according to the Product Data Sheet.

Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

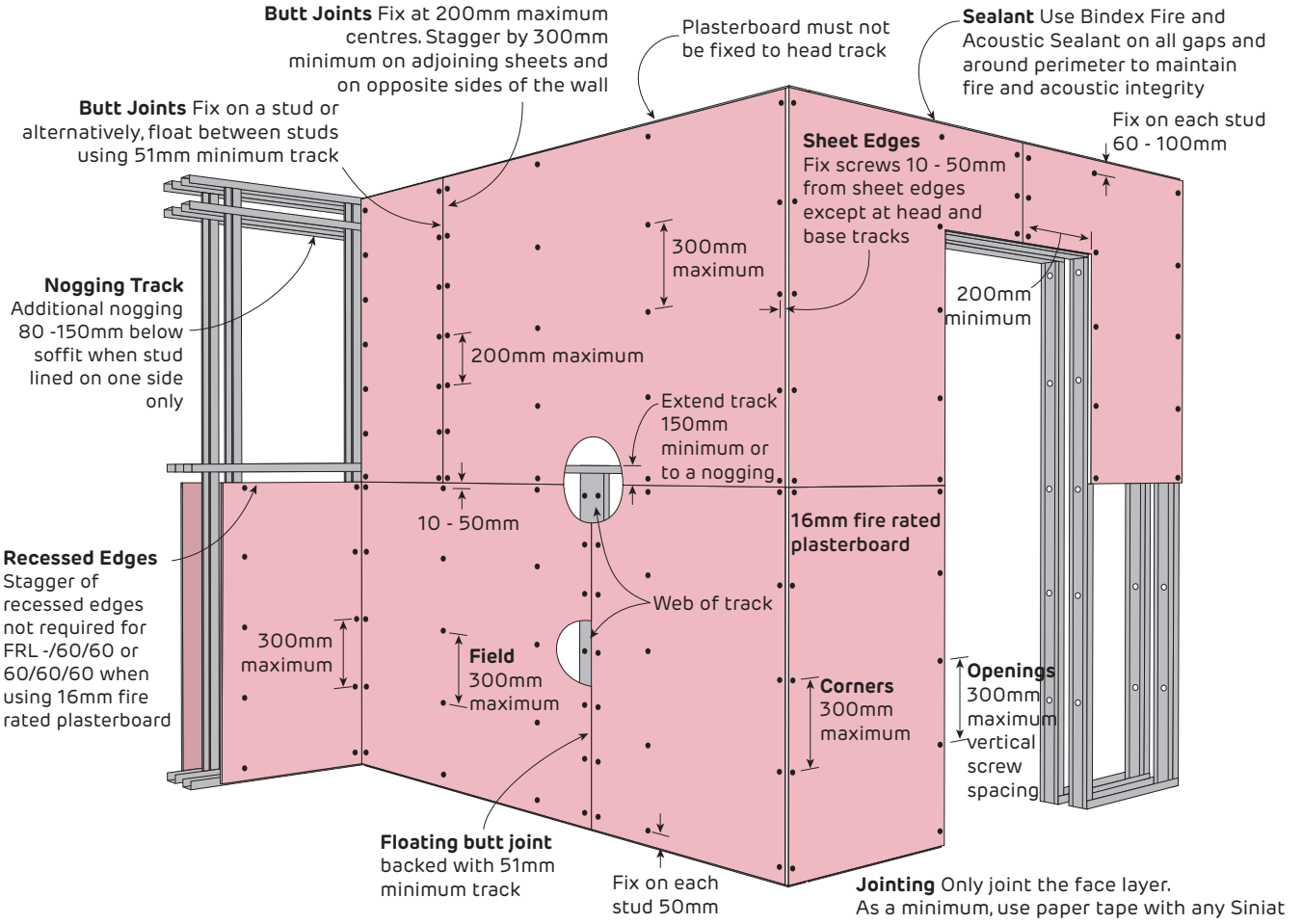
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 28 Fire Rated 1 Layer - Horizontal. FRL -/60/60 or 60/60/60 for system SSW335 only
Screw Only Method



Jointing Only joint the face layer. As a minimum, use paper tape with any Siniat jointing compound applied in one or two coats to the thickness of two coats. Alternatively, for butt joints only, use Bindex Fire and Acoustic Sealant according to the Product Data Sheet.

Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

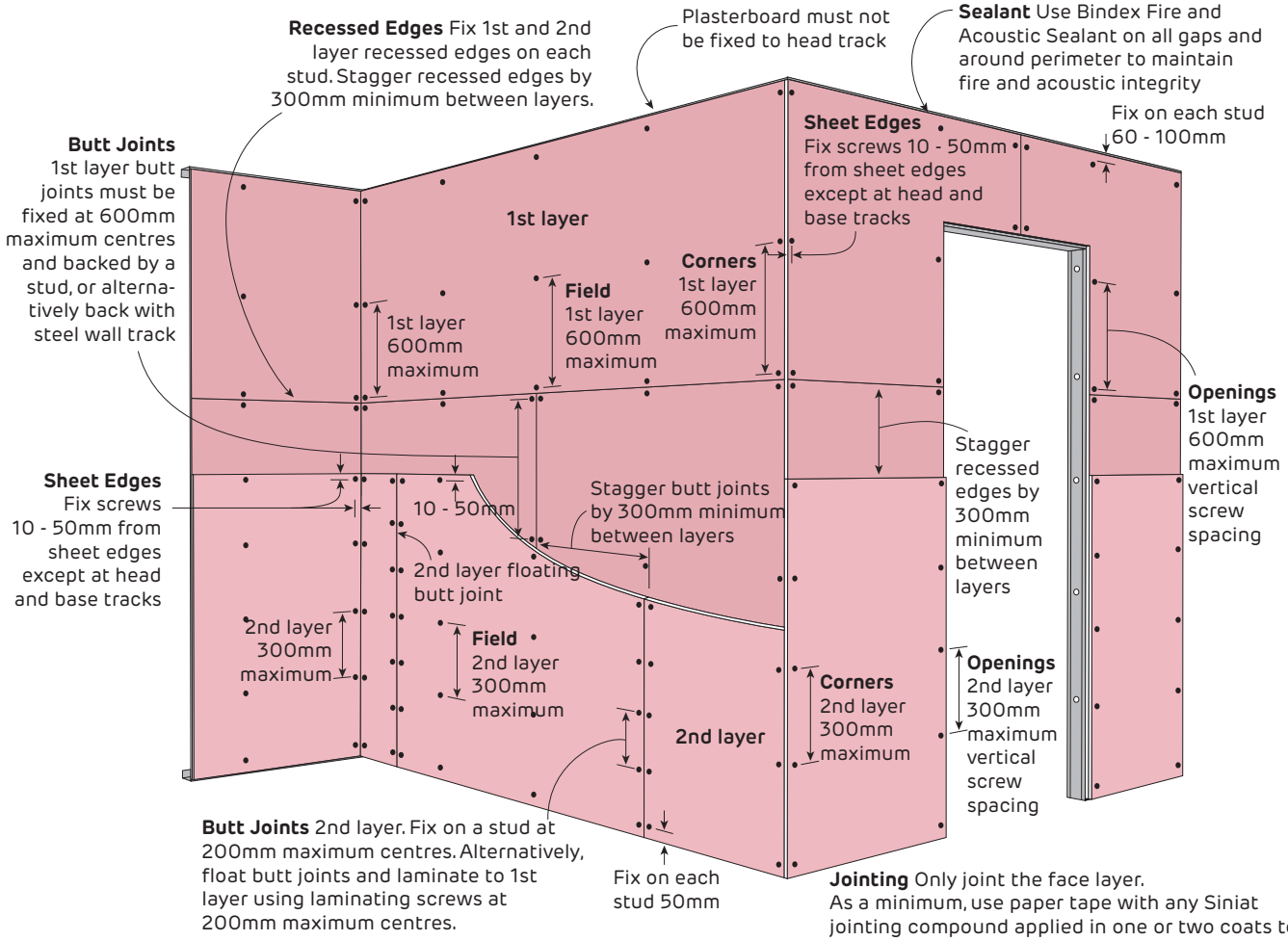
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 29 Fire Rated 2 Layers - Horizontal + Horizontal
Screw Only Method



2nd Layer Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

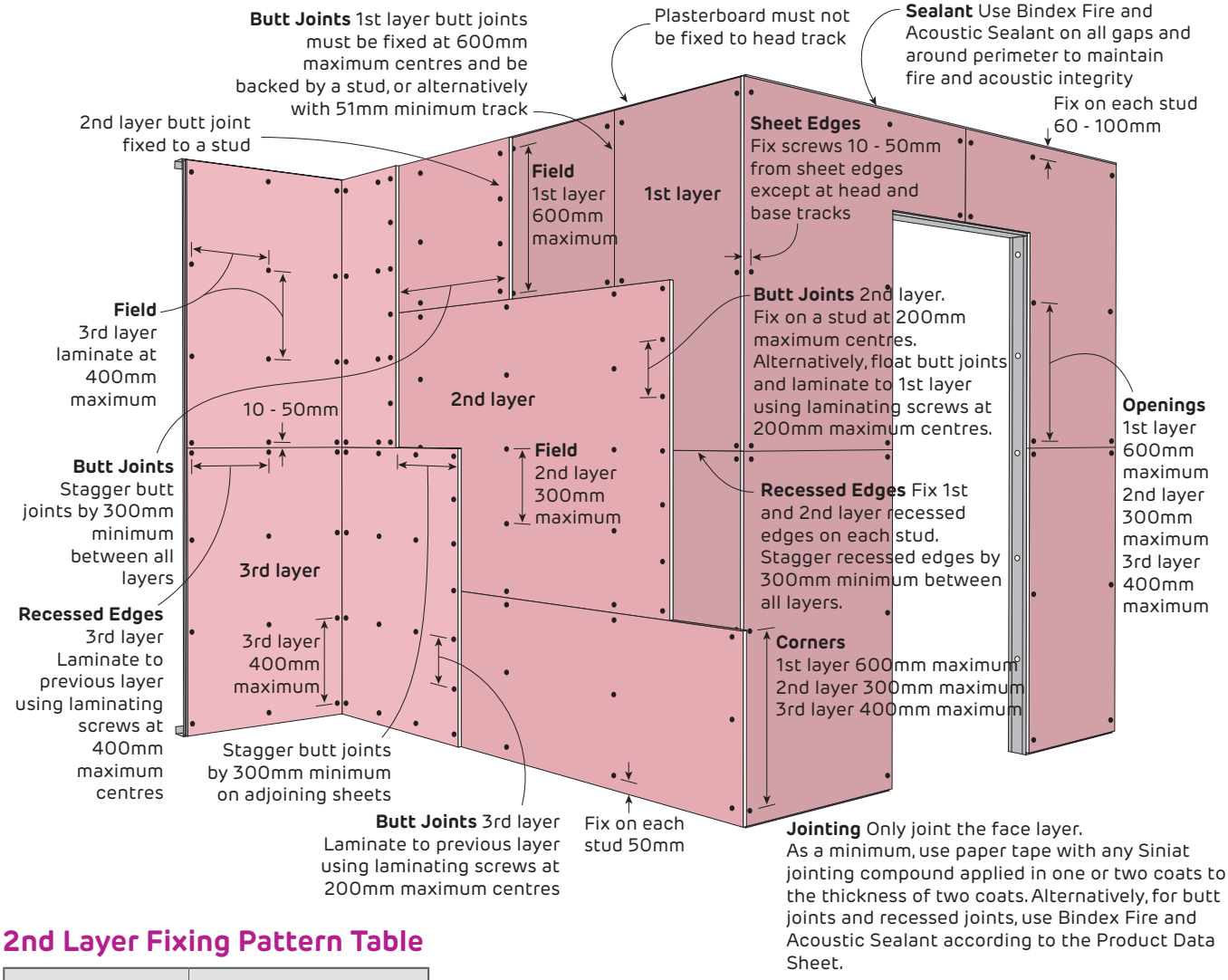
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 30 Fire Rated 3 Layers - Horizontal + Horizontal + Horizontal
Screw Only Method



2nd Layer Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

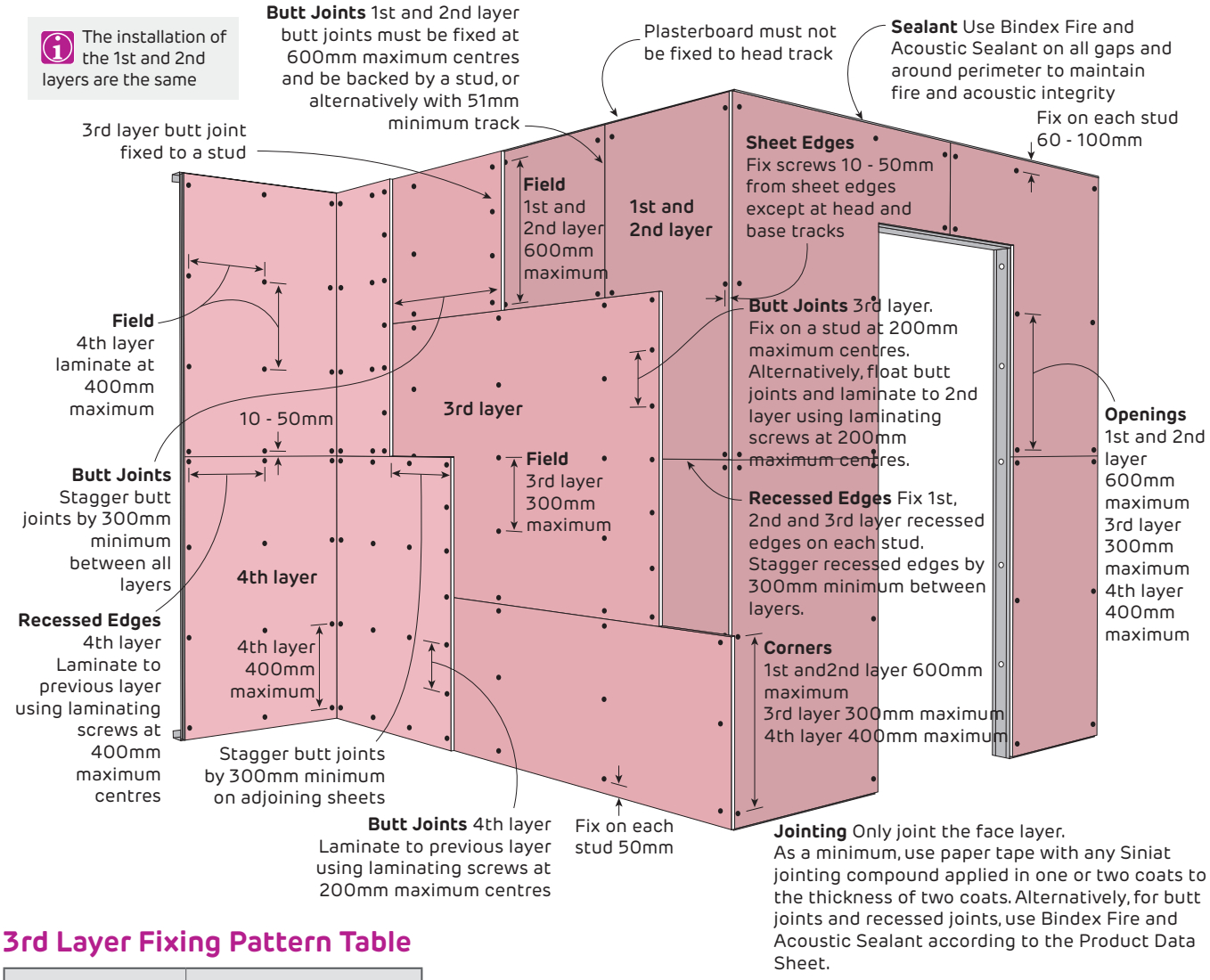
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.65	0.85	0.95	1.30
16mm	0.65	0.85	0.95	1.30

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 31 Fire Rated 4 Layers - Horizontal + Horizontal + Horizontal + Horizontal
Screw Only Method



3rd Layer Fixing Pattern Table

Sheet Width	Fixing Pattern
600mm	S S S (3)
900mm	S S S S (4)
1200mm	S S S S S (5)
1350mm	S S S S S S (6)
1400mm	S S S S S S (6)

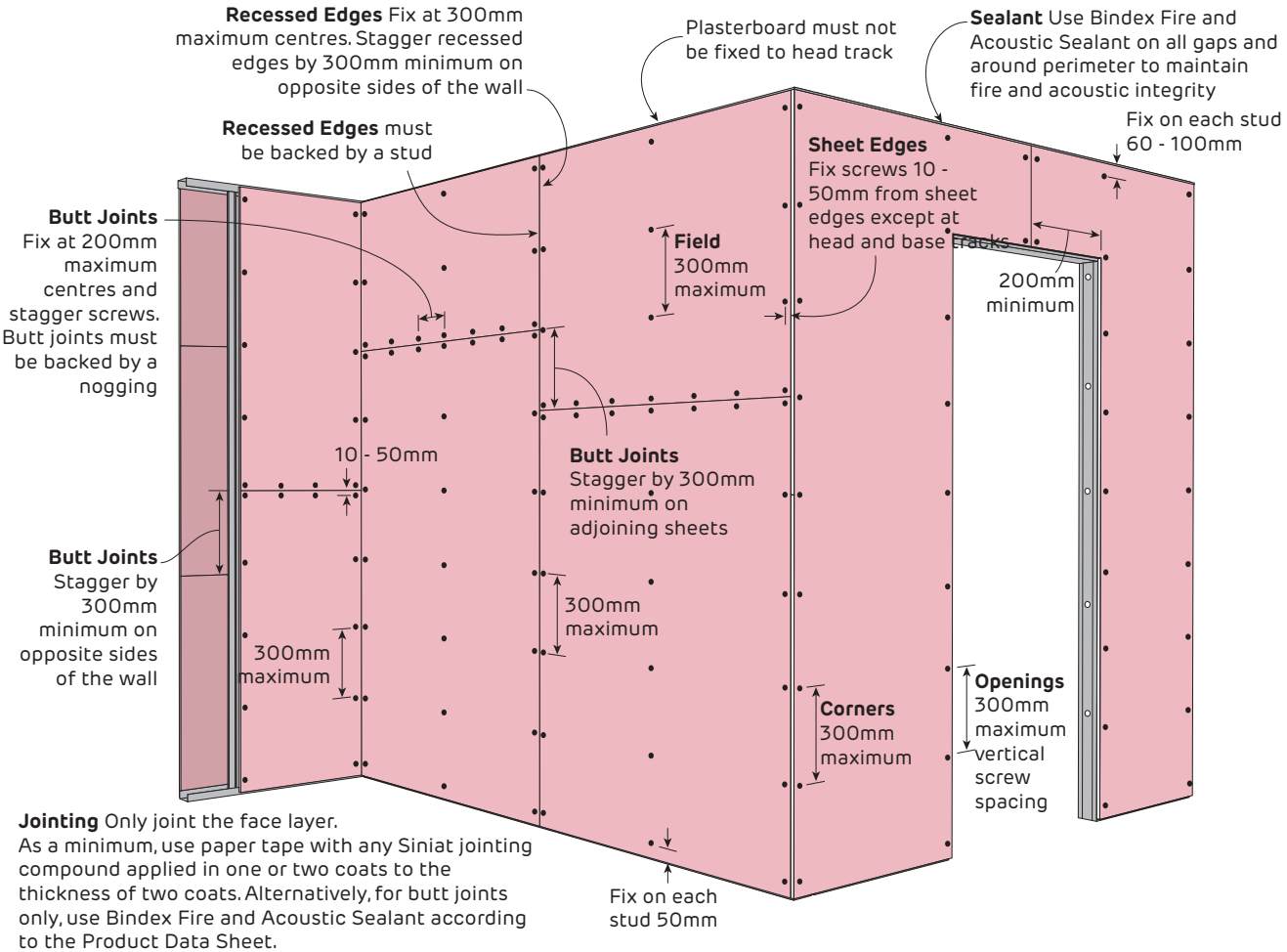
S = Screw

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.65	0.85	0.95	1.30
16mm	0.65	0.85	0.95	1.30

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 32 Fire Rated 1 Layer - Vertical
Screw Only Method

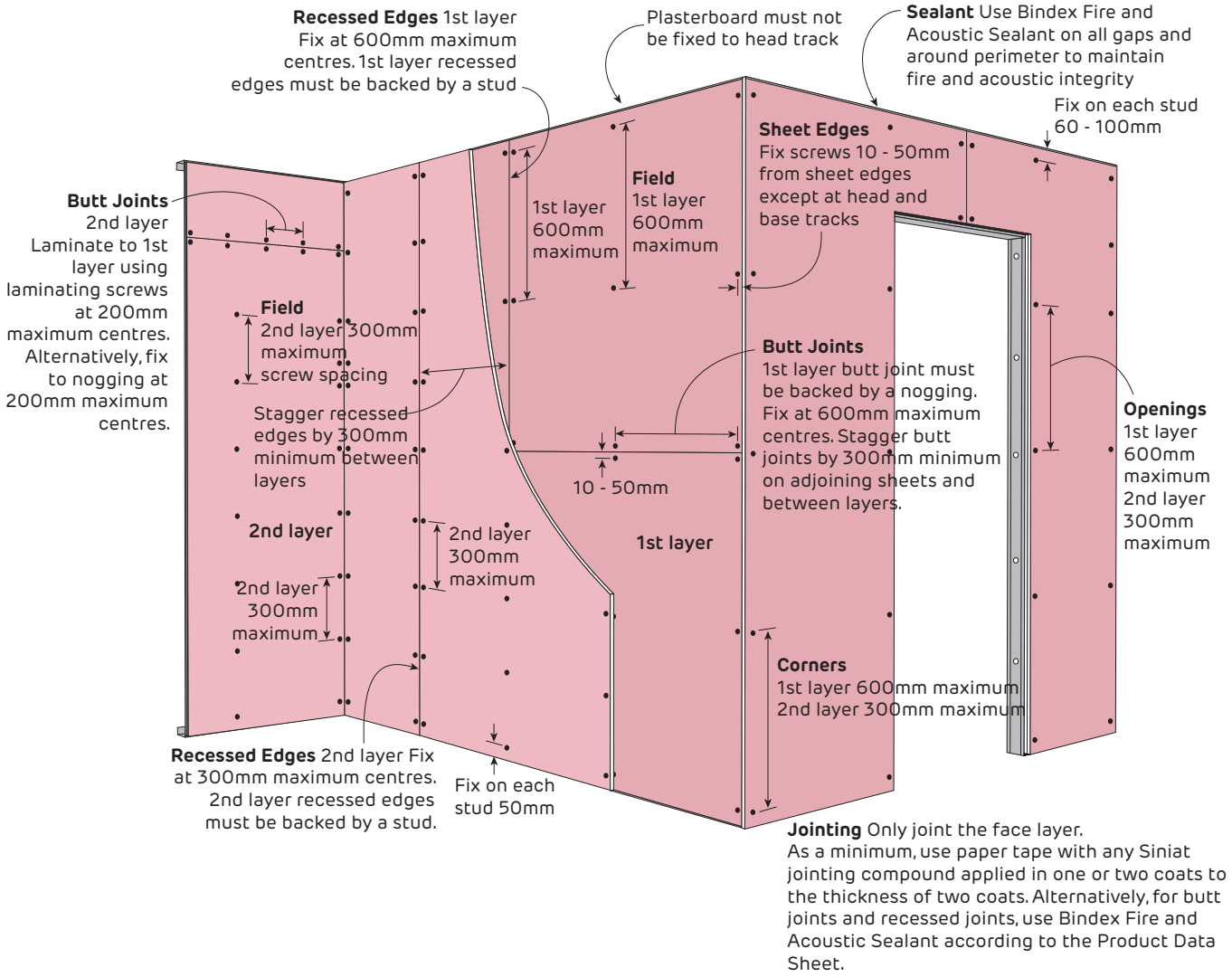


Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 33 Fire Rated 2 Layers - Vertical + Vertical
Screw Only Method

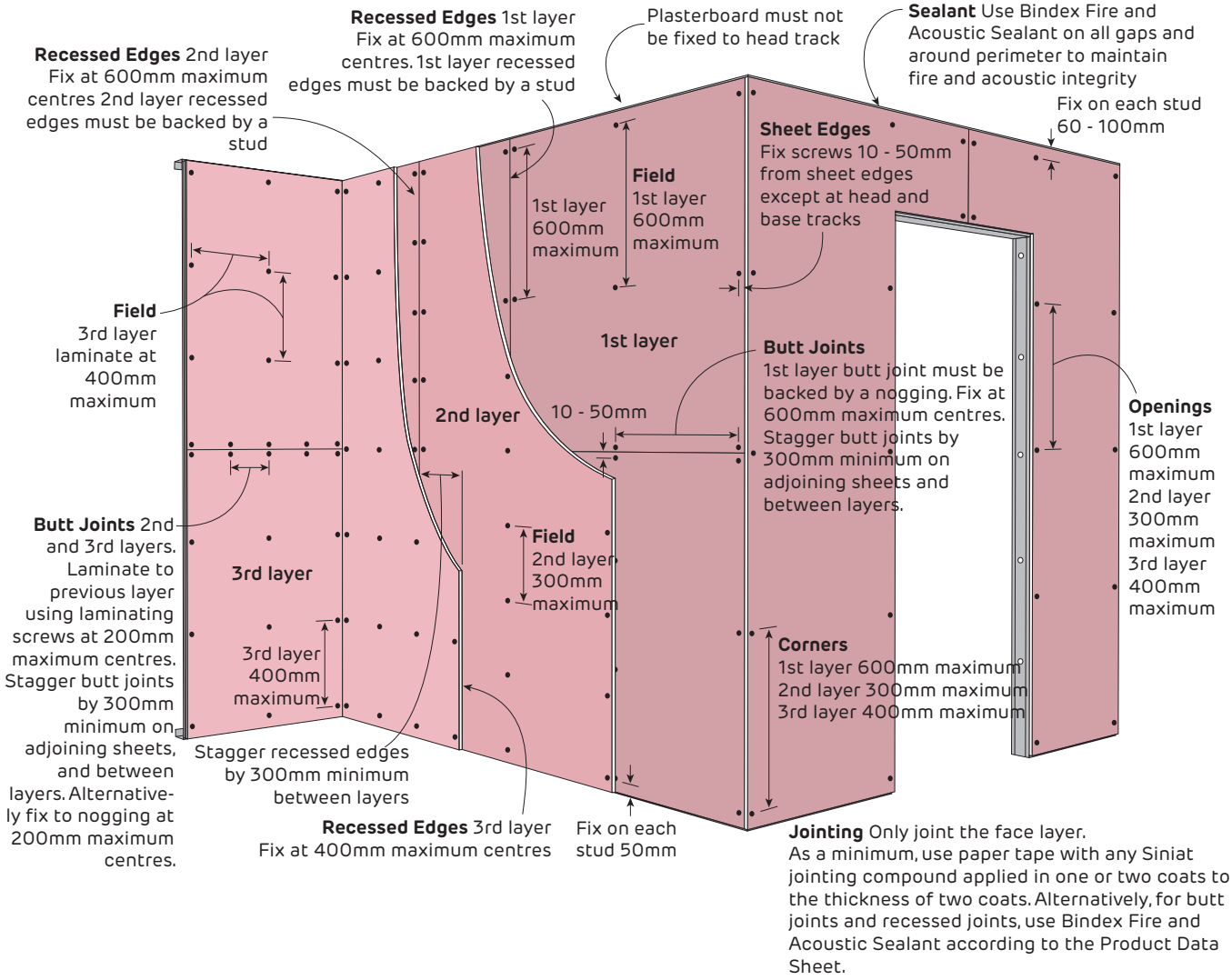


Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.85	1.15	1.30	1.70
16mm	0.85	1.15	1.30	1.70

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

FIGURE 34 Fire Rated 3 Layers - Vertical + Vertical + Vertical
Screw Only Method



Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard Thickness	Maximum Wall Stud Spacing			
	600mm	450mm	400mm	300mm
13mm	0.65	0.85	0.95	1.30
16mm	0.65	0.85	0.95	1.30

1. Calculations do not include the framing which must be independently designed to suit the desired loads.
2. If higher internal wind pressures are expected, please contact Siniat for specific design.

Non-Fire Rated
Head and Base Details for Internal Stud Walls - Lined Full Height

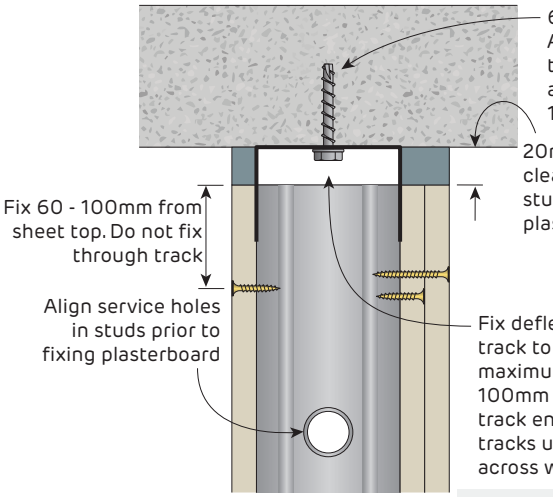


FIGURE 35 Wall Head
Deflection Head Track
Section

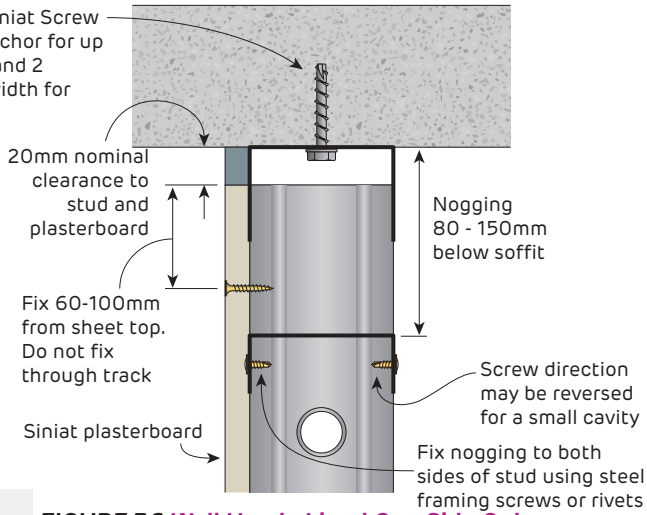


FIGURE 36 Wall Head - Lined One Side Only
Deflection Head Track
Section

Do not rigidly fix cornice to non-load bearing wall head and soffit, as slab deflection is expected.

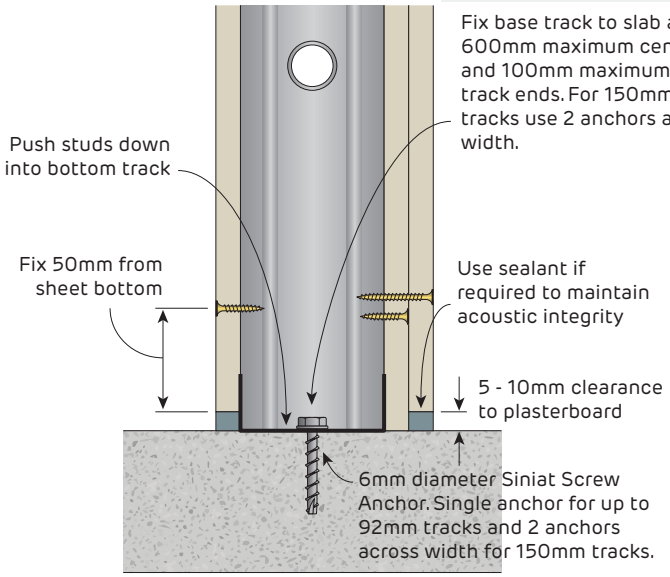


FIGURE 37 Wall Base
Section

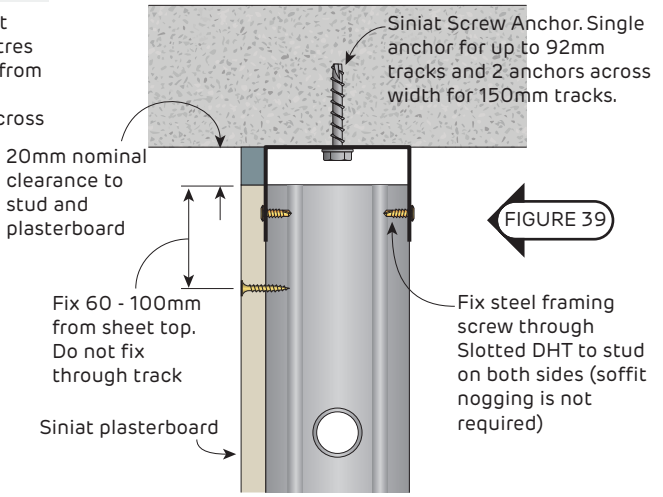


FIGURE 38 Wall Head - Lined One Side Only
Slotted Deflection Head Track
Section

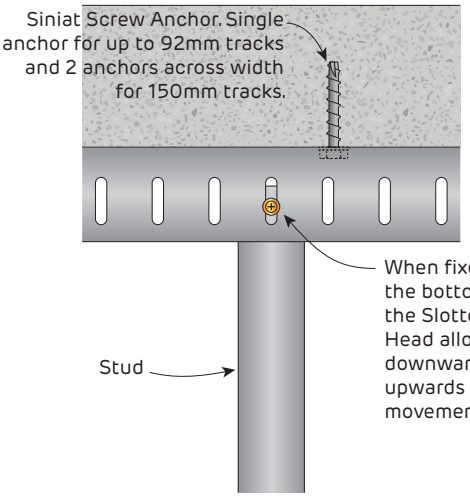


FIGURE 39 Wall Head
Slotted Deflection Head Track
Elevation

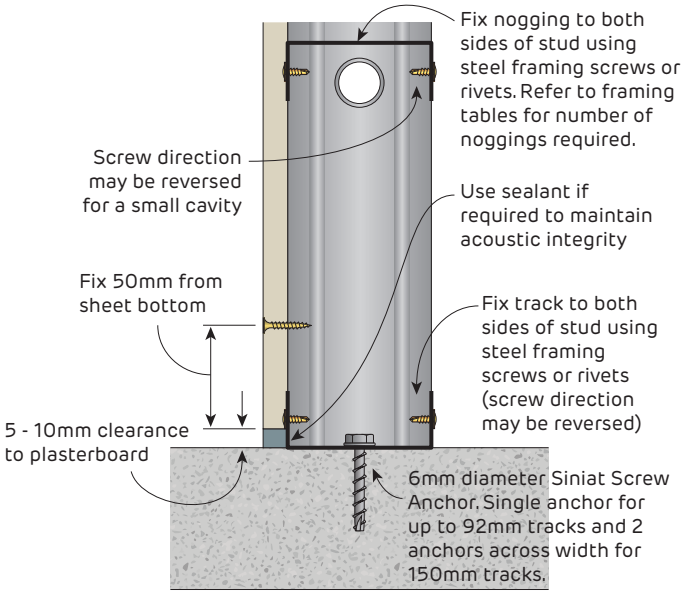


FIGURE 40 Wall Base - Lined One Side Only
Section

Non-Fire Rated
Head and Base Details for Internal Stud Walls - Partially Lined

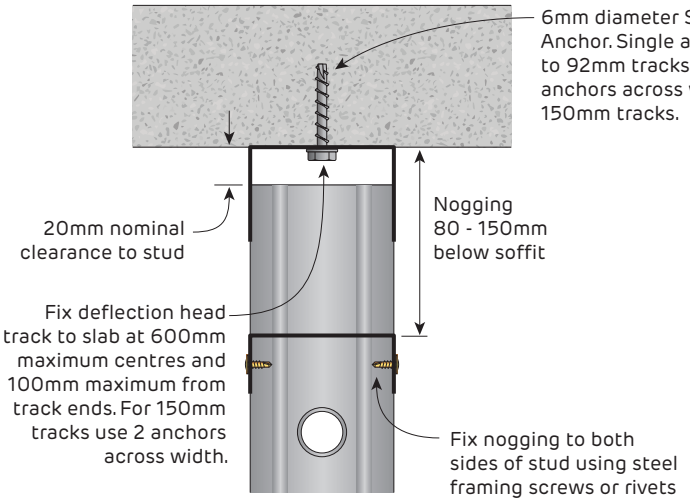


FIGURE 41 Wall Head - Partially Lined Wall
Option 1 - Deflection Head Track
Section

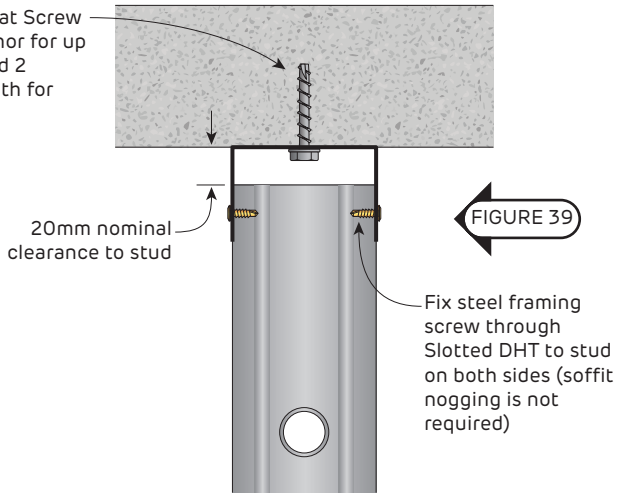


FIGURE 42 Wall Head - Partially Lined Wall
Option 2 - Slotted Deflection Head Track
Section

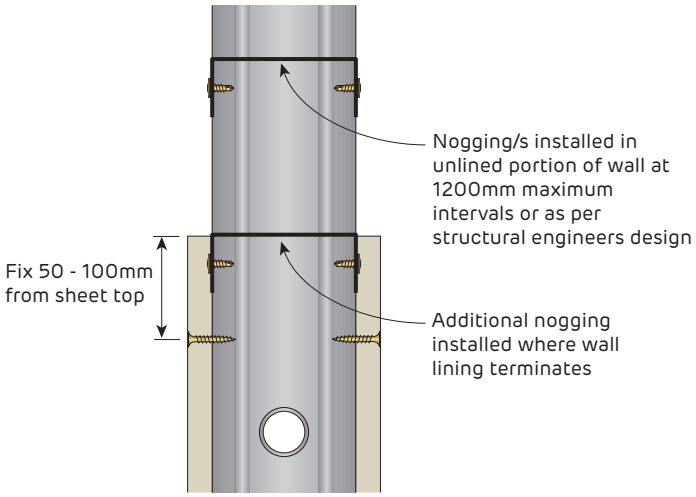


FIGURE 43 Partially Lined Wall
Lined on both sides
Section

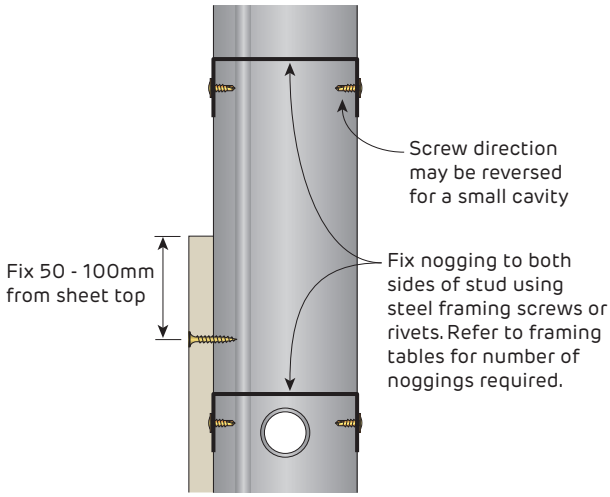


FIGURE 44 Partially Lined Wall
Lined on one side only
Section

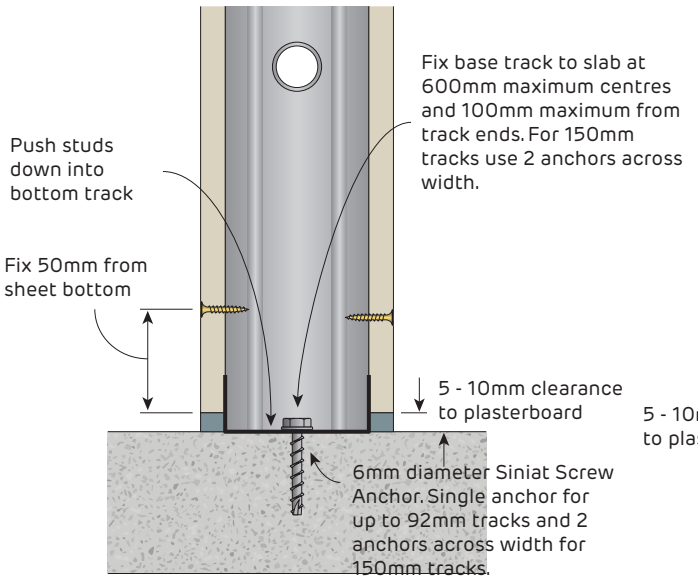


FIGURE 45 Wall Base
Section

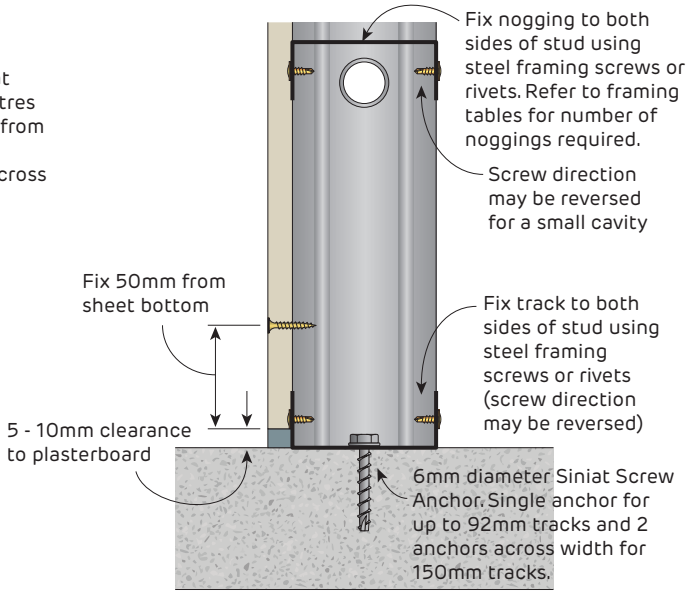


FIGURE 46 Wall Base - Lined One Side Only
Section

Non-Fire Rated
Head Finishing Details for Internal Stud Walls

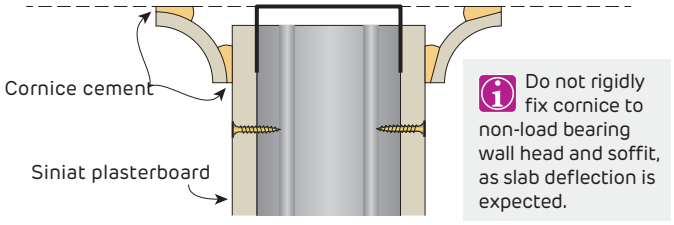


FIGURE 47 Wall Head - Cornice
Section

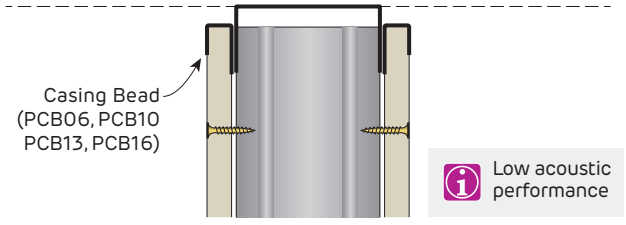


FIGURE 48 Wall Head - Casing Bead
Section

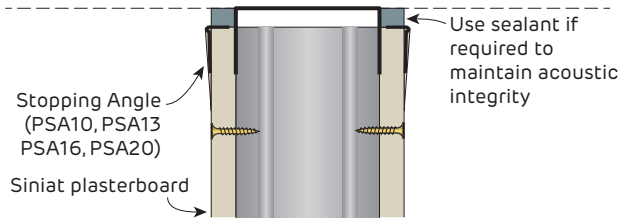


FIGURE 49 Wall Head - Stopping Angle
Section

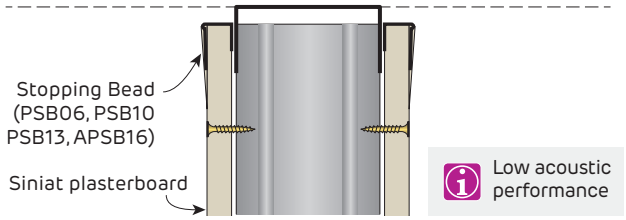


FIGURE 50 Wall Head - Stopping Bead
Section

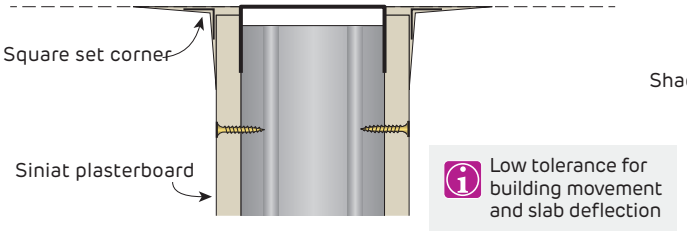


FIGURE 51 Wall Head - Square Set
Section

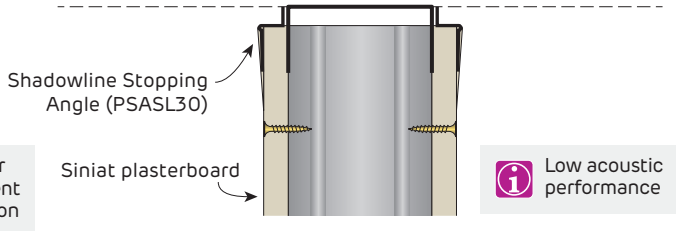


FIGURE 52 Wall Head - Shadowline Stopping Angle
Section

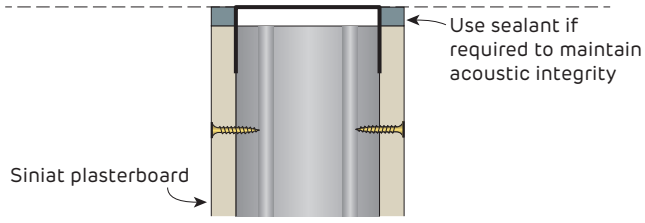


FIGURE 53 Wall Head - Bare finish with sealant
Section

Non-Fire Rated
Internal Stud Walls

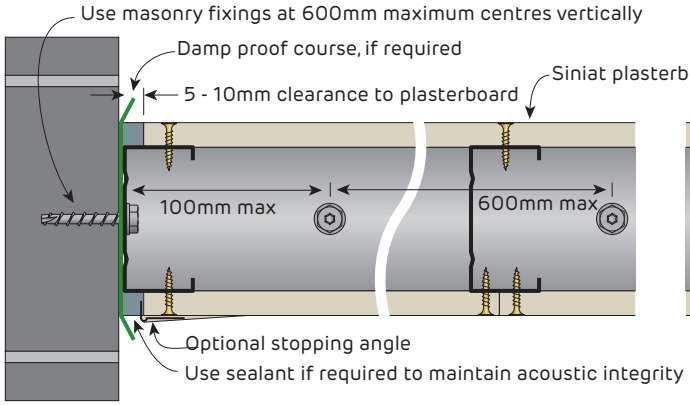


FIGURE 54 Wall End To Masonry
Plan

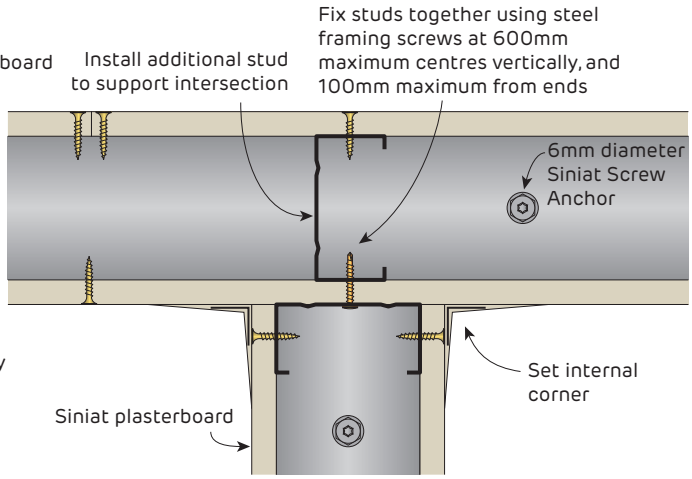


FIGURE 55 Intersecting Wall
Plan

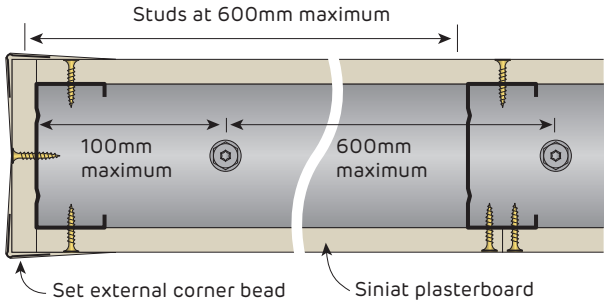


FIGURE 56 Wall End
Plan

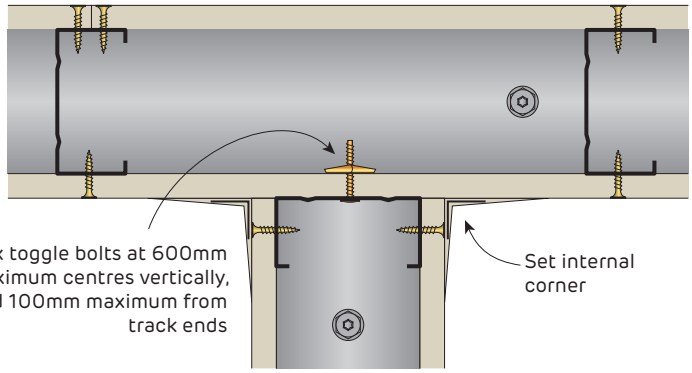


FIGURE 57 Intersecting Wall
Plan

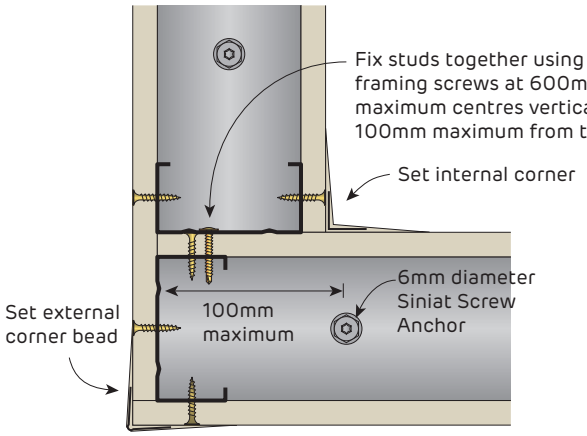


FIGURE 58 Wall Corner
Plan

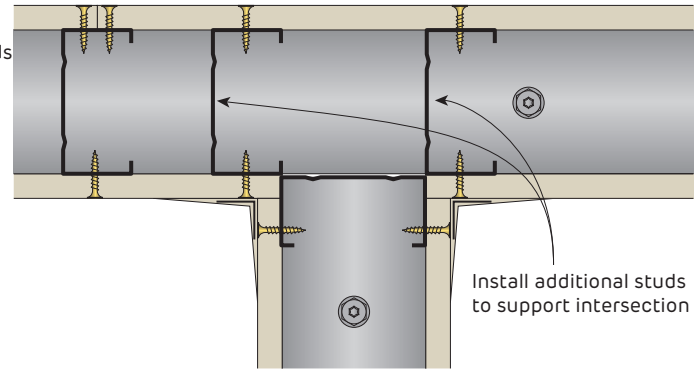


FIGURE 59 Intersecting Wall
Plan

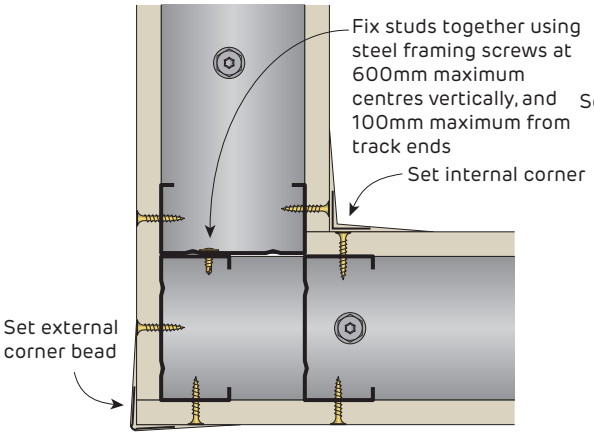


FIGURE 60 Wall Corner
Plan

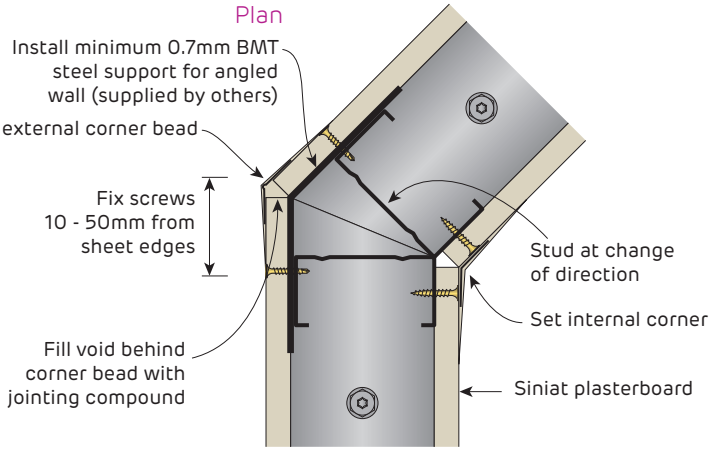


FIGURE 61 Obtuse Angle Corner
Plan

Fire Rated

Head and Base Details for Internal Stud Walls - Lined Full Height - Single Layer

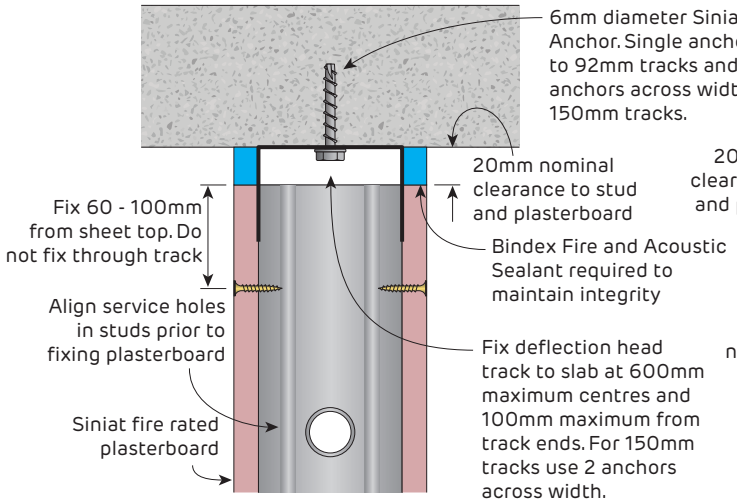


FIGURE 62 Wall Head
Deflection Head Track
Section

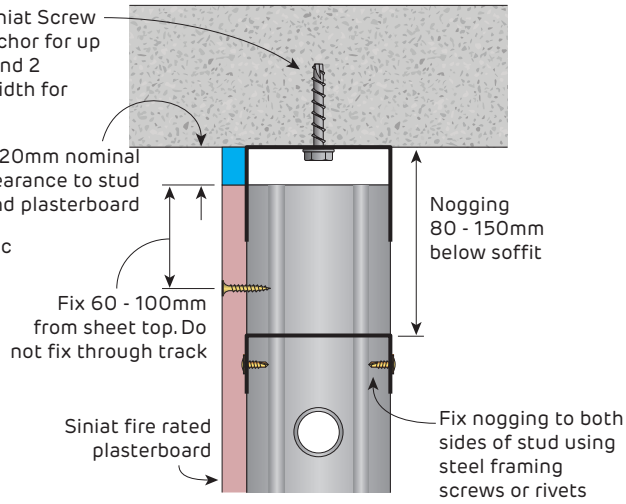


FIGURE 63 Wall Head - Lined One Side Only
Deflection Head Track
Section

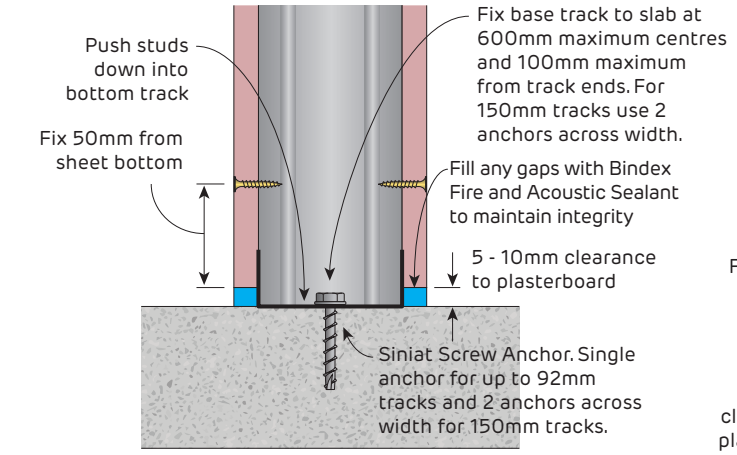


FIGURE 64 Wall Base
Section

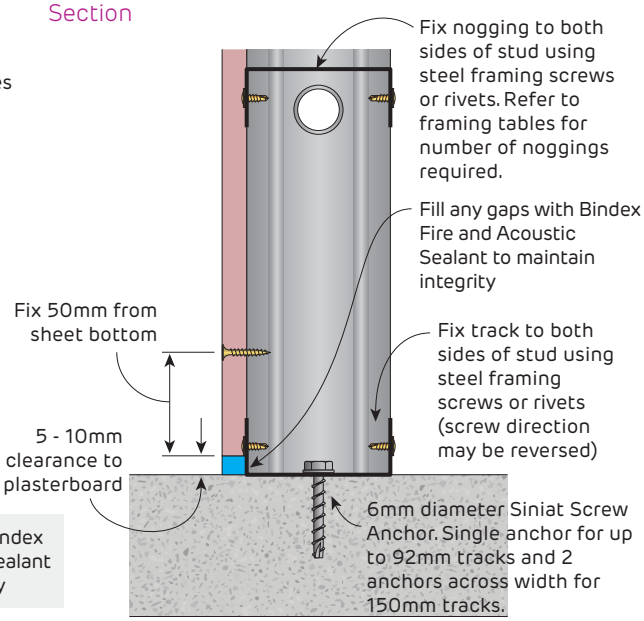


FIGURE 65 Wall Base - Lined One Side Only
Section

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

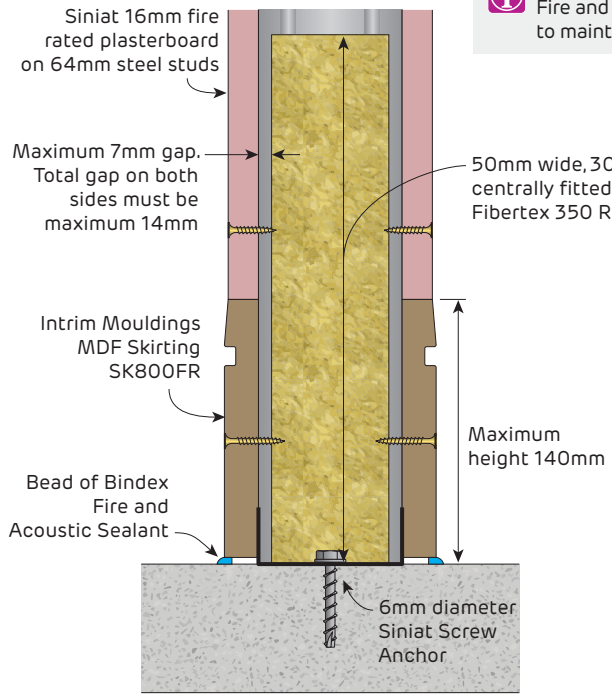


FIGURE 66 Wall Base with MDF Skirting
FRL -/60/60 FC03351 Rev A - Section

Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

Fire Rated

Head and Base Details for Internal Stud Walls - Lined Full Height - Up to 2 Layers

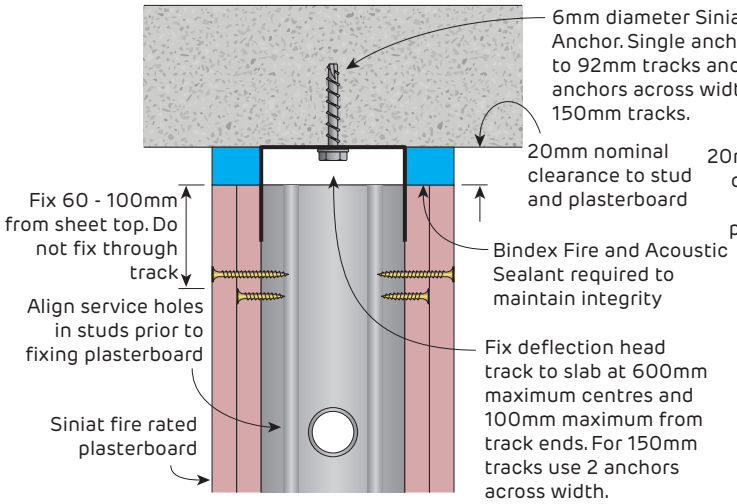


FIGURE 67 Wall Head
Deflection Head Track
Up to 2 layers on either side - Section

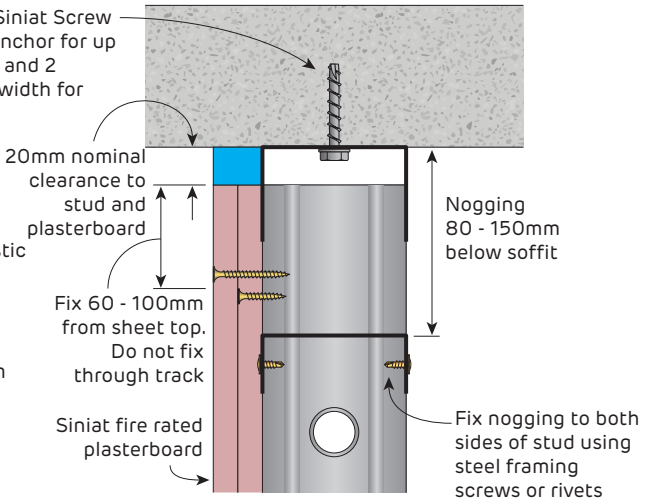


FIGURE 68 Wall Head - Lined One Side Only
Deflection Head Track
Up to 2 layers - Section

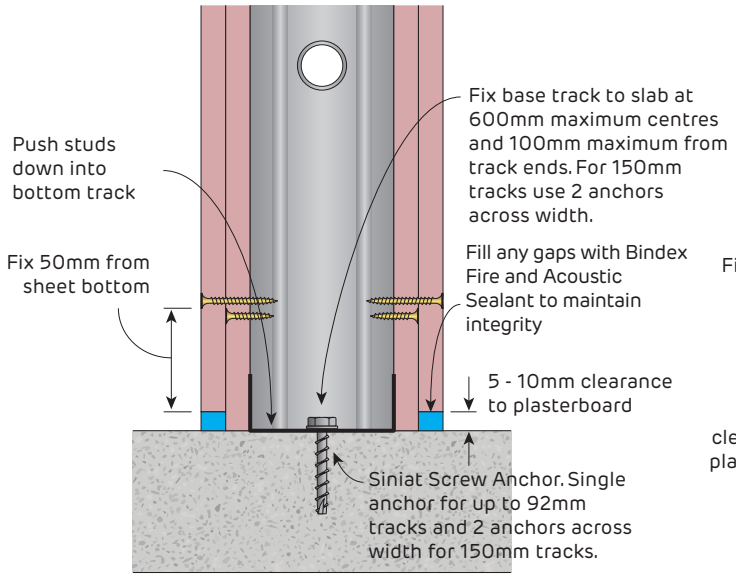


FIGURE 69 Wall Base
Up to 2 layers on either side
Section

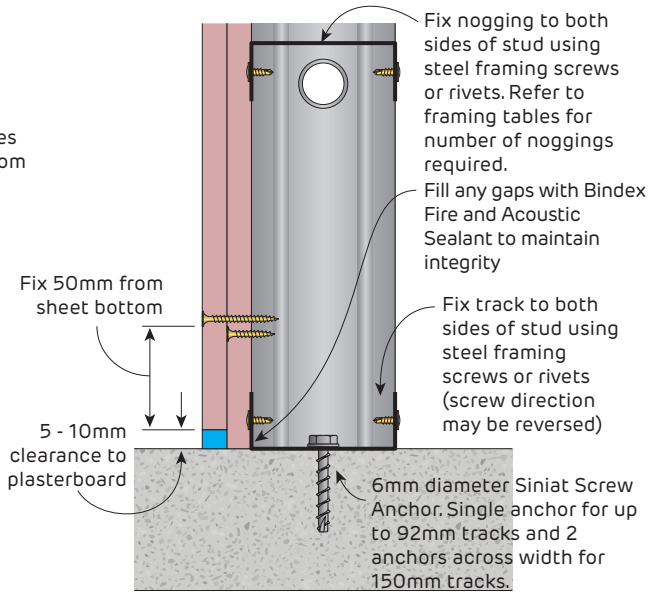


FIGURE 70 Wall Base - Lined One Side Only
Up to 2 layers
Section

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

Fire Rated

Head and Base Details for Internal Stud Walls - Lined Full Height - Up to 3 Layers

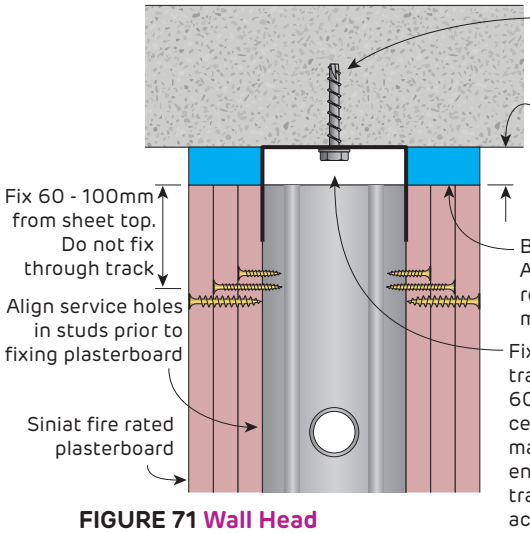


FIGURE 71 Wall Head
Deflection Head Track
Up to 3 layers on either side - Section

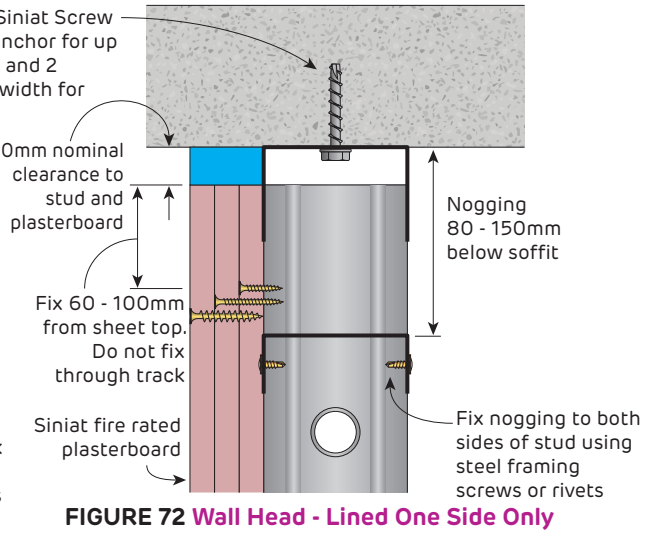


FIGURE 72 Wall Head - Lined One Side Only
Deflection Head Track
Up to 3 layers - Section

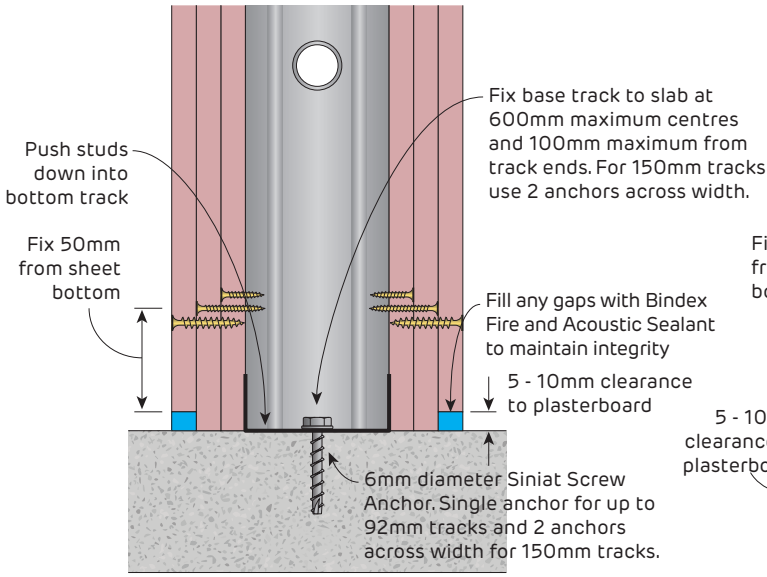


FIGURE 73 Wall Base
Up to 3 layers on either side
Section

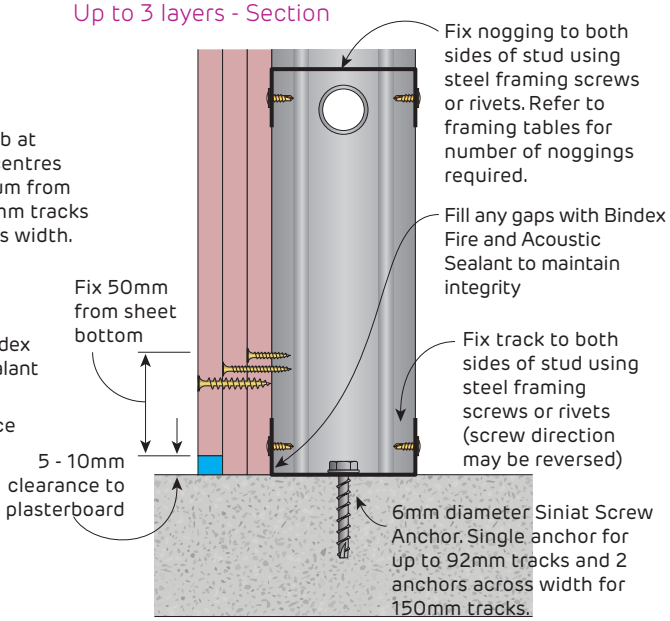


FIGURE 74 Wall Base - Lined One Side Only
Up to 3 layers
Section

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Outermost plasterboard sheets with no gap at the base are at risk of wicking

Fire Rated

Head and Base Details for Internal Stud Walls - Lined Full Height - Up to 3 Layers

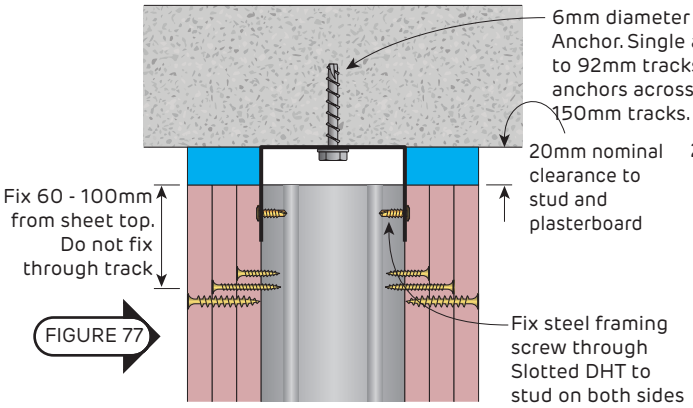


FIGURE 75 Wall Head
Slotted Deflection Head Track
Up to 3 layers on either side - Section

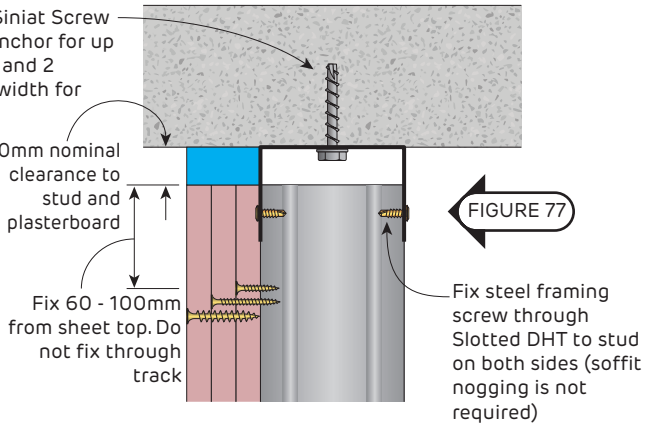


FIGURE 76 Wall Head - Lined One Side Only
Slotted Deflection Head Track
Up to 3 layers - Section

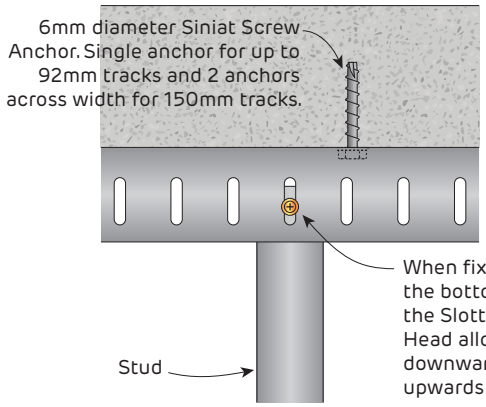
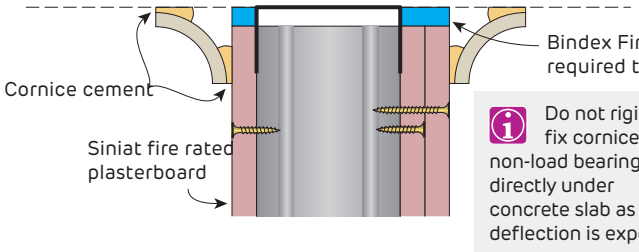


FIGURE 77 Wall Head
Slotted Deflection Head Track
Elevation

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Head Finishing Details for Internal Stud Walls



Do not rigidly fix cornice to non-load bearing wall directly under concrete slab as deflection is expected.

FIGURE 78 Wall Head - Cornice
Section

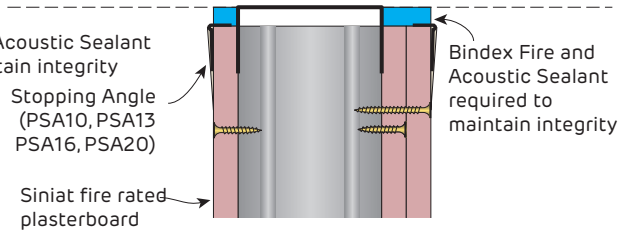
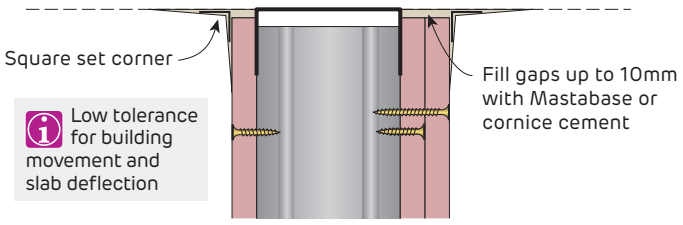


FIGURE 79 Wall Head - Stopping Angle
Section



Low tolerance for building movement and slab deflection

FIGURE 80 Wall Head - Square Set
Section

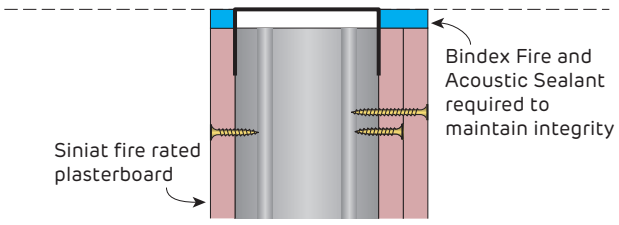


FIGURE 81 Wall Head - Bare finish with sealant
Section

Fire Rated
Internal Stud Walls

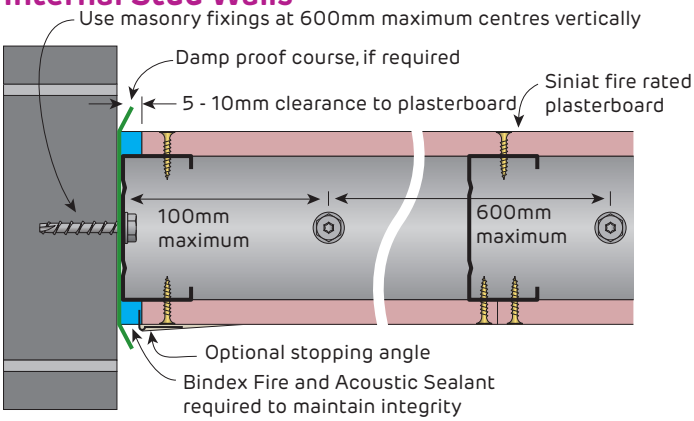


FIGURE 82 Wall End To Masonry
Plan

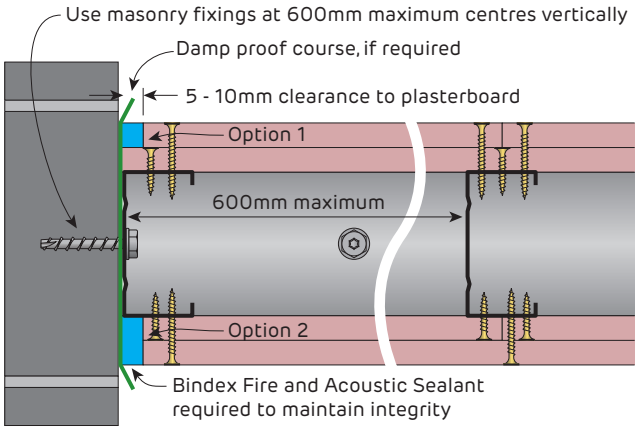


FIGURE 83 Wall End To Masonry
Plan

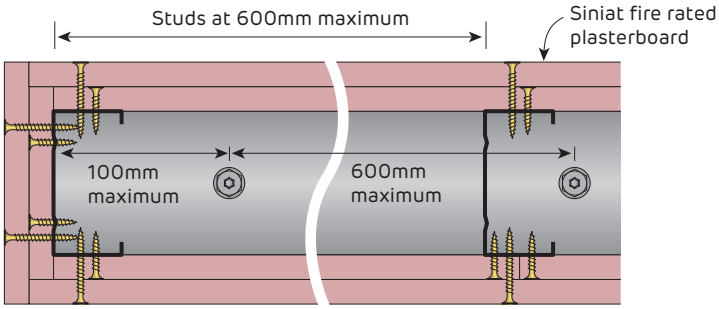


FIGURE 84 Wall End
Plan

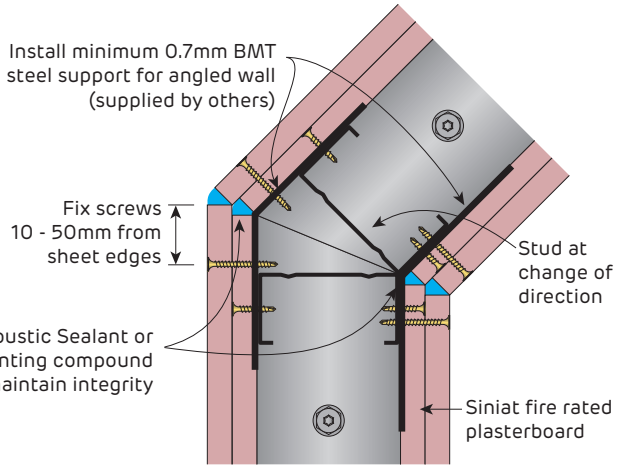


FIGURE 85 Obtuse Angle Corner
Plan

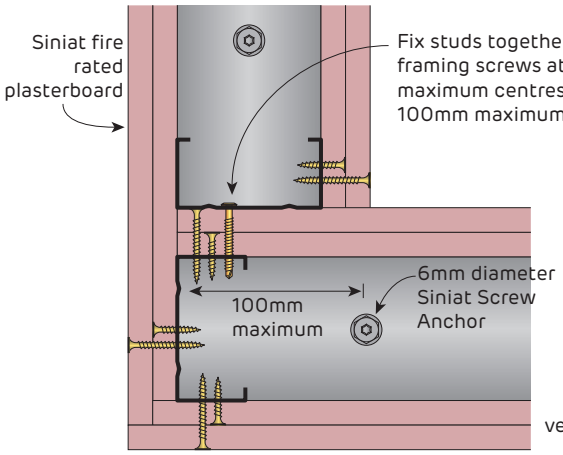


FIGURE 86 90° Corner
Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

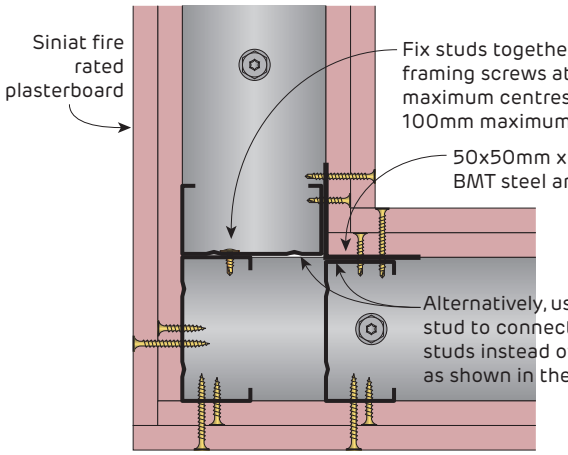


FIGURE 87 90° Corner
Plan

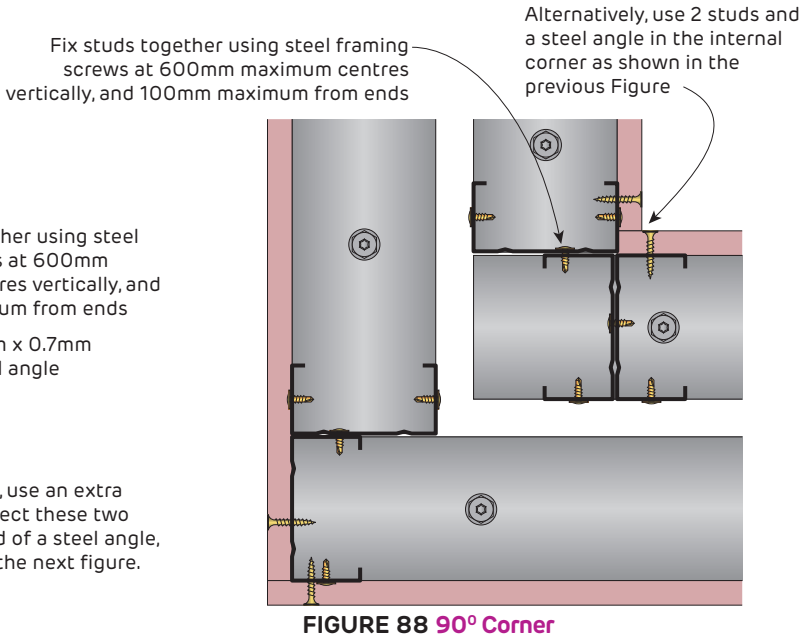


FIGURE 88 90° Corner
Double stud wall
Plan

Fire Rated
Internal Stud Walls

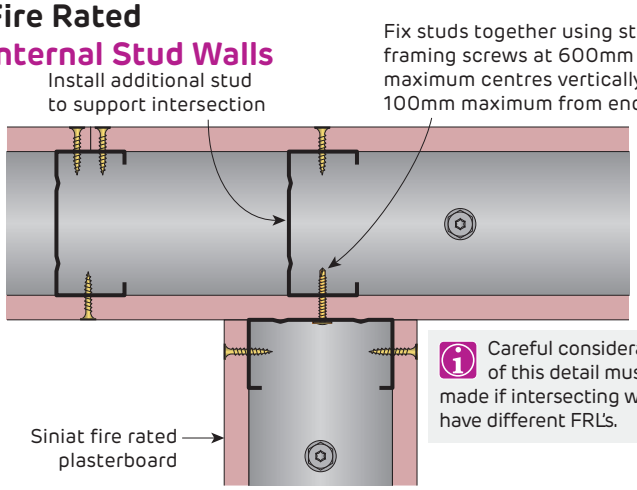


FIGURE 89 Intersecting Wall
Plan

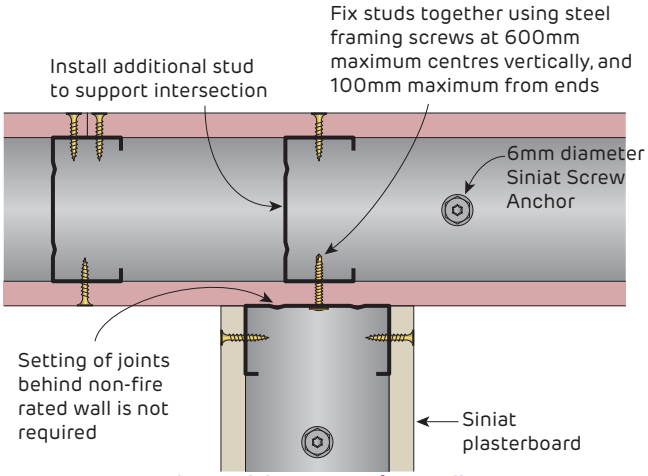


FIGURE 90 Intersecting Wall
Plan

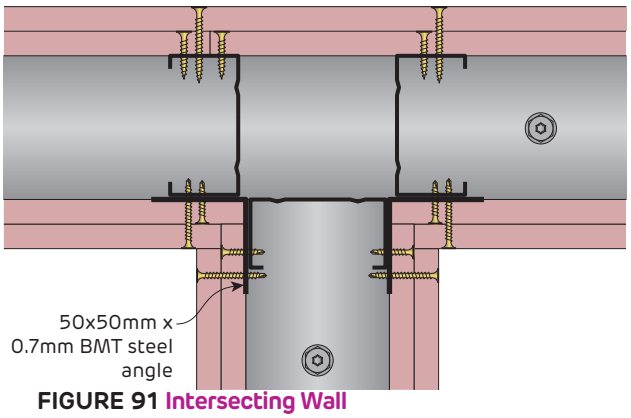


FIGURE 91 Intersecting Wall
Lining and FRL of both intersecting walls must be the same
Plan

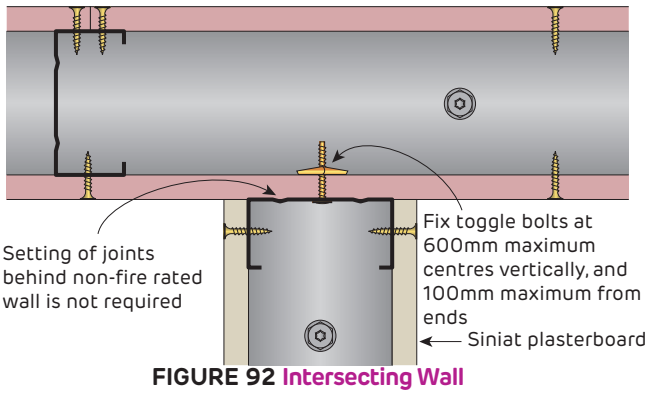


FIGURE 92 Intersecting Wall
Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

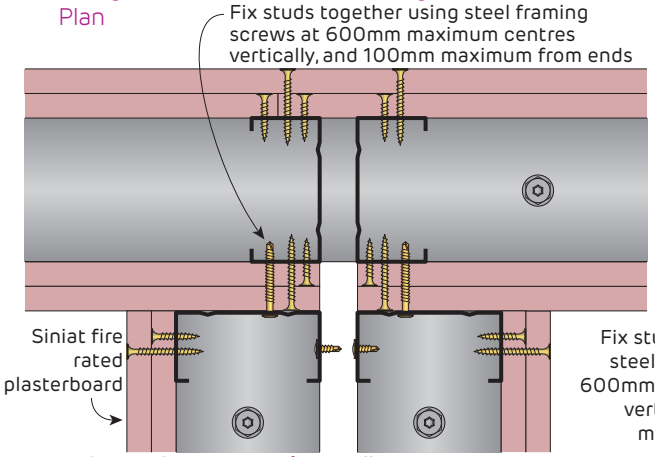


FIGURE 93 Intersecting Wall
Lining and FRL of both intersecting walls must be the same
Plan

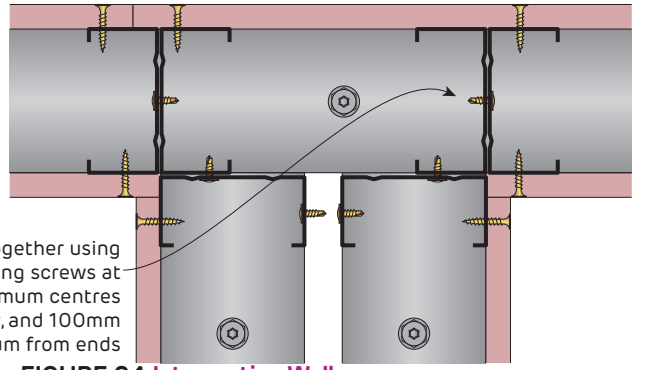


FIGURE 94 Intersecting Wall
Lining and FRL of both intersecting walls must be the same
Plan

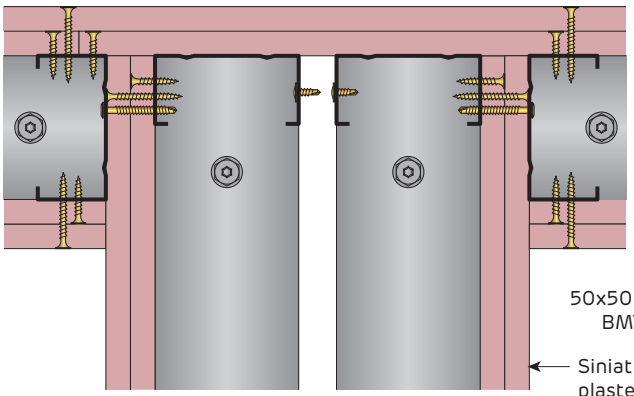


FIGURE 95 Intersecting Wall
Plan

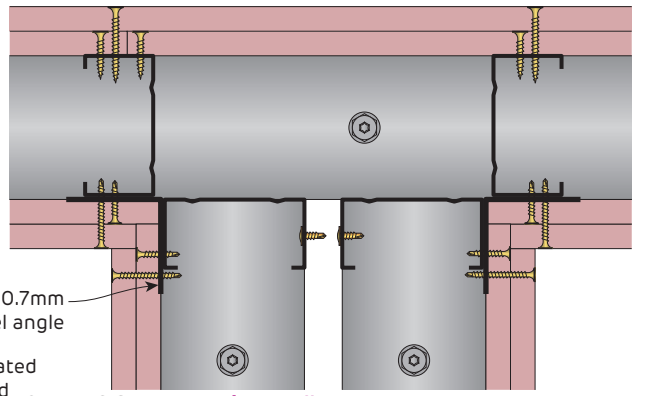


FIGURE 96 Intersecting Wall
Lining and FRL of both intersecting walls must be the same - Plan

Fire Rated
Internal Stud Walls

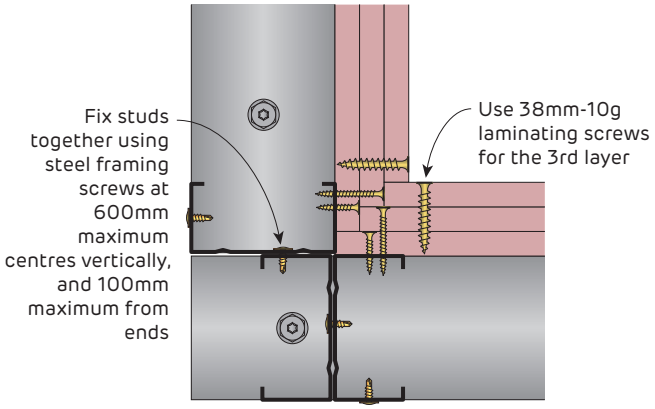


FIGURE 97 90° Internal Corner
Plan

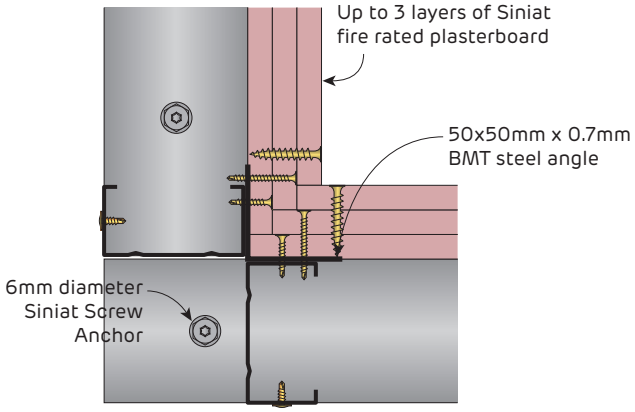


FIGURE 98 90° Internal Corner
Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

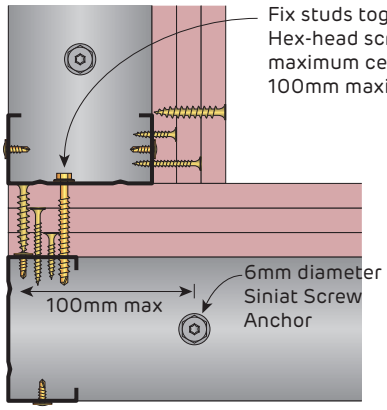


FIGURE 99 90° Internal Corner
Plan

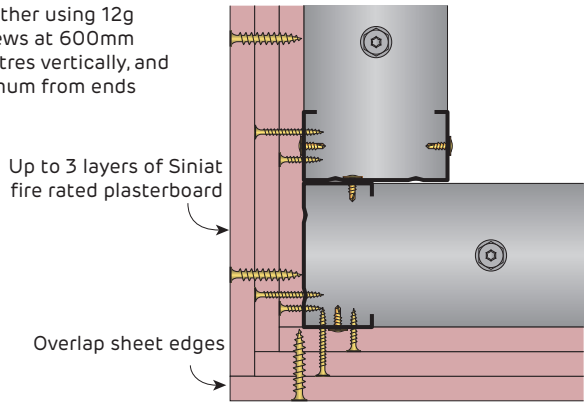


FIGURE 100 90° External Corner
Plan

Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

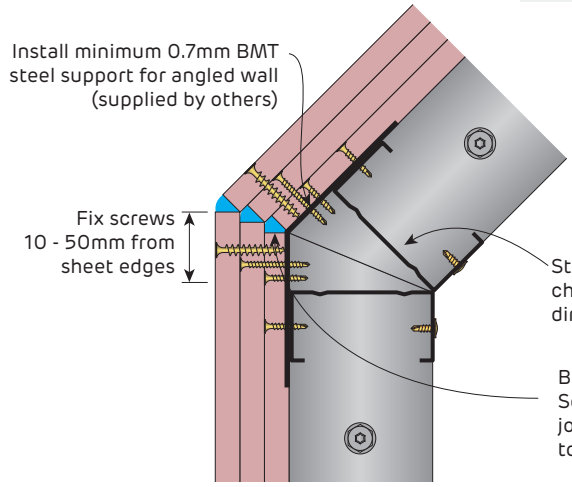


FIGURE 101 Obtuse Angle Corner
Plan

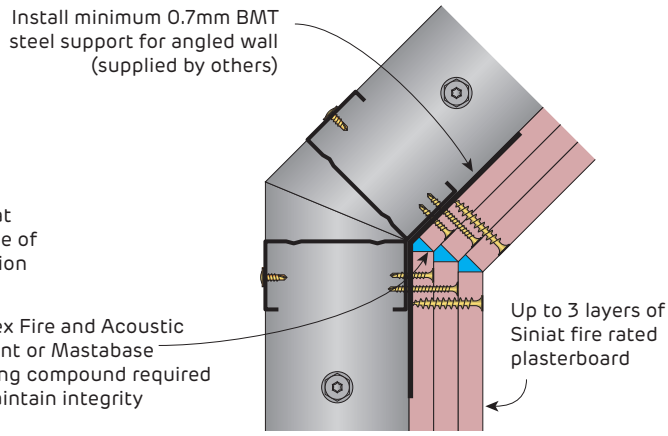


FIGURE 102 Obtuse Angle Corner
Plan

Fire Rated
Internal Stud Walls to Curtain Walls

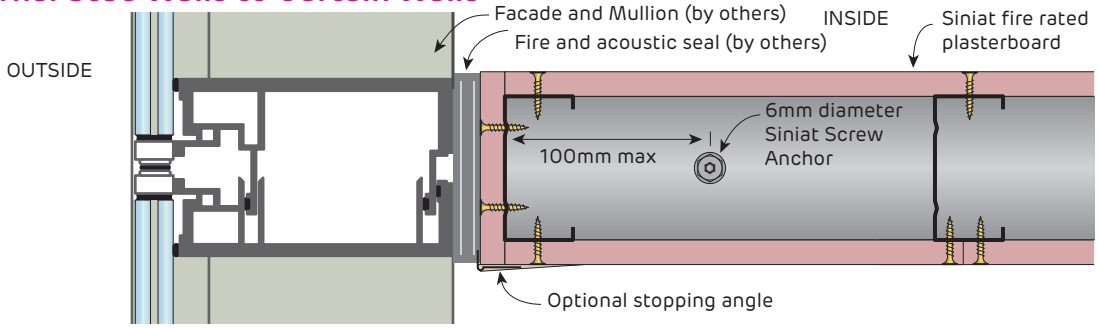


FIGURE 103 Internal Wall to Curtain Wall Mullion
Plan

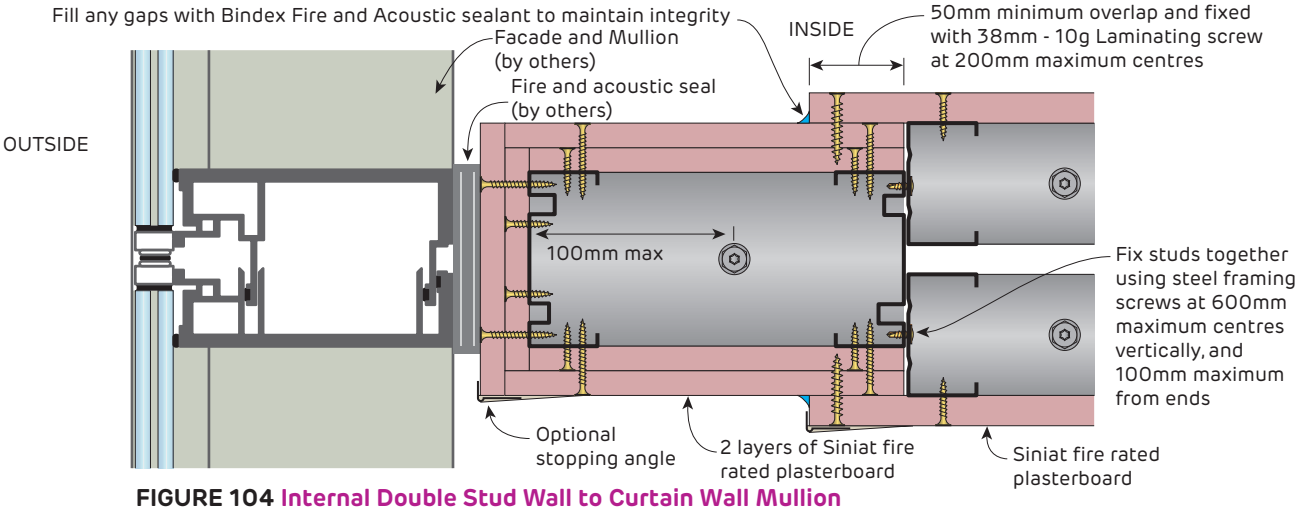


FIGURE 104 Internal Double Stud Wall to Curtain Wall Mullion
Plan

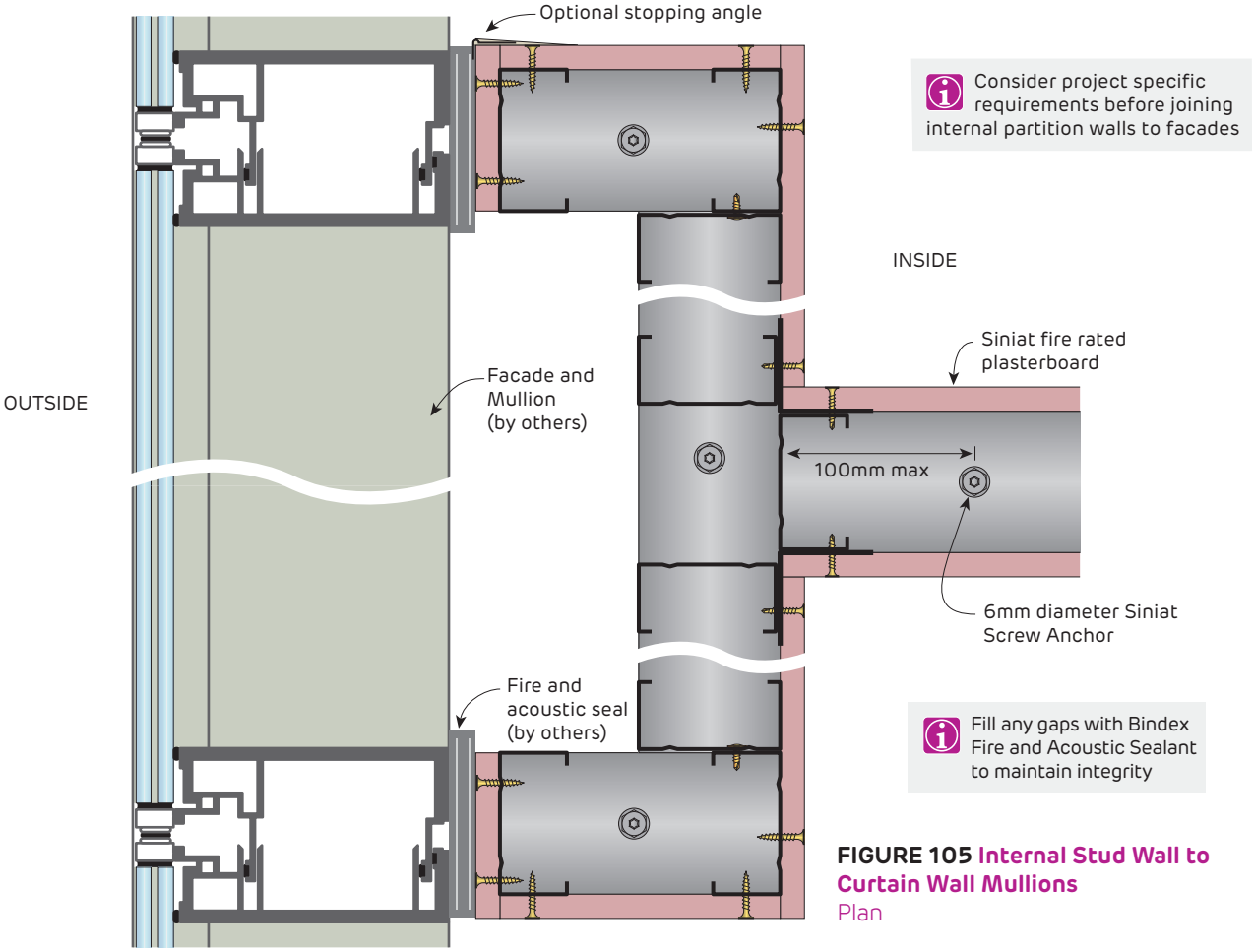
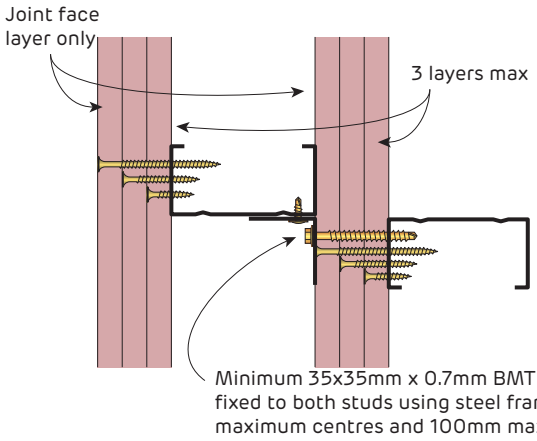


FIGURE 105 Internal Stud Wall to Curtain Wall Mullions
Plan

Fire Rated
Internal Stud Wall Built From One Side Only



Joint face layer only

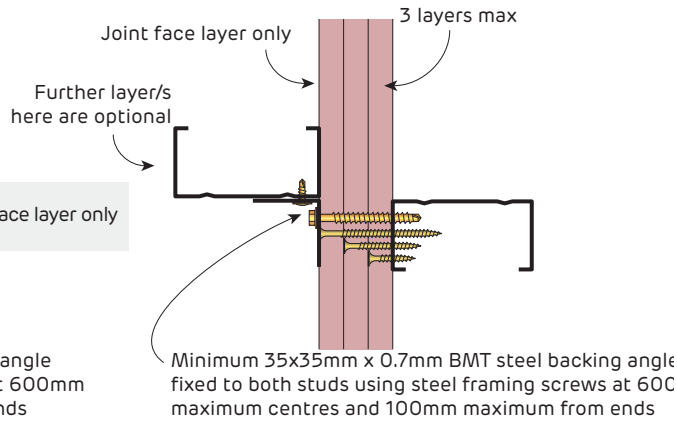
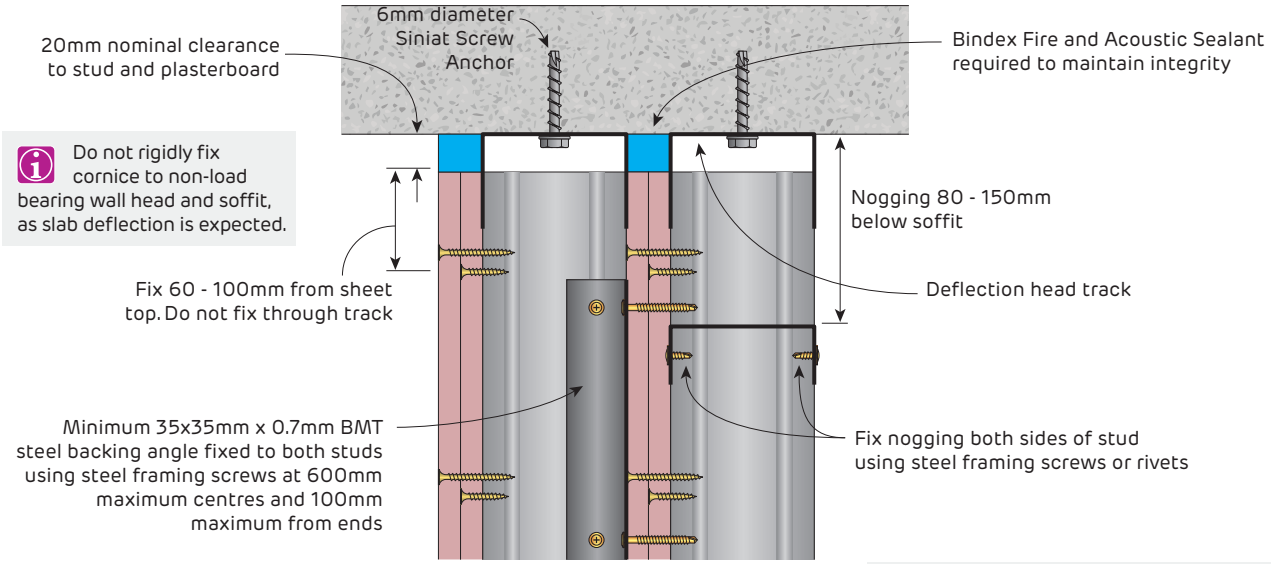


FIGURE 106 Fire Rated Wall Configuration
Fire rated from both directions
Built from one side only - Plan

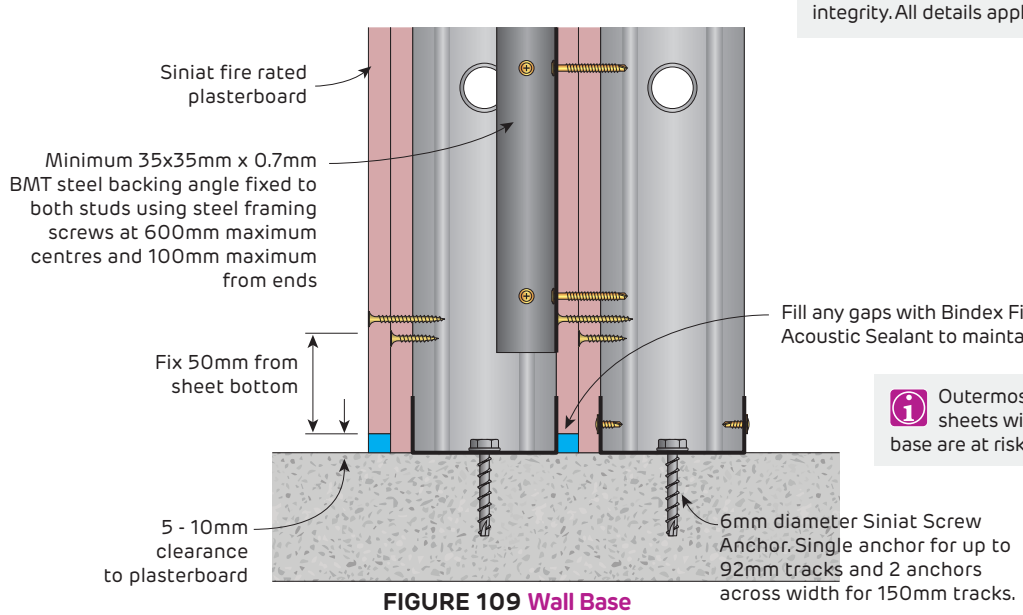
FIGURE 107 Fire Rated Wall Configuration
Fire rated from both directions
Built from one side only - Plan



Set the face layer of both sets of fire rated plasterboard layers

FIGURE 108 Wall Head
Fire rated from both directions
Built from one side only - Section

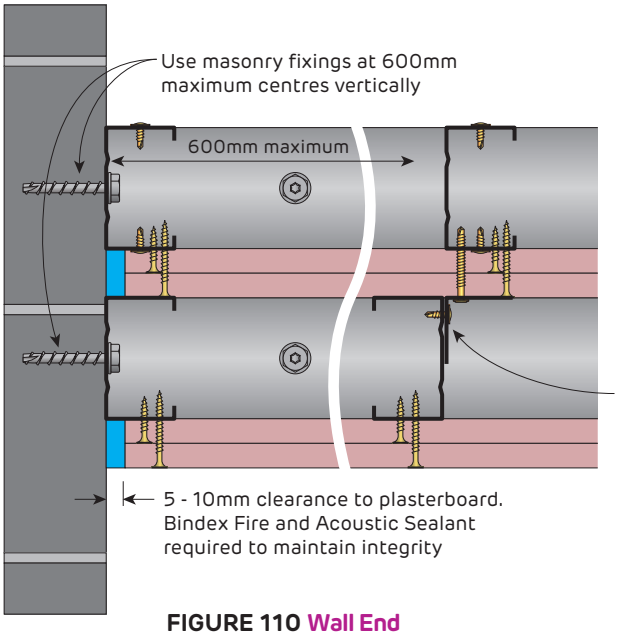
For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.



Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

FIGURE 109 Wall Base
Fire rated from both directions
Built from one side only - Section

Fire Rated
Internal Stud Wall Built From One Side Only



Set the face layer of both sets of fire rated plasterboard layers

FIGURE 110 Wall End
Fire rated from both directions
Built from one side only - Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

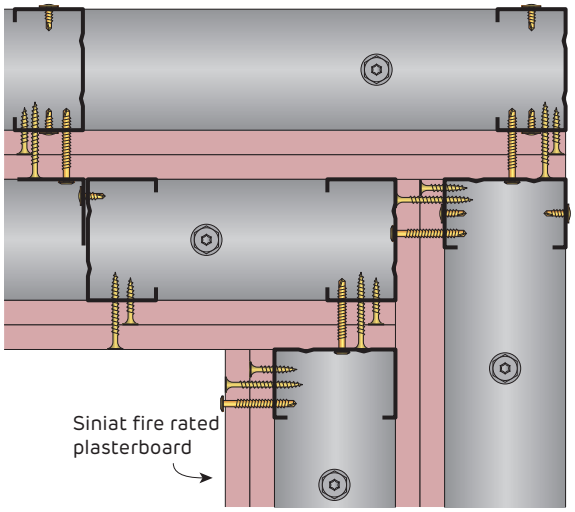


FIGURE 111 Wall Internal Corner
Fire rated from both directions
Built from one side only - Plan

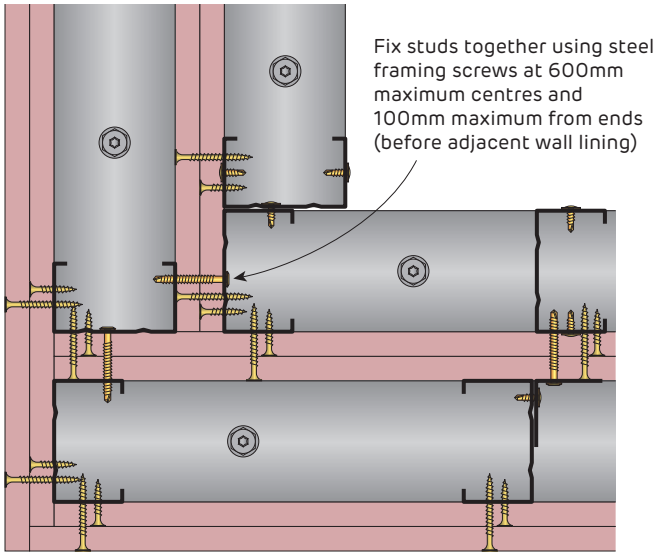


FIGURE 112 Wall External Corner
Fire rated from both directions
Built from one side only - Plan

Fire Rated and Non-Fire Rated
Head and Base Details for Internal Staggered Stud Walls - Lined Full Height

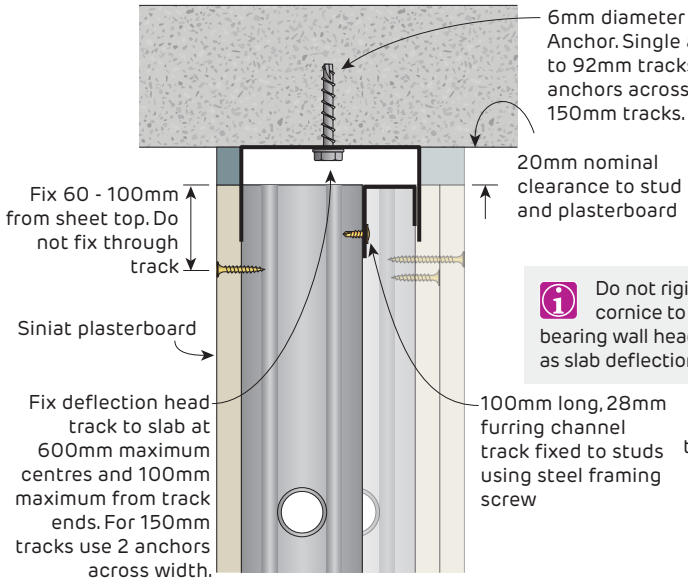


FIGURE 113 Wall Head - Staggered Stud Deflection Head Track Section

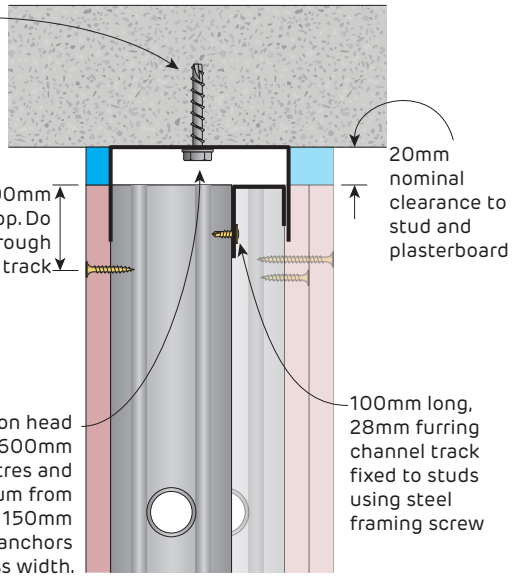


FIGURE 114 Wall Head - Staggered Stud Deflection Head Track Section

Do not rigidly fix cornice to non-load bearing wall head and soffit, as slab deflection is expected.

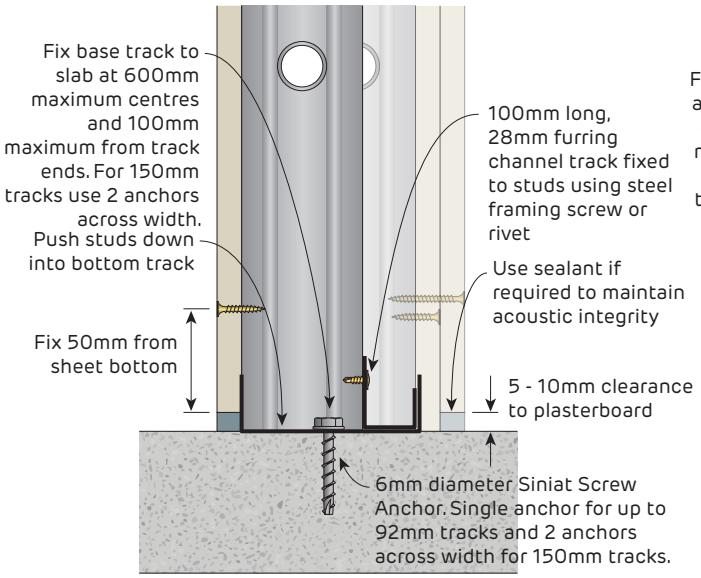


FIGURE 115 Wall Base - Staggered Stud Section

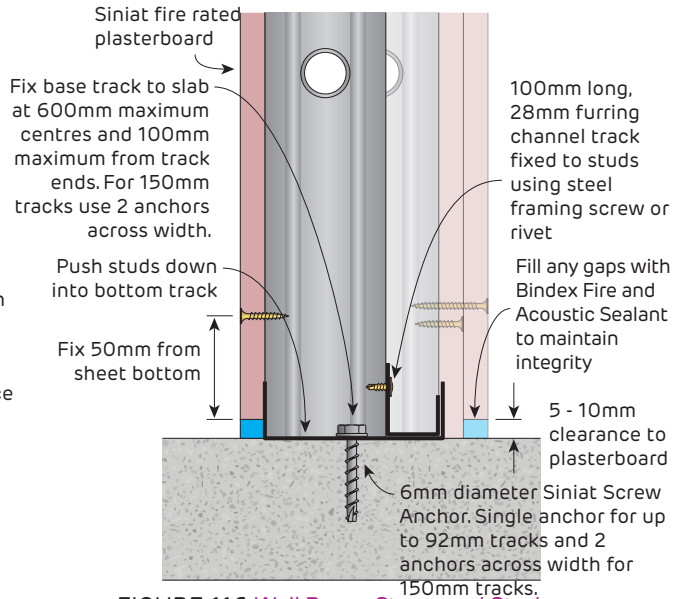


FIGURE 116 Wall Base - Staggered Stud Section

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

Fire Rated
Internal Staggered Stud Walls

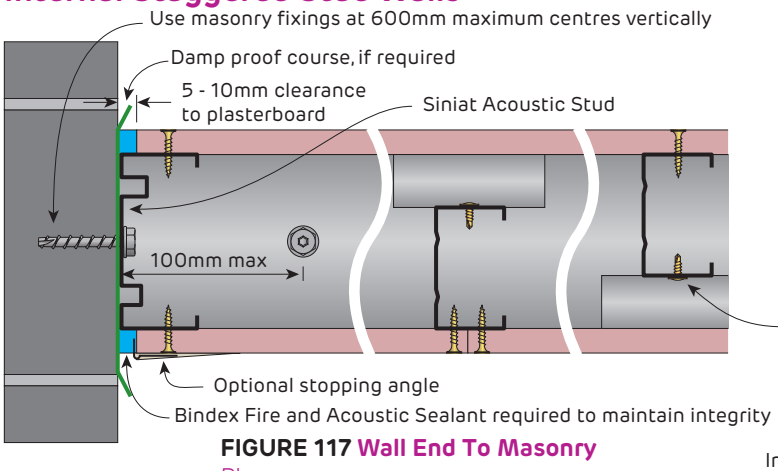


FIGURE 117 Wall End To Masonry
Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

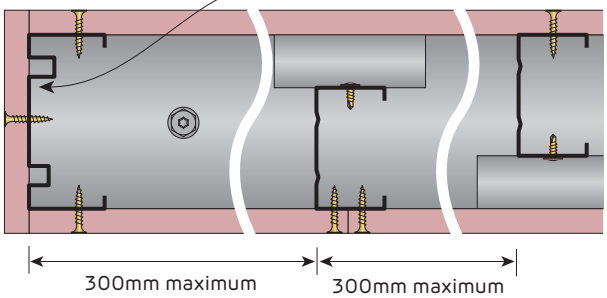


FIGURE 118 Wall End
Plan

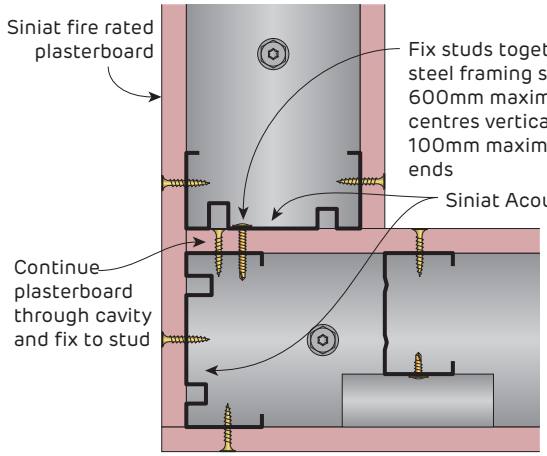


FIGURE 119 90° Corner
Plan

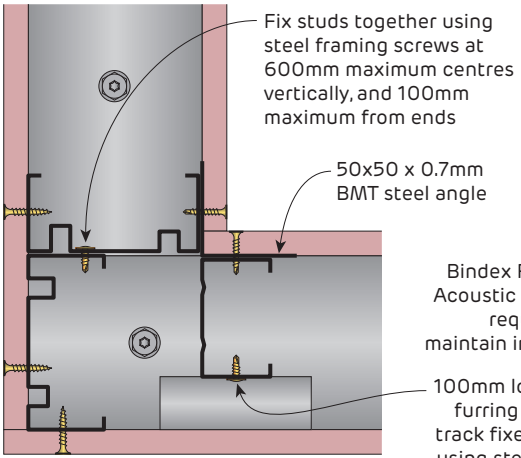
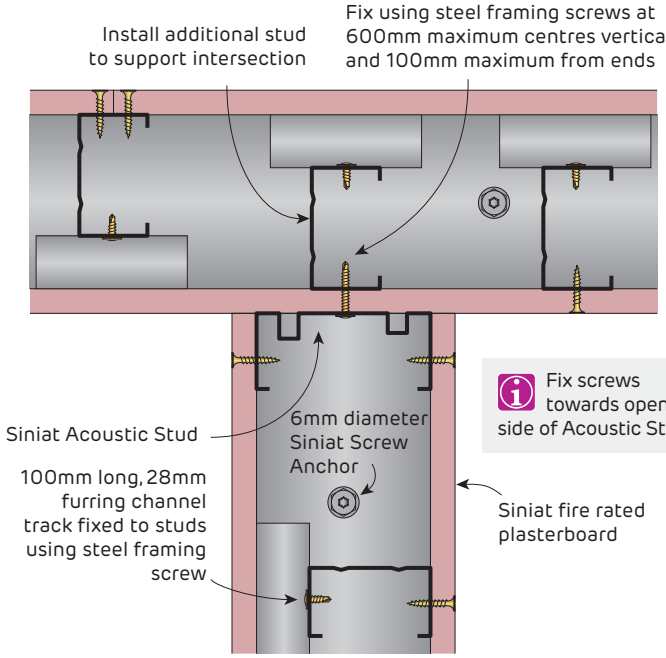


FIGURE 120 90° Corner
Plan



Fix screws towards open side of Acoustic Stud

FIGURE 118 Intersecting Wall
Plan

Details on this page refer to 64mm studs in a 92mm track only

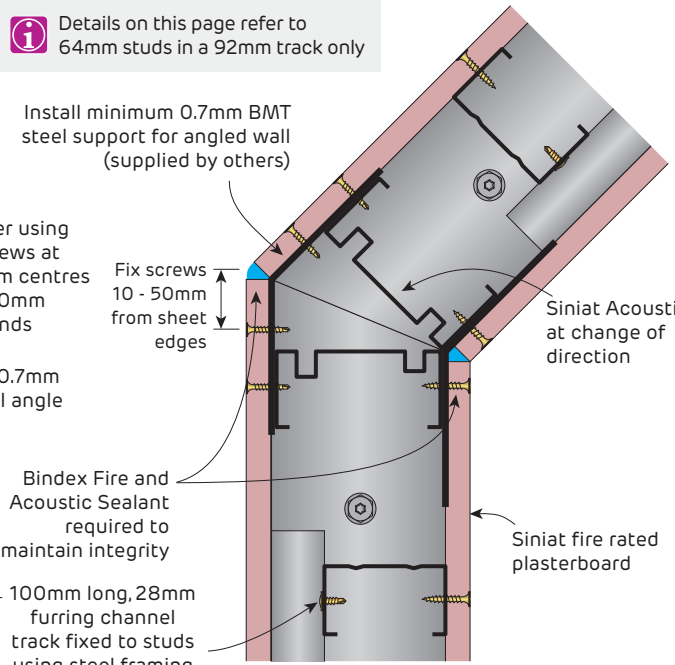


FIGURE 121 Obtuse Angle Corner
Plan

Fire Rated and Non-Fire Rated
Head and Base Details for Internal Acoustic Stud Walls - Lined Full Height

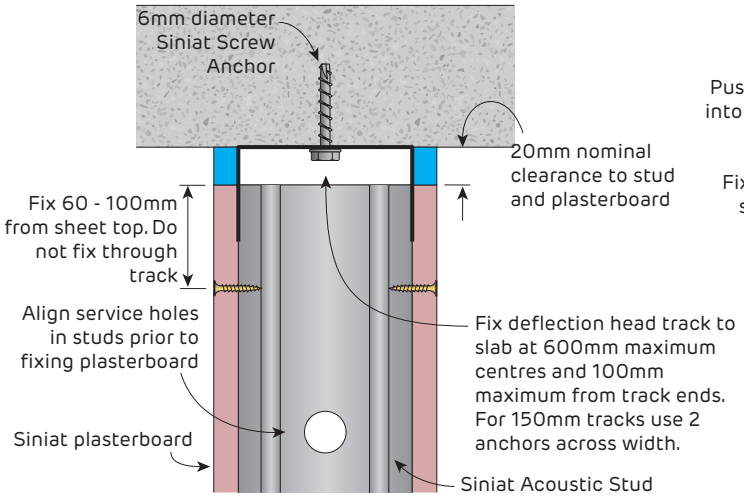


FIGURE 122 Wall Head
Acoustic Stud with Deflection Head Track
Section

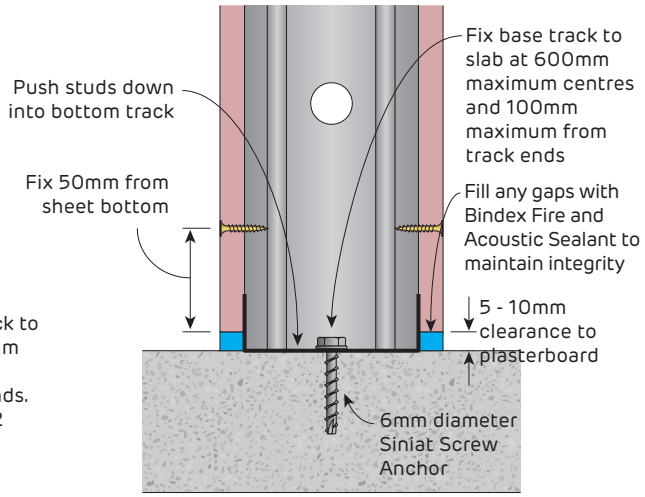


FIGURE 123 Wall Base
Acoustic Stud
Section

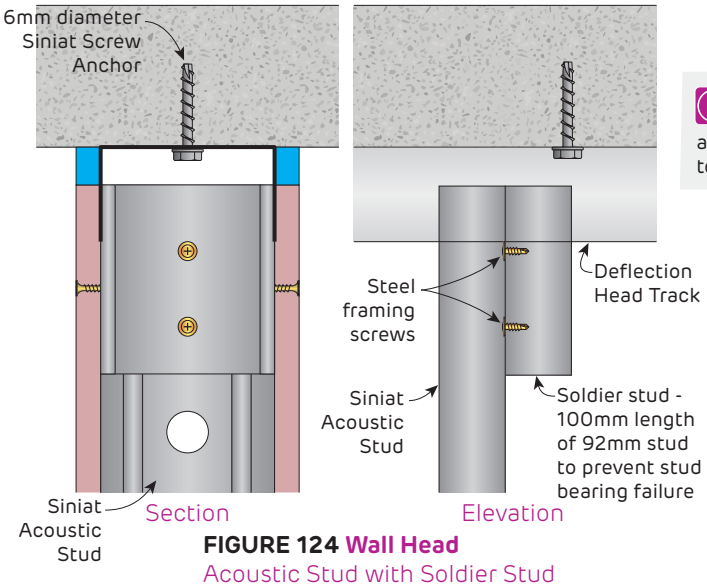


FIGURE 124 Wall Head
Acoustic Stud with Soldier Stud

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

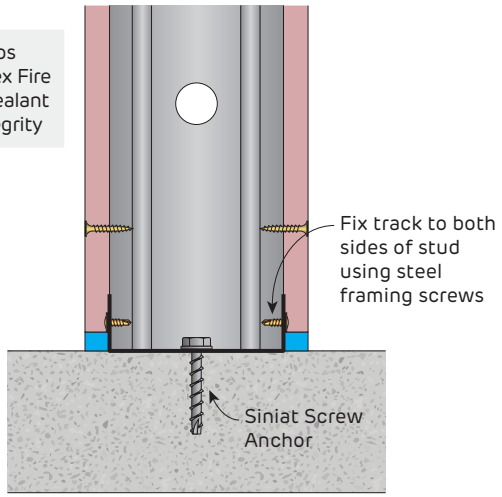


FIGURE 125 Wall Base
Acoustic Stud fixed to Base Track
Section

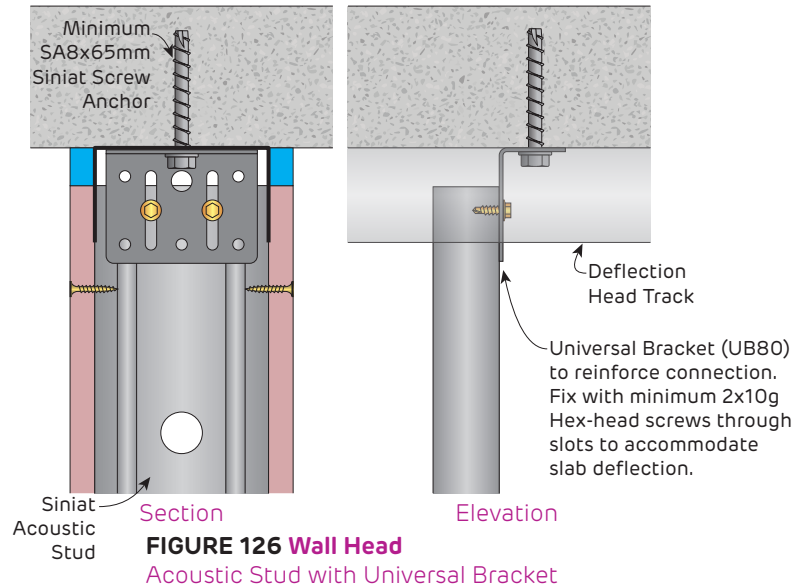


FIGURE 126 Wall Head
Acoustic Stud with Universal Bracket

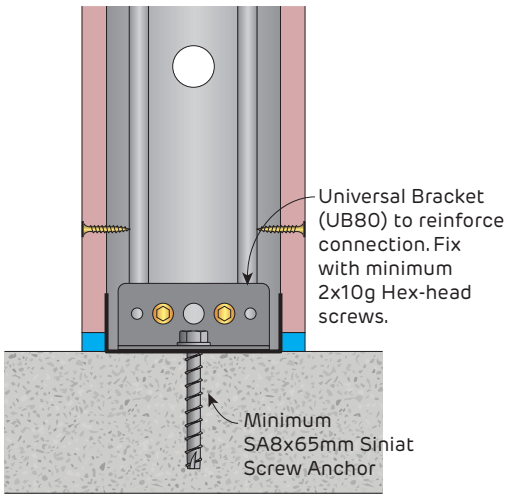


FIGURE 127 Wall Base
Acoustic Stud with Universal Bracket
Section

Fire Rated

Internal Acoustic Stud Walls - Lined Full Height

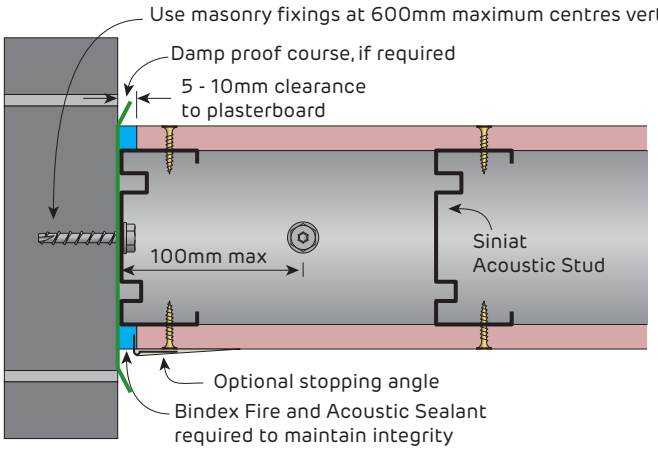


FIGURE 128 Wall End To Masonry
Plan

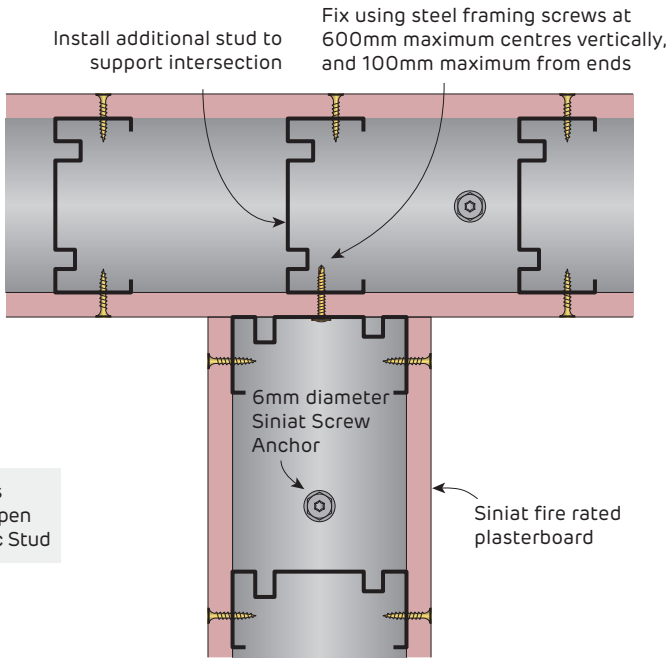


FIGURE 129 Intersecting Wall
Plan

Fix screws towards open side of Acoustic Stud

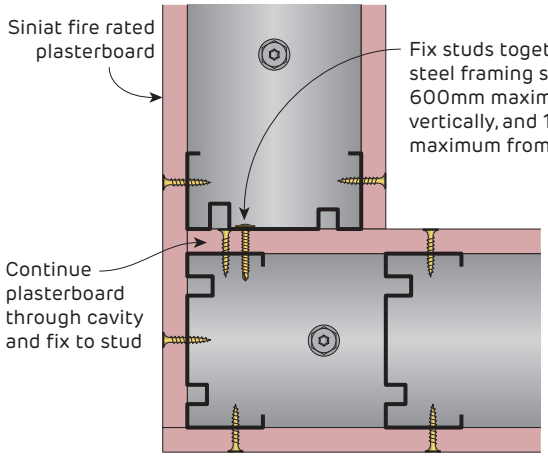


FIGURE 130 90° Corner
Plan

For internal and external corners, fill gaps with either Bindex Fire and Acoustic Sealant or Mastabase jointing compound. Fill any other gaps with Bindex Sealant to maintain integrity. All details apply from 1 to 4 layers.

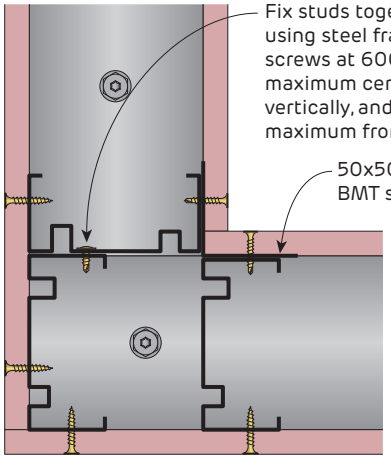


FIGURE 131 90° Corner
Plan

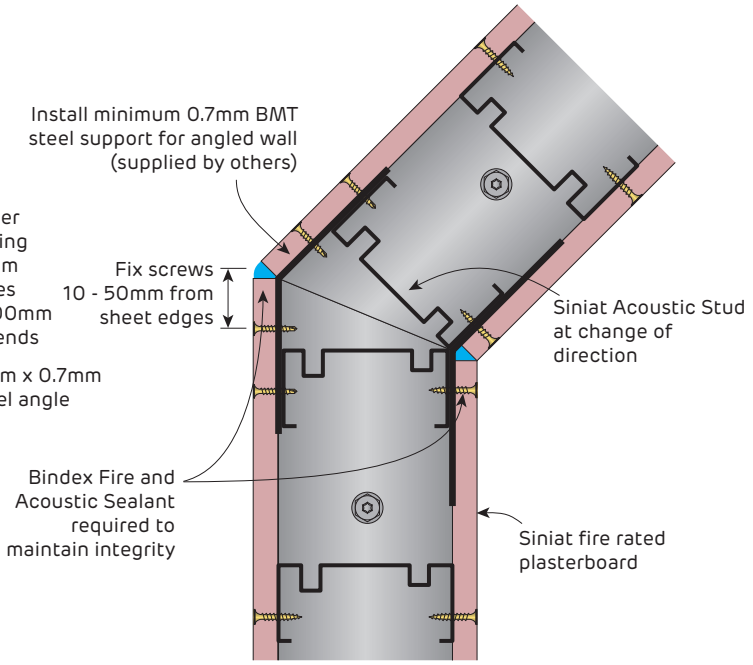


FIGURE 132 Obtuse Angle Corner
Plan

Fire Rated
Step in Concrete Slab Detail for Internal Stud Walls

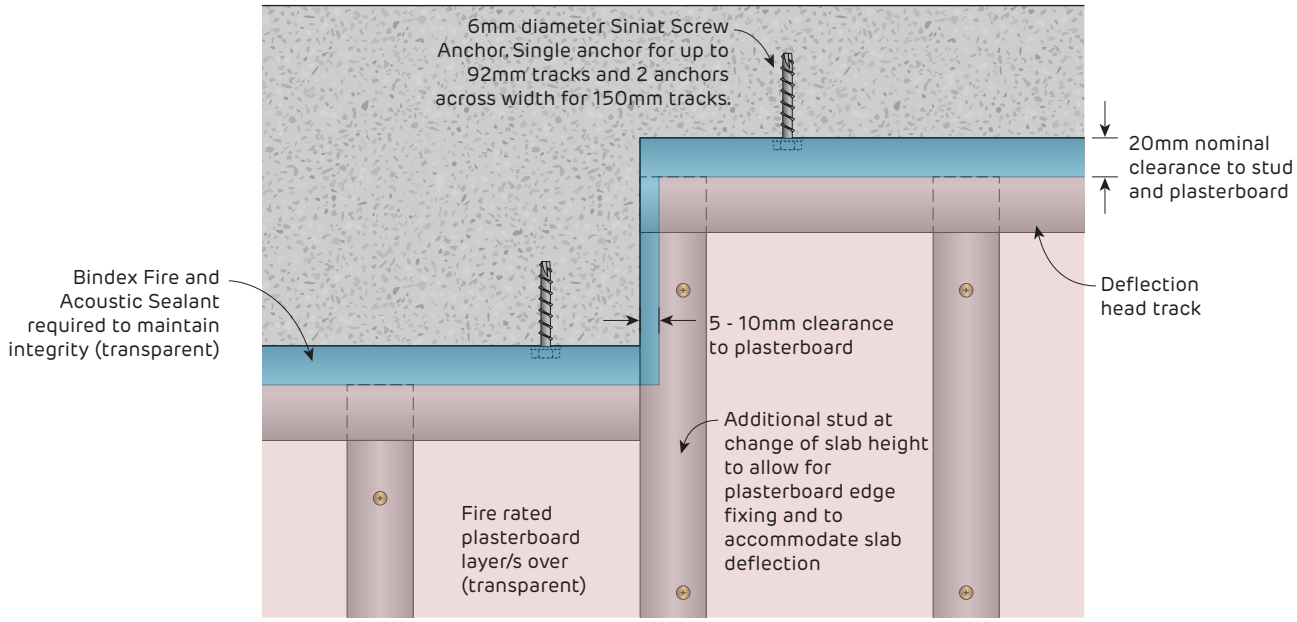


FIGURE 133 Step in Concrete Slab
Elevation

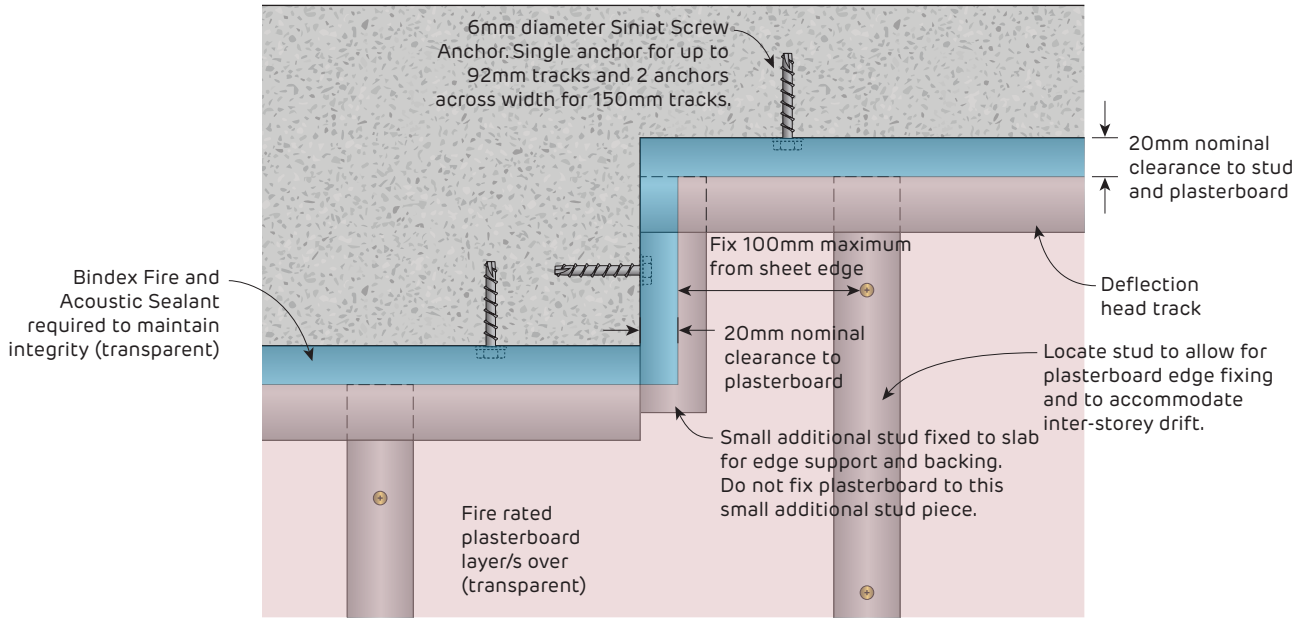


FIGURE 134 Step in Concrete Slab with 20mm allowance for Inter-Storey Drift
Elevation

Fire Rated
Sliding Connection Details for Internal Stud Walls

Do not rigidly fix cornice to non-load bearing wall head and soffit, as slab deflection is expected.

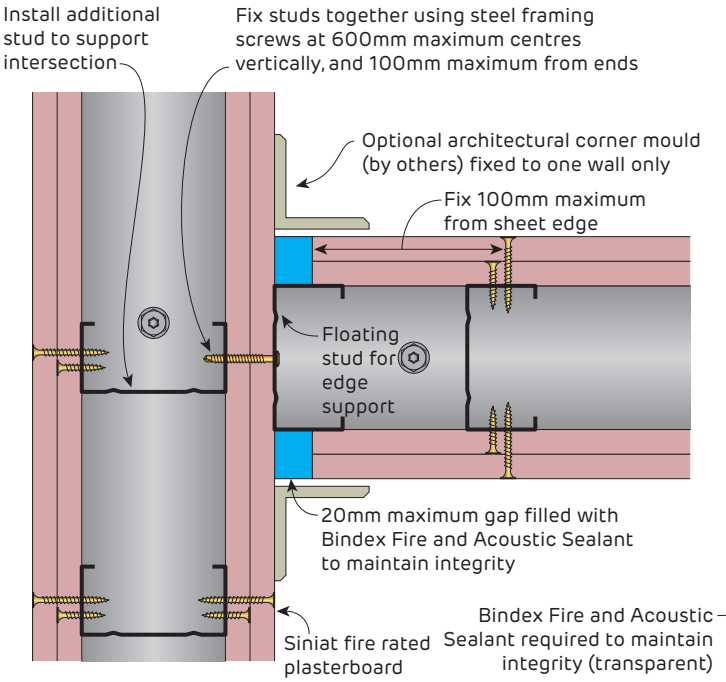
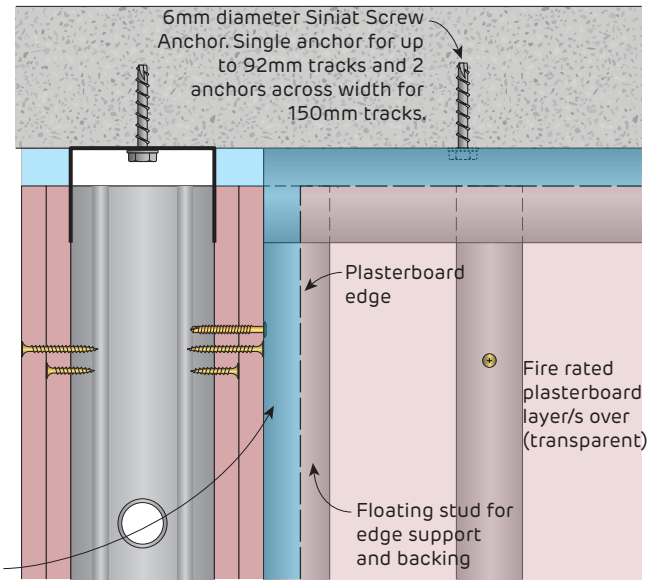


FIGURE 135 Sliding Wall End To Plasterboard
Plan



Note: Optional architectural corner mould not shown for clarity

FIGURE 136 Sliding Wall End To Plasterboard
Elevation to Figure 135

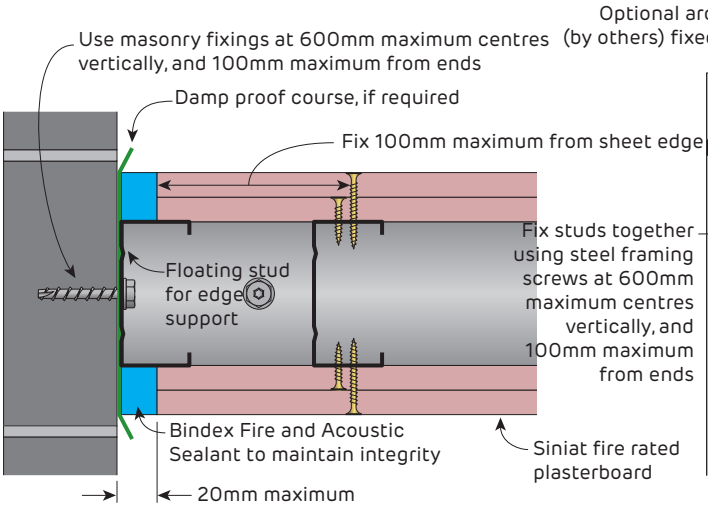


FIGURE 137 Sliding Wall End To Masonry
Plan

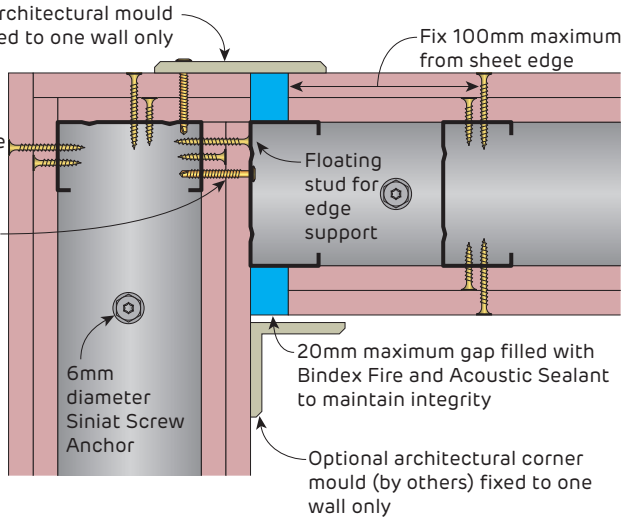


FIGURE 138 90° Sliding Corner
Plan

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

Fire Rated
Sliding Connection Details for Internal Stud Walls

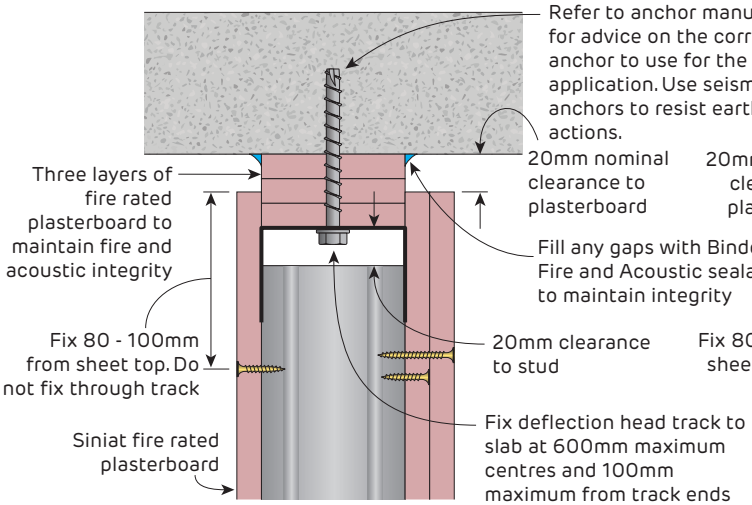


FIGURE 139 Sliding Head
Deflection Head Track
Section

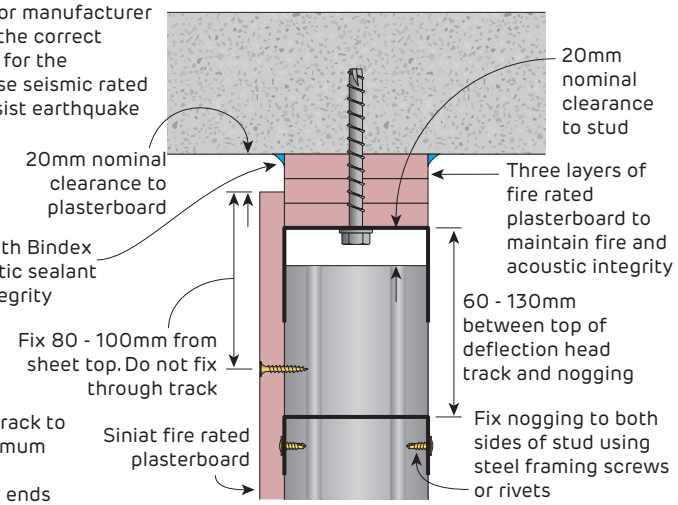


FIGURE 140 Sliding Head - Lined One Side Only
Deflection Head Track
Section

Do not rigidly fix cornice to non-load bearing wall head and soffit, as slab deflection is expected.

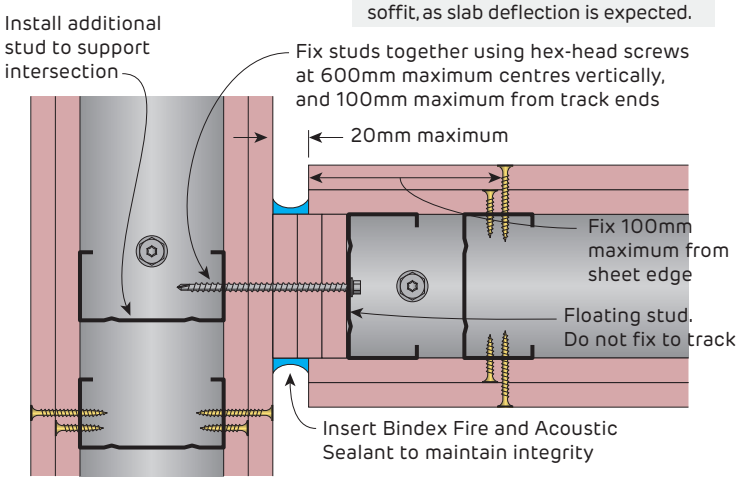


FIGURE 141 Sliding Wall End To Plasterboard
Plan

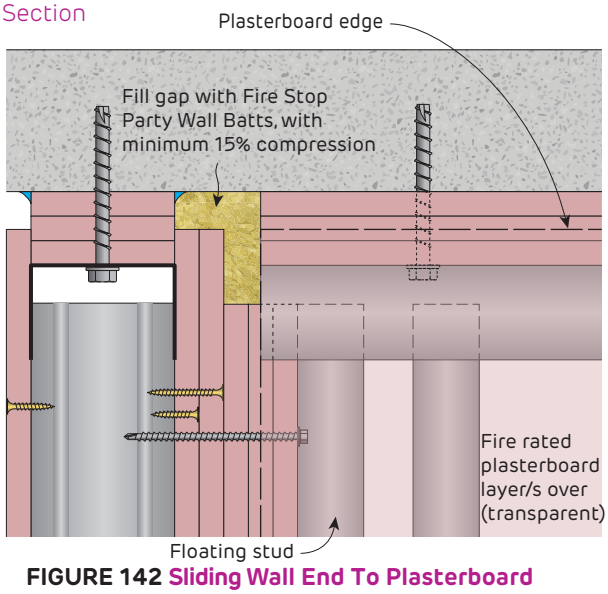


FIGURE 142 Sliding Wall End To Plasterboard
Elevation to Figure 141

Fill any gaps with Bindex Fire and Acoustic Sealant to maintain integrity

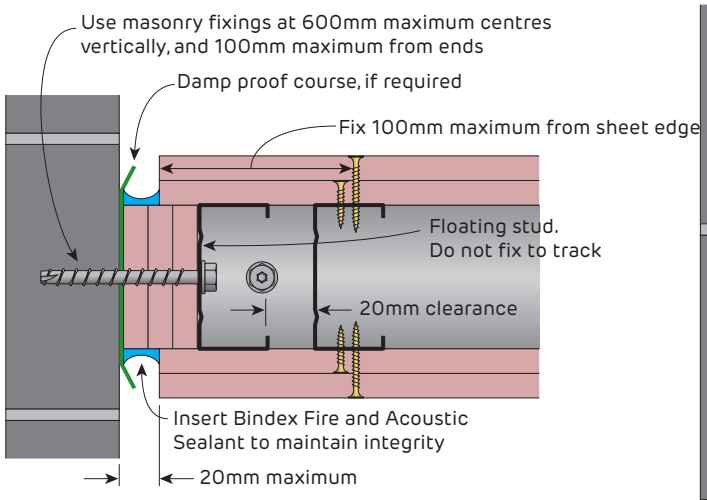


FIGURE 143 Sliding Wall End To Masonry
Plan

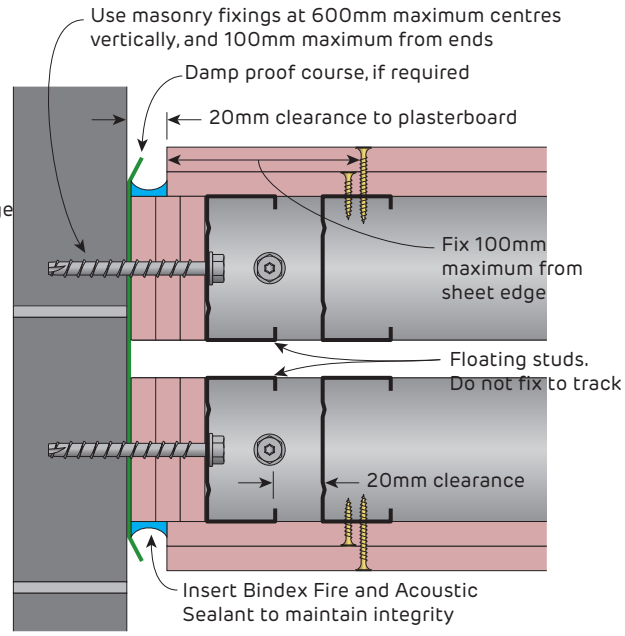


FIGURE 144 Sliding Wall End To Masonry
Plan

Fire Rated
Internal Stud Walls with Integrated Structural Beams to Extend Wall Heights

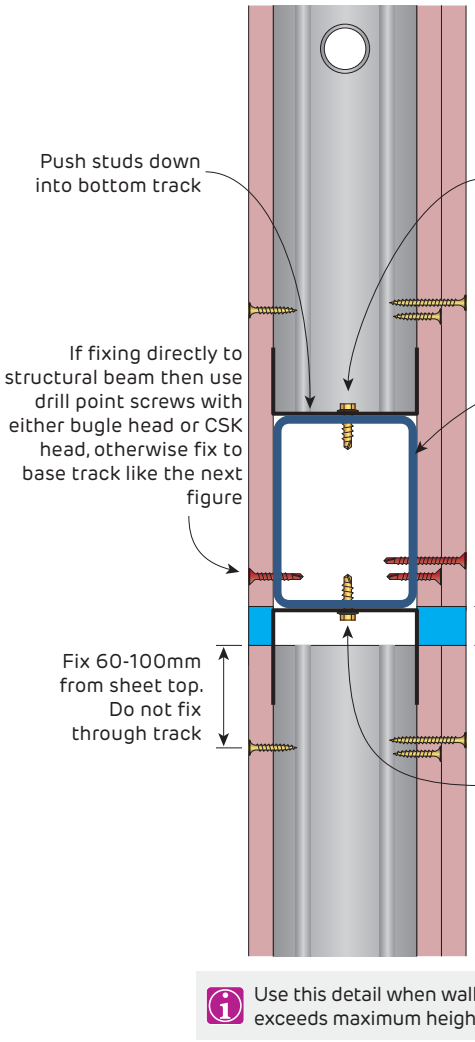


FIGURE 145 Wall Head to Supporting Beam
With load bearing structural members
Section

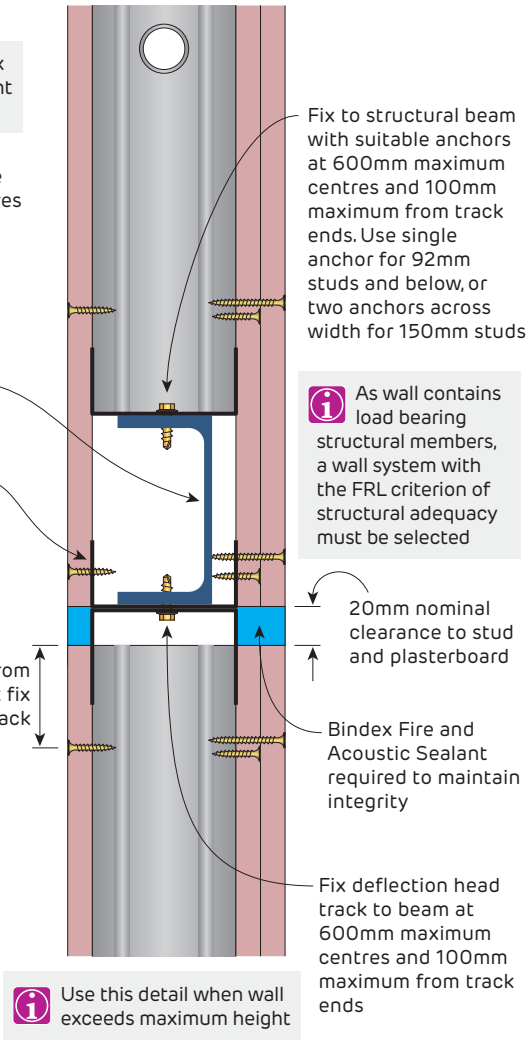


FIGURE 146 Wall Head to Supporting Beam
With load bearing structural members
Section

Table 16 Suggested Sizing of Structural Members in Steel Stud Plasterboard Walls

Stud Size (mm)	Structural Members		
	RHS	SHS	PFC
51	75x50 RHS 100x50 RHS 127x51 RHS 150x50 RHS	50x50 SHS	75PFC5.92 100PFC8.33
64	75x50 RHS 100x50 RHS 127x51 RHS 150x50 RHS	50x50 SHS	100PFC8.33
76	125x75 RHS 102x76 RHS 152x76 RHS	65x65 SHS 75x75 SHS	150PFC17.7 180PFC20.9 200PFC22.9 230PFC25.1
92	125x75 RHS 102x76 RHS 152x76 RHS	75x75 SHS 89x89 SHS 90x90 SHS	-
150	250x150 RHS	150x150 SHS	-

Fire Rated
Internal Wall Built Around Columns

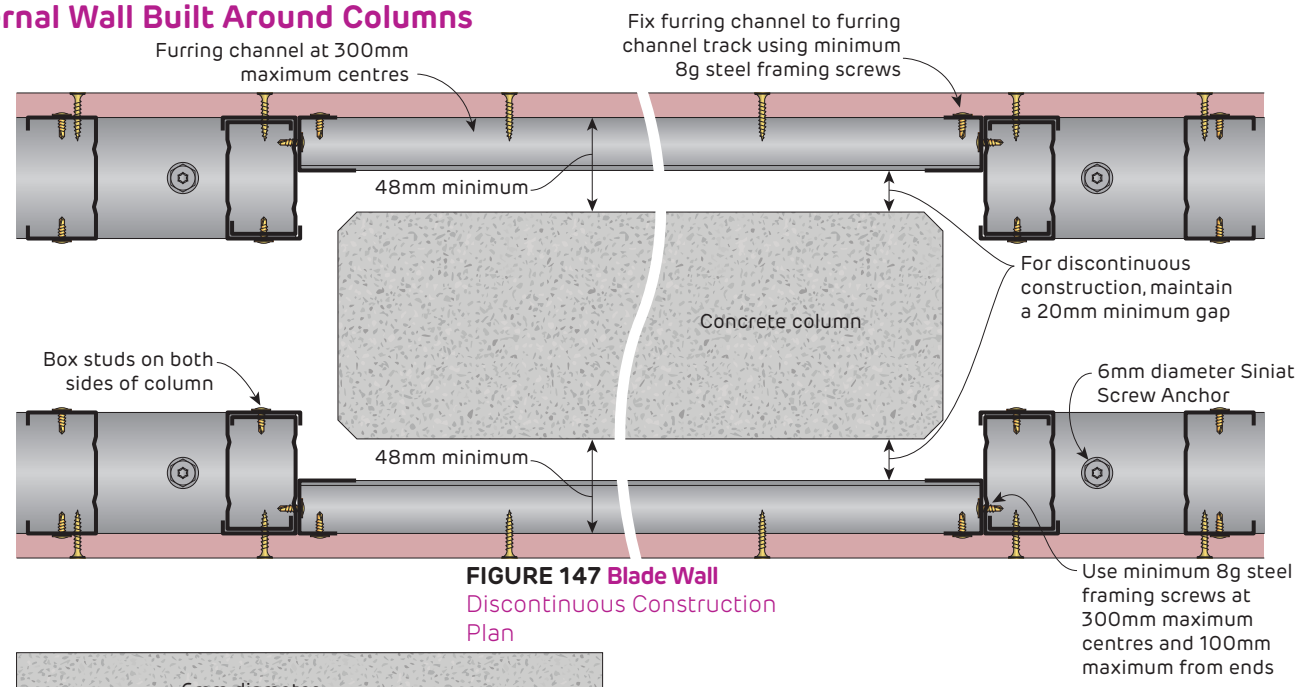


FIGURE 147 Blade Wall
Discontinuous Construction
Plan

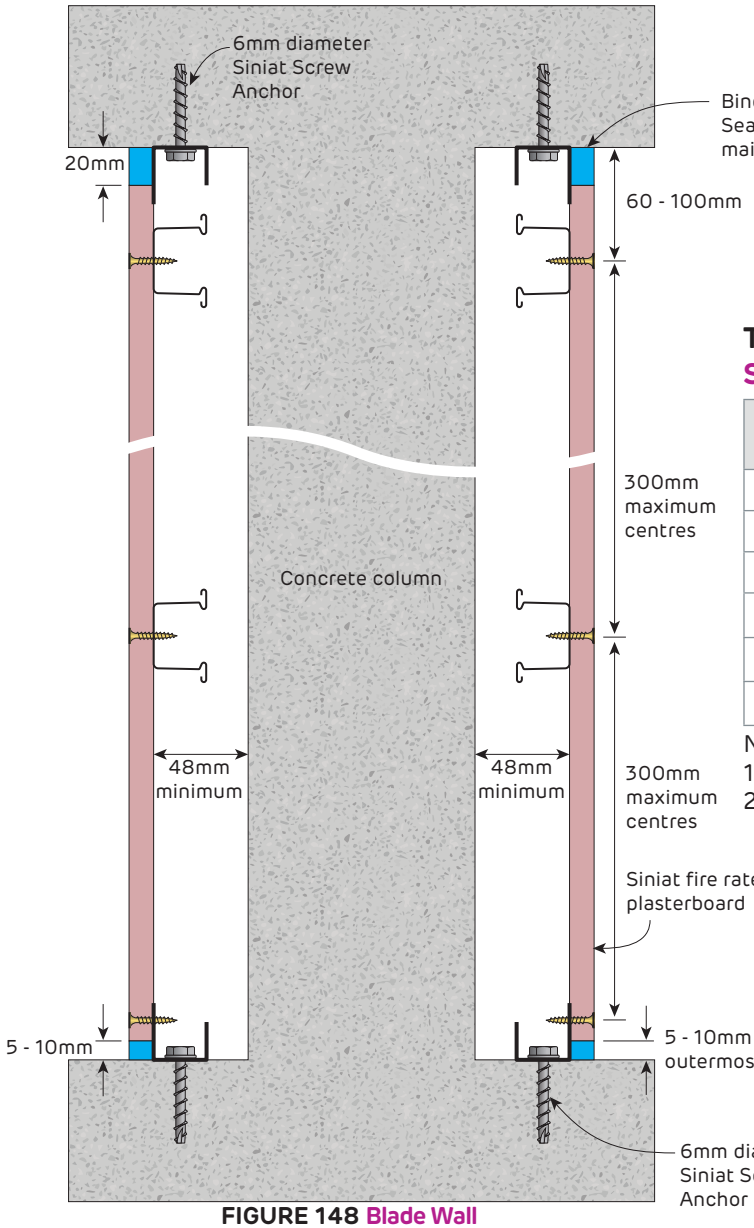


FIGURE 148 Blade Wall
Discontinuous Construction
Section

Insulation not shown for clarity. Refer to System PMW101 in Section 3.5 for lining and insulation required.

Table 17 Horizontal Furring Channel Span Table over Column

W_{ult} (kPa)	W_{ser} (kPa)	28mm Furring Channel (mm)
0.39	0.25	1350
0.47	0.3	1280
0.54	0.35	1240
0.59	0.25	1210
0.71	0.3	1150
0.83	0.35	1100

Notes
1. Furring channels at 300mm maximum centres
2. Lateral deflection limited to span/240

Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

Fire Rated
Internal Wall Built Around Columns

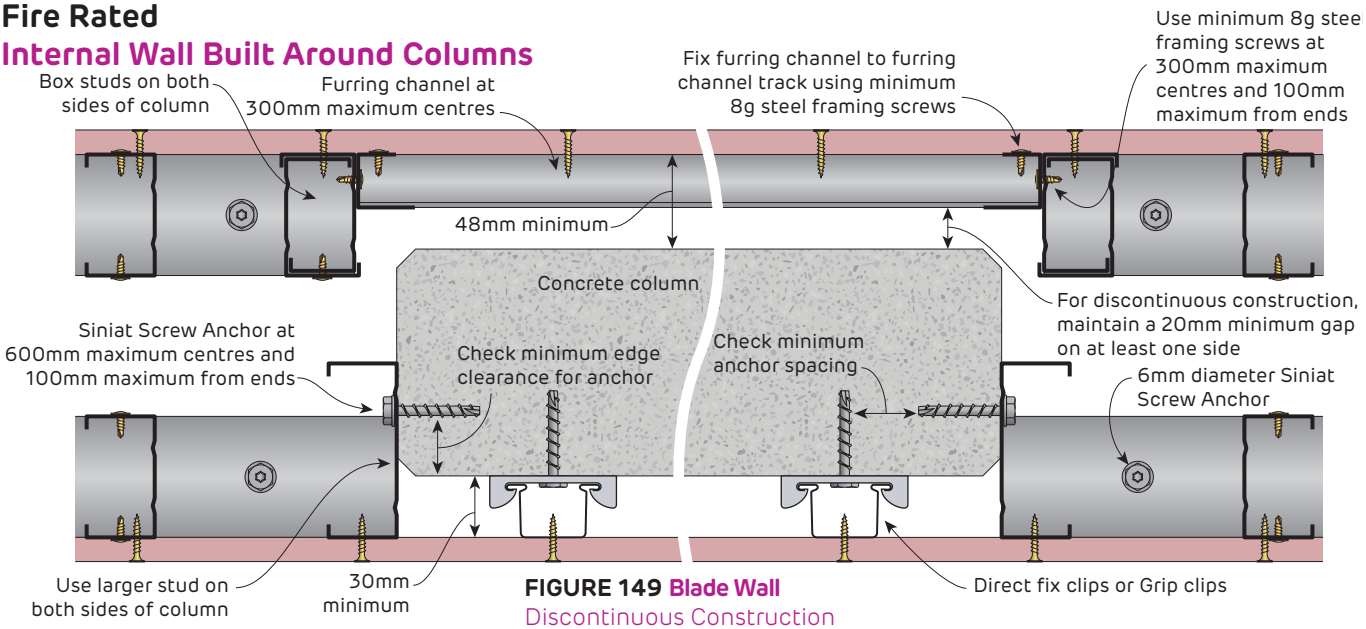


FIGURE 149 Blade Wall
Discontinuous Construction Plan

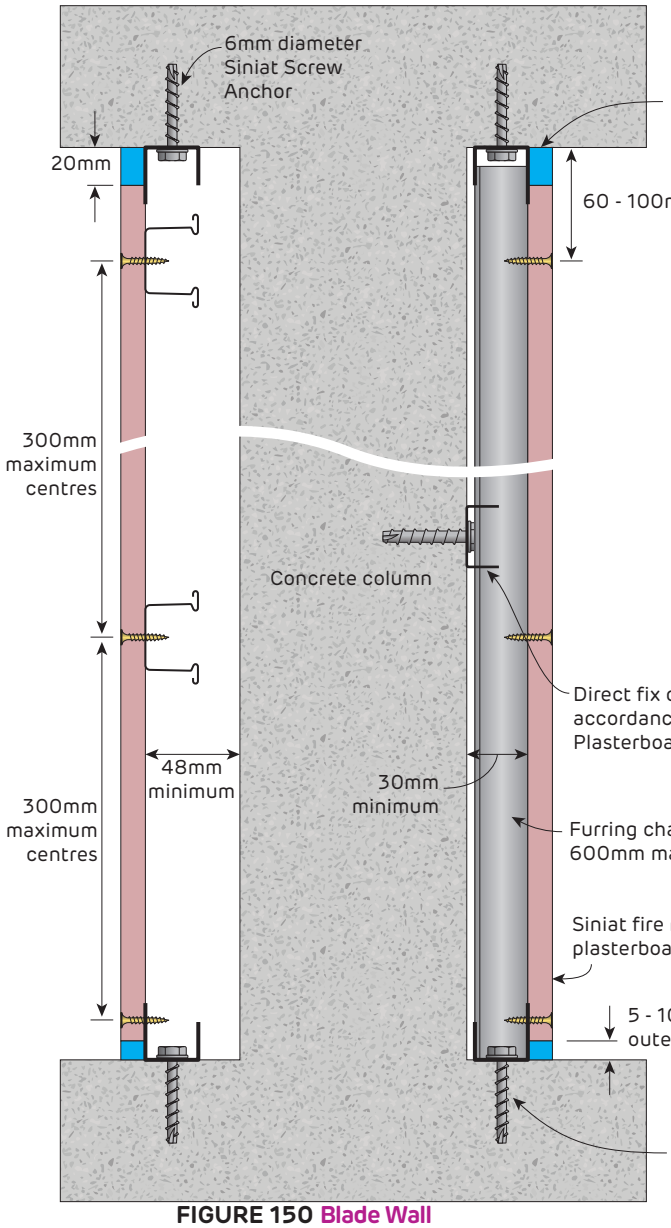


FIGURE 150 Blade Wall
Discontinuous Construction Section

Insulation not shown for clarity. Refer to System PMW102 in Section 3.5 for lining and insulation required.

Table 18 Horizontal Furring Channel Span Table over Column

W_{ult} (kPa)	W_{ser} (kPa)	28mm Furring Channel (mm)
0.39	0.25	1350
0.47	0.3	1280
0.54	0.35	1240
0.59	0.25	1210
0.71	0.3	1150
0.83	0.35	1100

Notes
1. Furring channels at 300mm maximum centres
2. Lateral deflection limited to span/240

If a discontinuous wall (Separating Wall) is required, then Direct fix clips or Grip clips may only be used on one side of the concrete column, and the other side must be separated with a minimum 20mm gap.

Outermost plasterboard sheets with no gap at the base are at risk of moisture wicking

Fire Rated
Internal Wall Built Around Columns

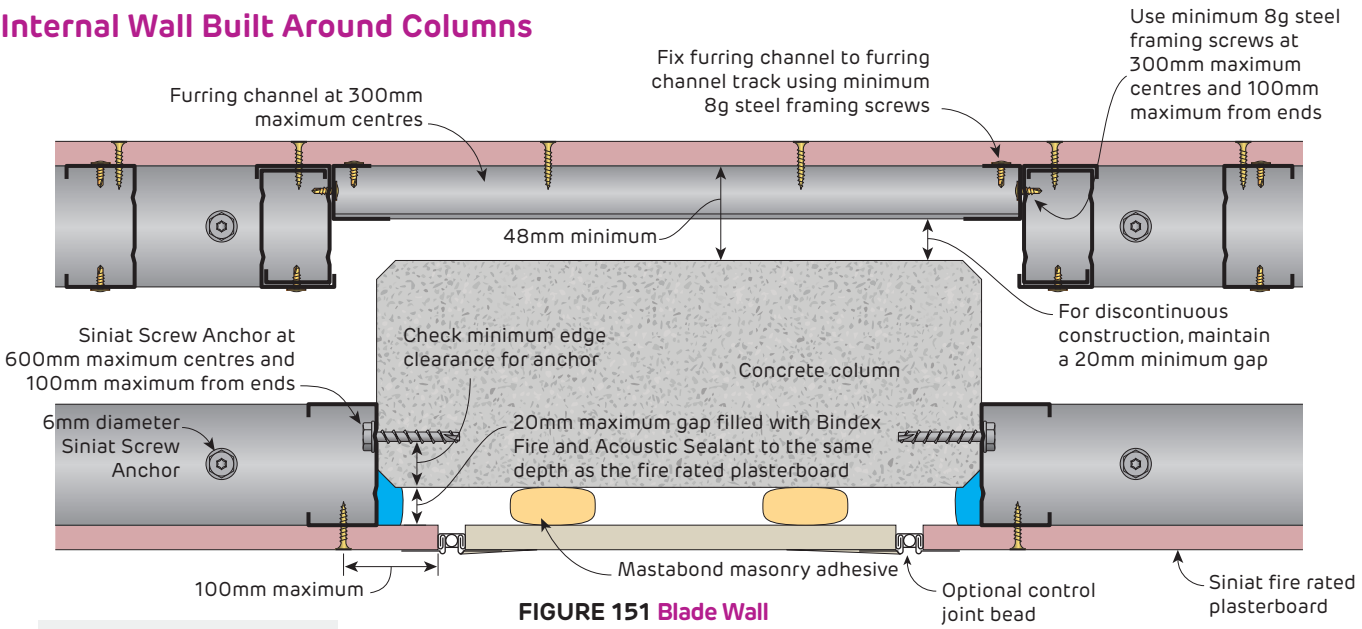


FIGURE 151 Blade Wall Discontinuous Construction Plan

Insulation not shown for clarity. Refer to System PMW103 in Section 3.5 for lining and insulation required.

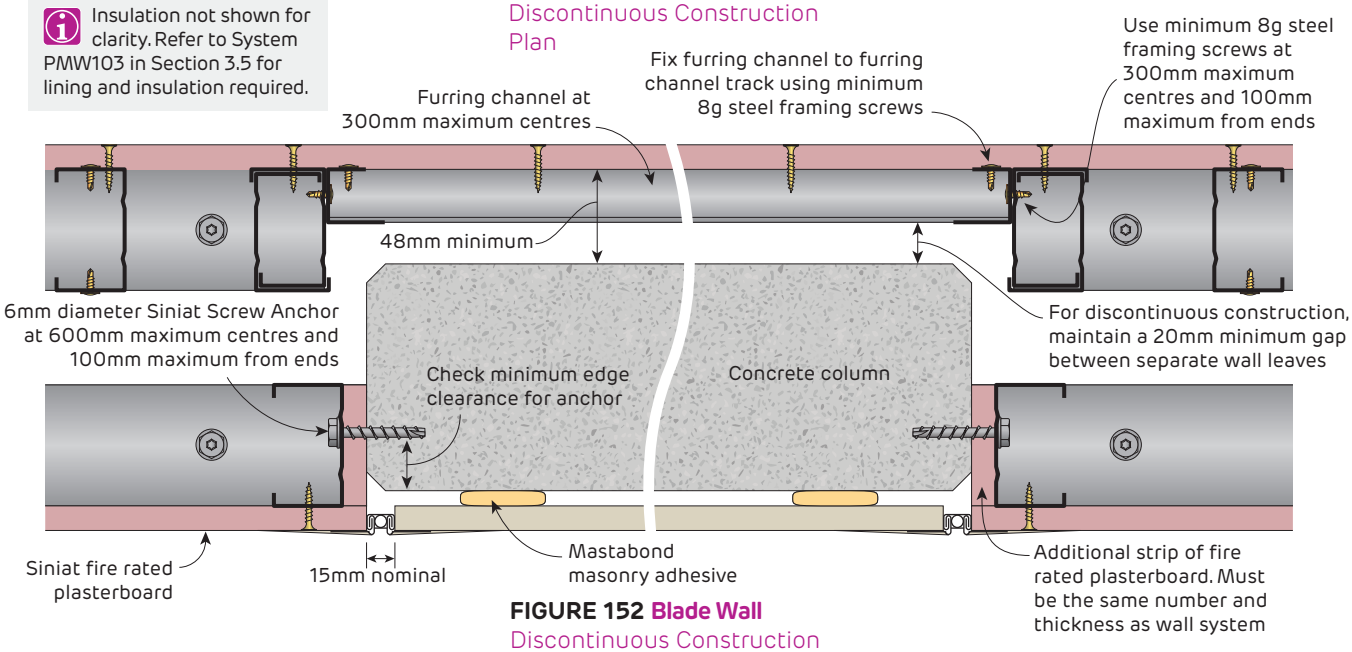


FIGURE 152 Blade Wall Discontinuous Construction Plan

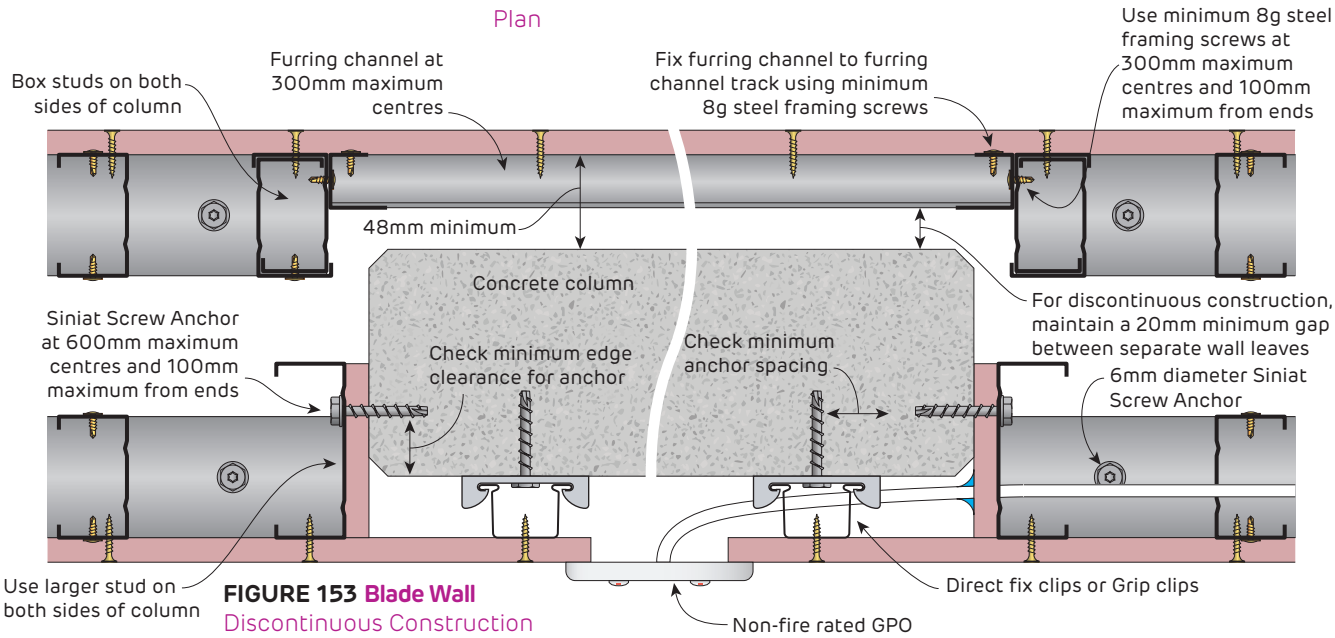


FIGURE 153 Blade Wall Discontinuous Construction Plan

Fire Rated
Internal Wall Built Around Columns

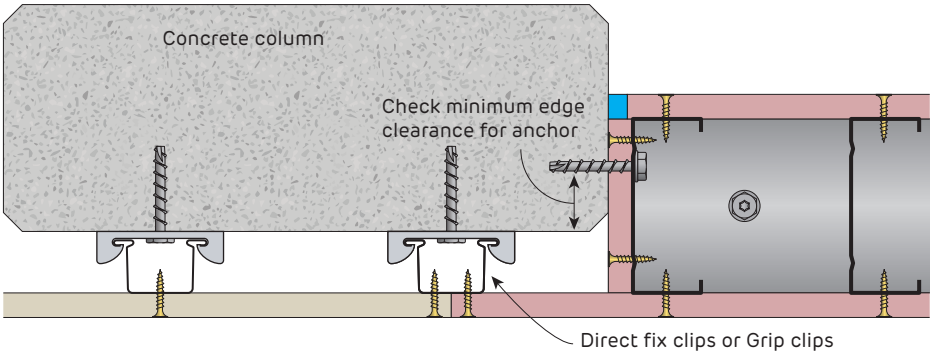


FIGURE 154 Fire rated Partition Wall to Concrete Column
Plan

Fire Rated and Non-Fire Rated
Control Joints in Stud Walls

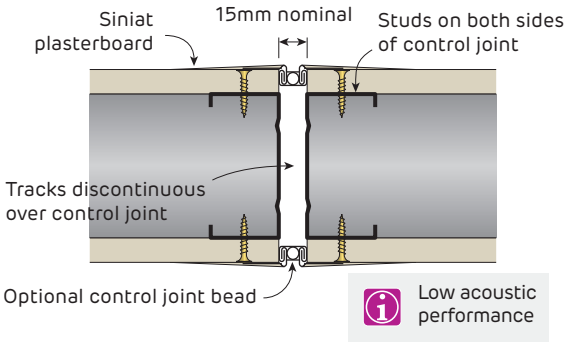


FIGURE 155 Control Joint
Plan

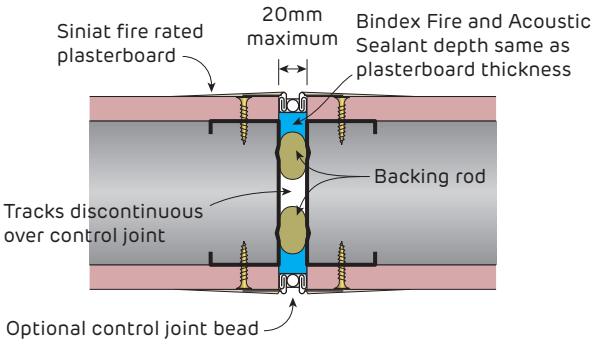


FIGURE 156 Control Joint
Fire rated - 1 layer with control joint bead
Plan

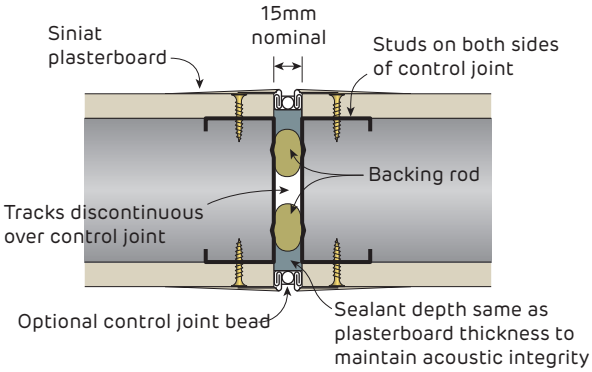


FIGURE 157 Control Joint
Plan

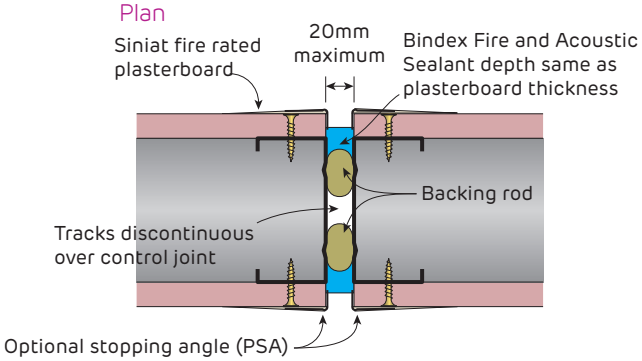


FIGURE 158 Control Joint
Fire rated - 1 layer with stopping angle
Plan

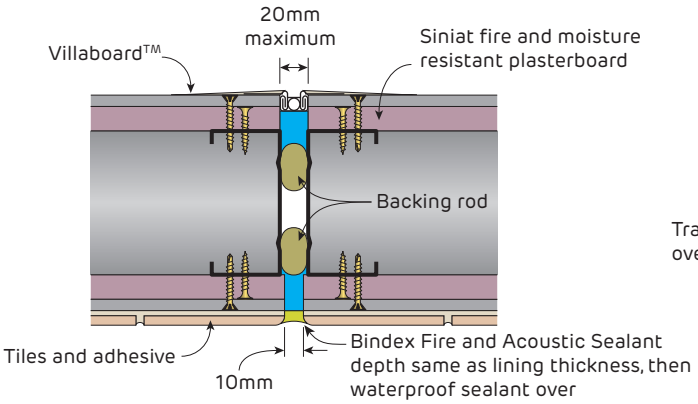


FIGURE 159 Control Joint
Fire rated for wet area
Plan

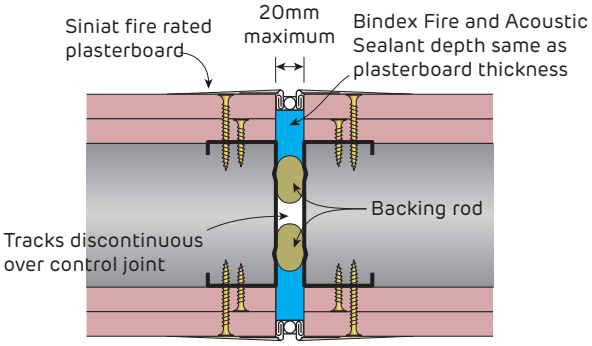


FIGURE 160 Control Joint
Fire rated - 2 layers
Plan

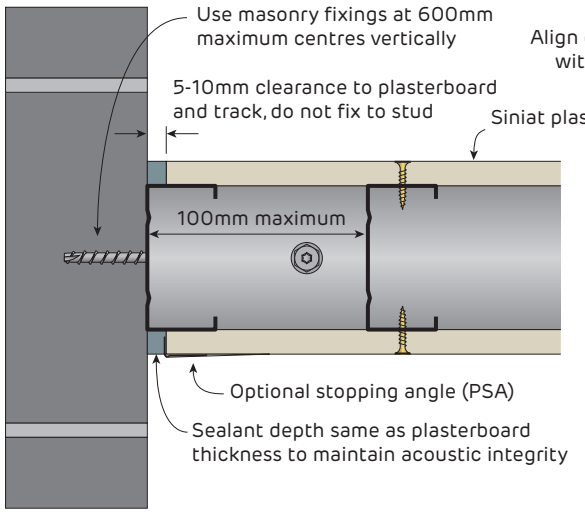


FIGURE 161 Sliding Wall End to Intersecting Wall
Plan

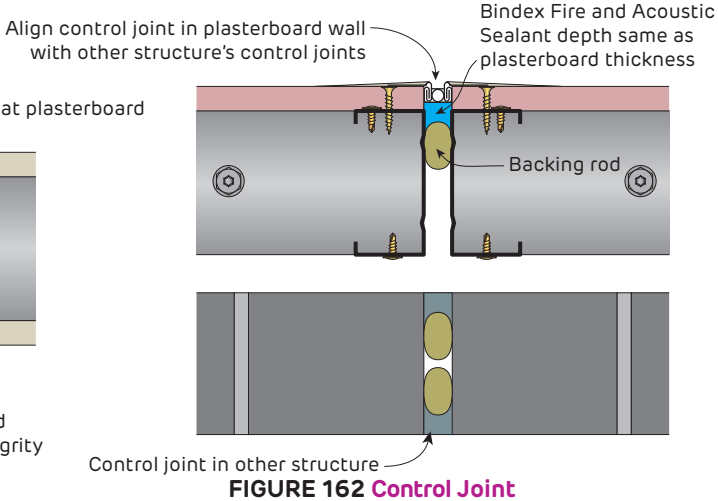


FIGURE 162 Control Joint
Fire rated
Plan

Fire Rated
Fire Penetration Details for Internal Stud Walls

Refer to proprietary fire product manufacturer for performance and installation instructions.

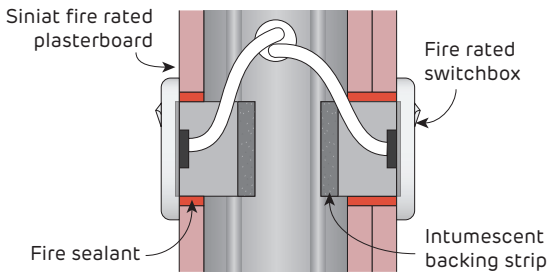
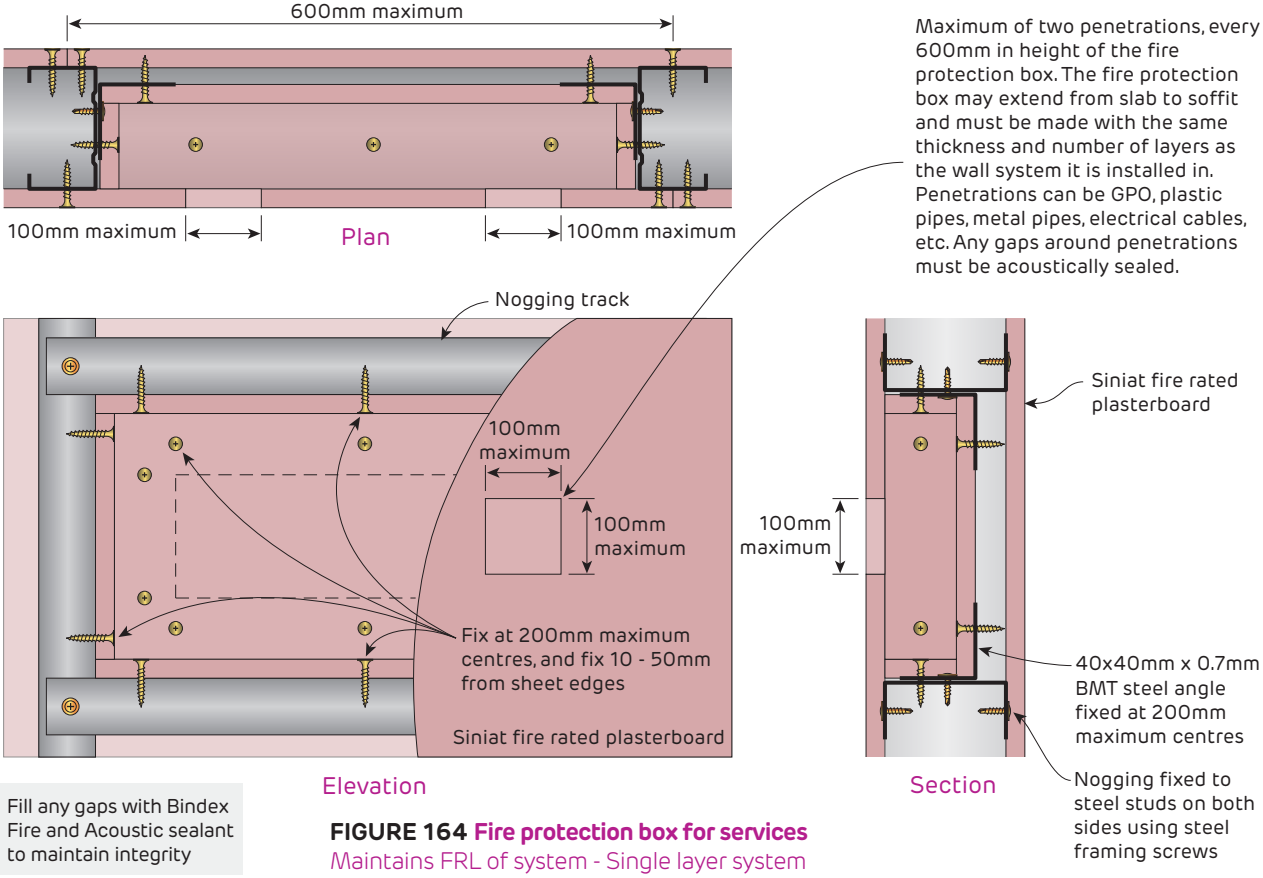


FIGURE 163 Fire Rated Power-point GPO
Example only
Section

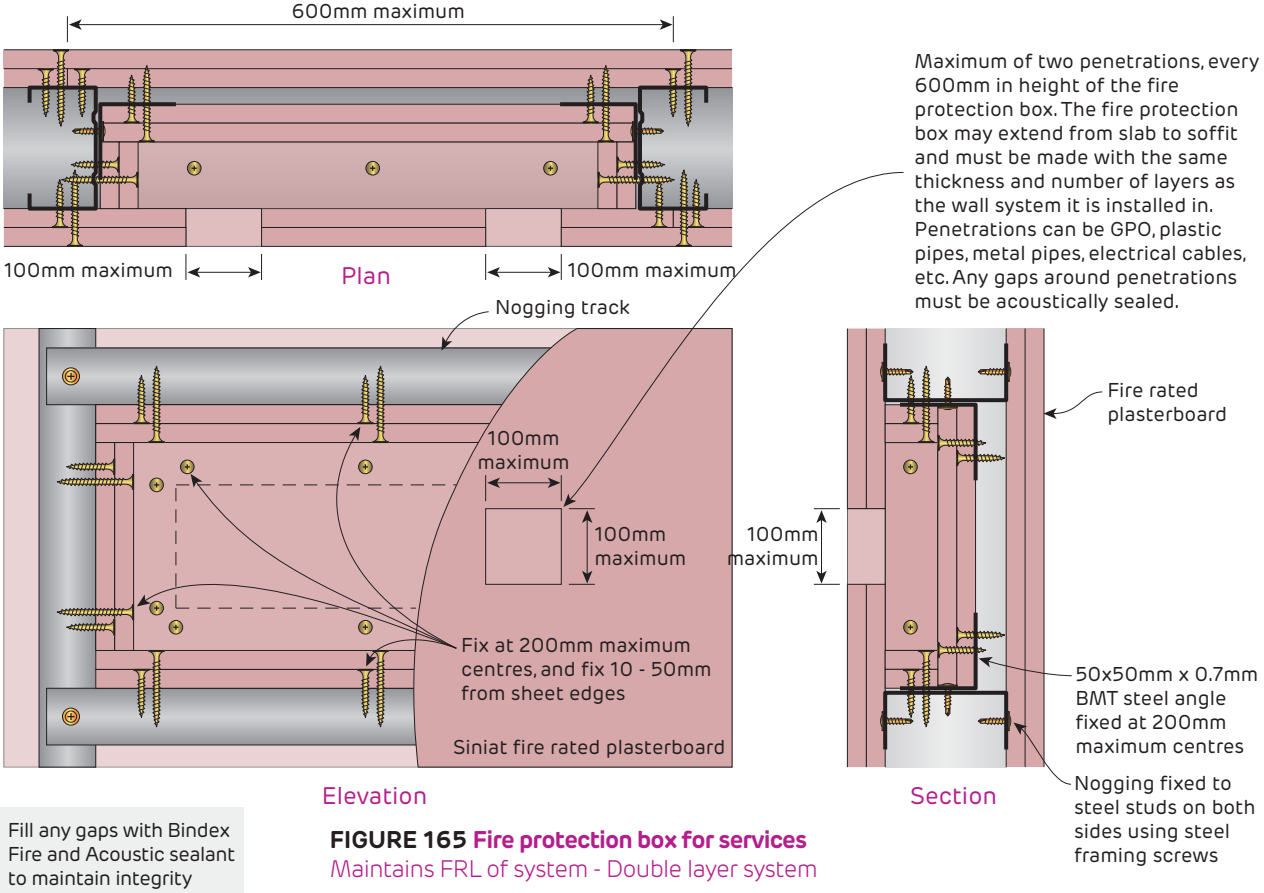


Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

FIGURE 164 Fire protection box for services
Maintains FRL of system - Single layer system

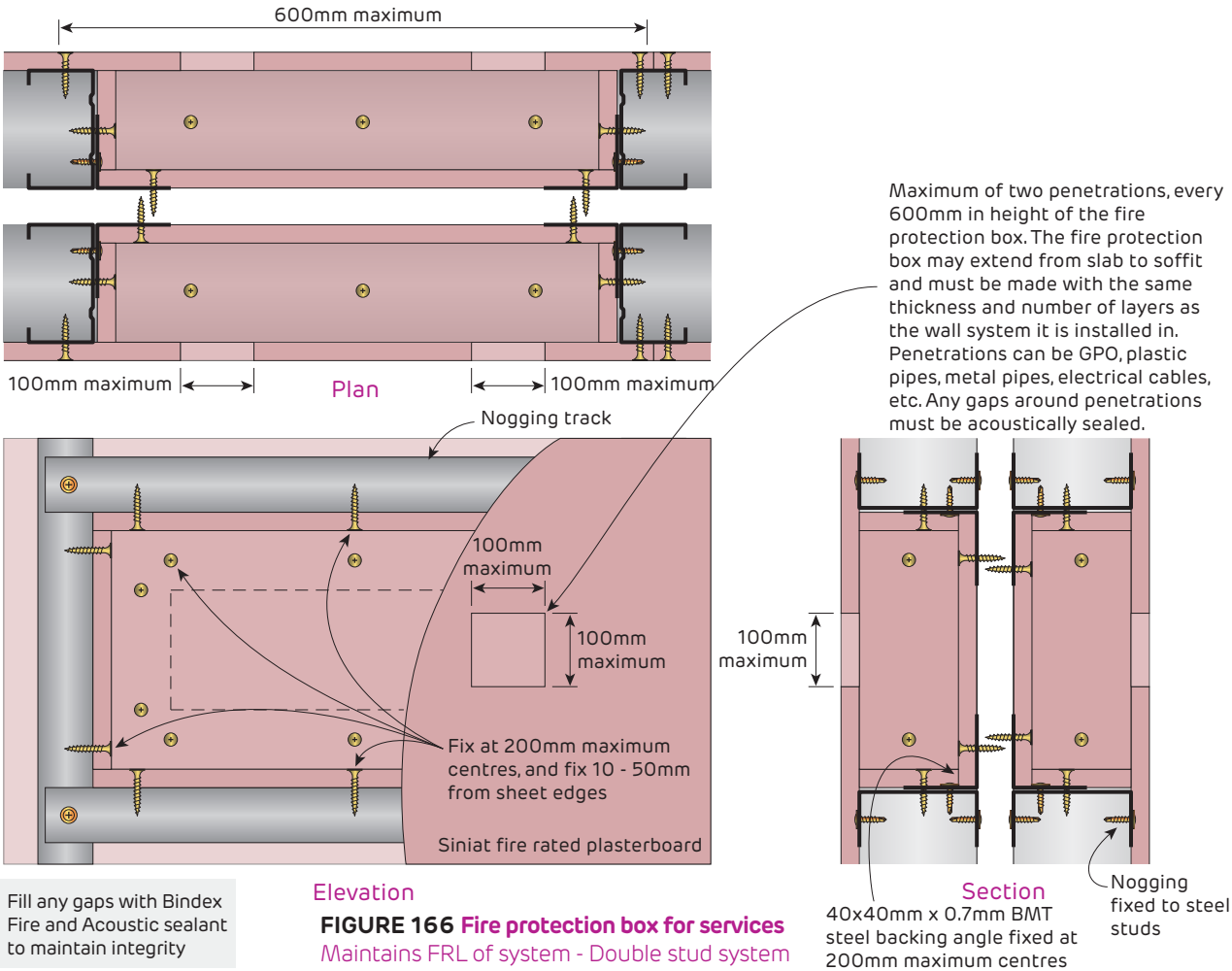
Fire Rated

Fire Penetration Details for Internal Stud Walls



Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

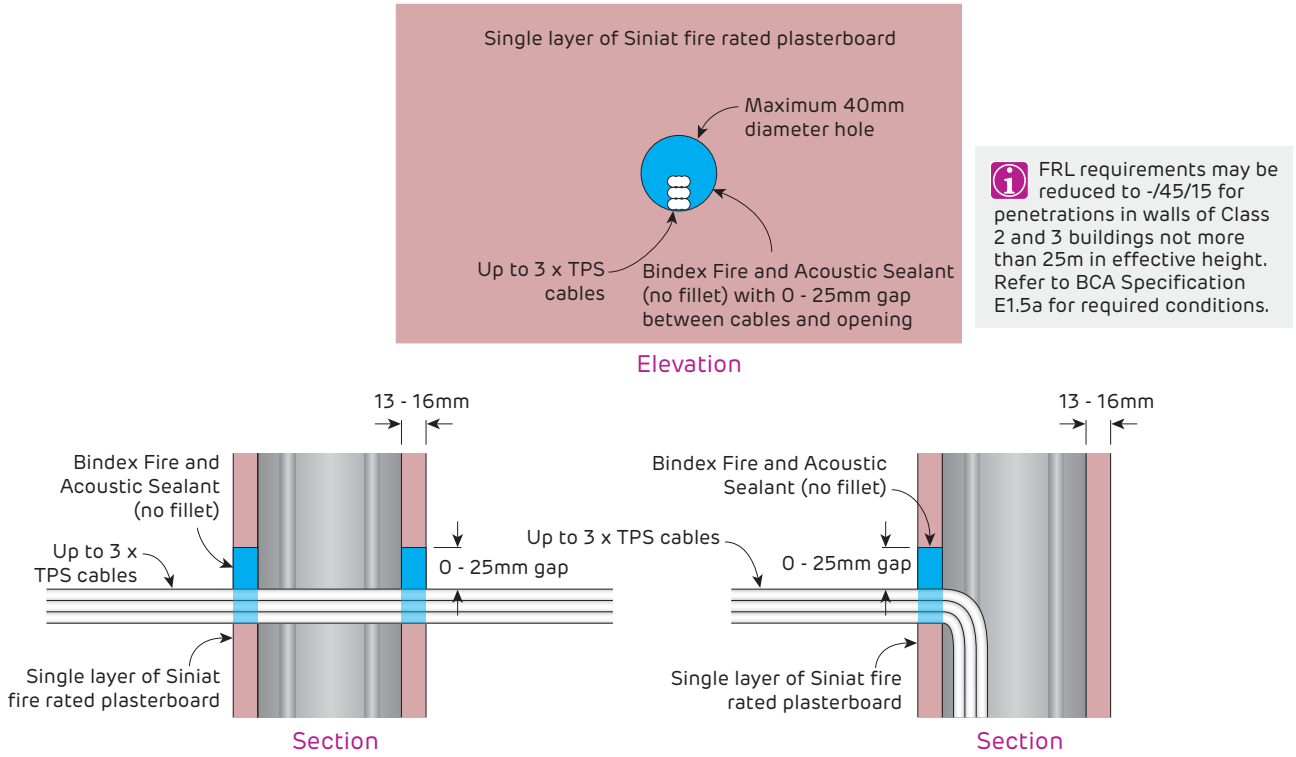
FIGURE 165 Fire protection box for services
Maintains FRL of system - Double layer system



Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

FIGURE 166 Fire protection box for services
Maintains FRL of system - Double stud system

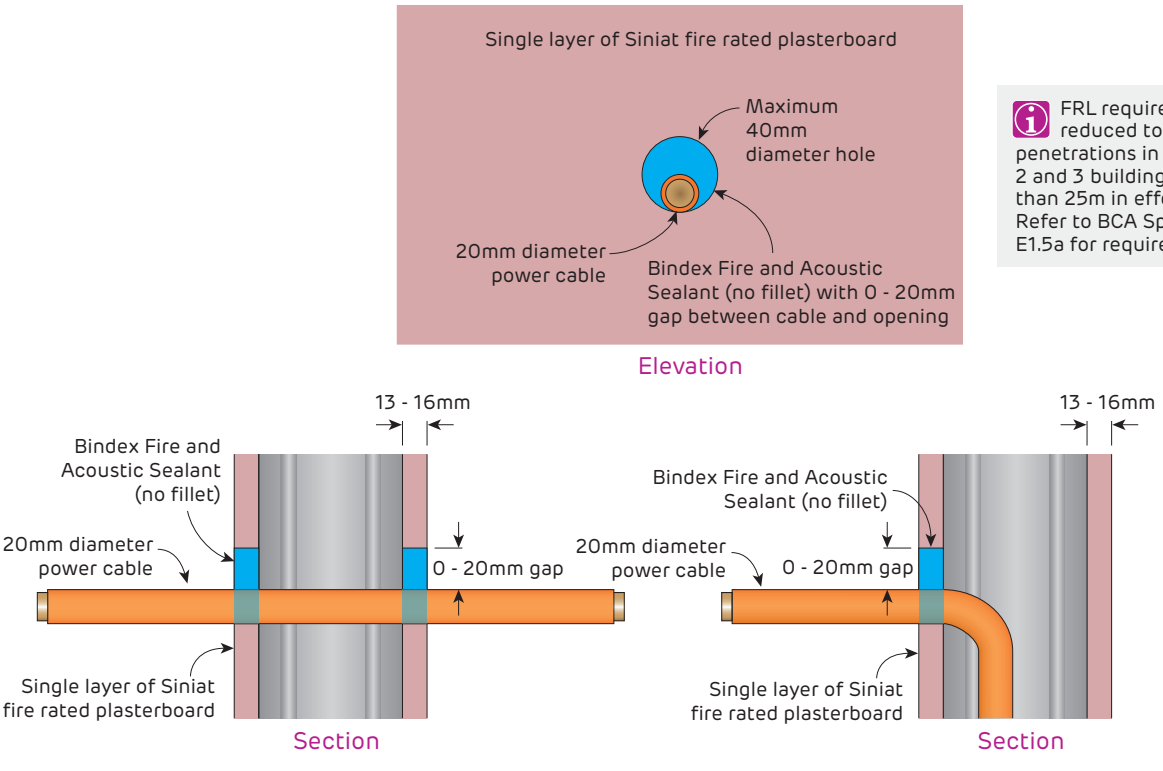
Fire Rated
TPS Power Cable Penetration Details for Stud Walls



FRL requirements may be reduced to -/45/15 for penetrations in walls of Class 2 and 3 buildings not more than 25m in effective height. Refer to BCA Specification E1.5a for required conditions.

FIGURE 167 TPS Cable Penetration
Single layer system
FRL -/60/30

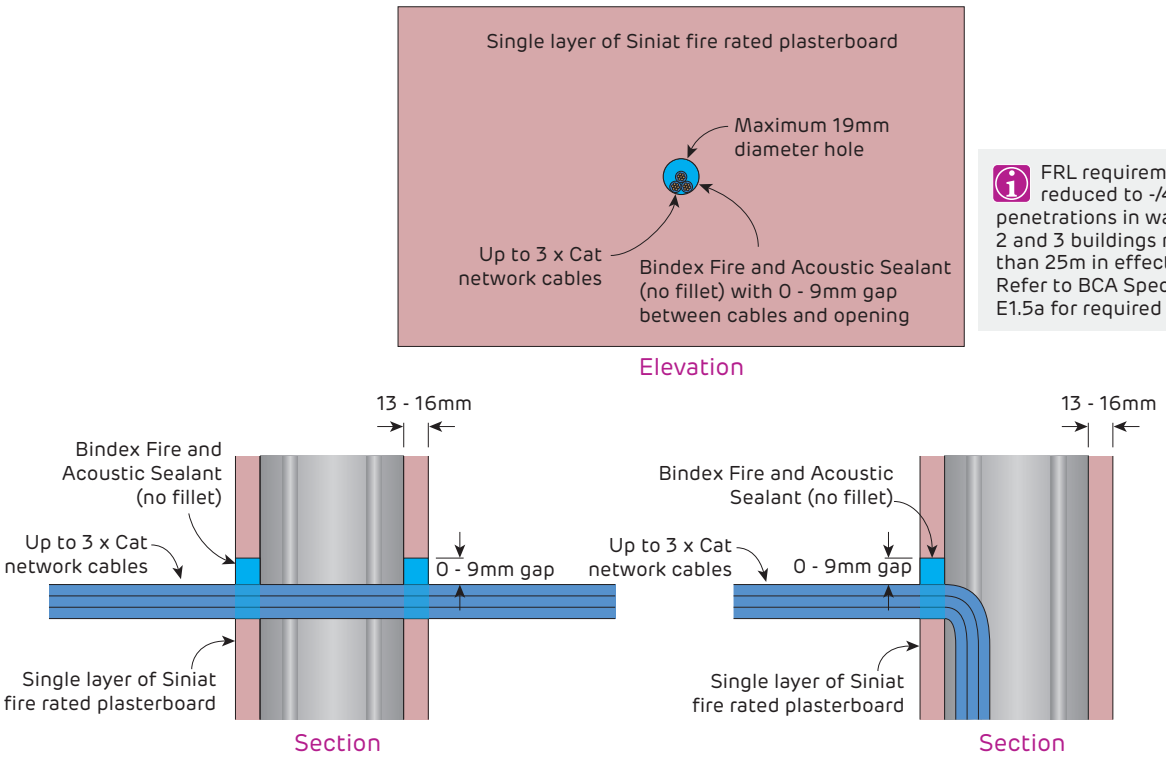
Fire Rated
Power Cable Penetration Details for Stud Walls



FRL requirements may be reduced to -/45/15 for penetrations in walls of Class 2 and 3 buildings not more than 25m in effective height. Refer to BCA Specification E1.5a for required conditions.

FIGURE 168 Power Cable Penetration
Single layer system
FRL -/60/30

Fire Rated
Cat Network Cable Penetration Details for Stud Walls



FRL requirements may be reduced to -/45/15 for penetrations in walls of Class 2 and 3 buildings not more than 25m in effective height. Refer to BCA Specification E1.5a for required conditions.

FIGURE 169 Cat Network Cable Penetration
Single layer system
FRL -/60/30

Fire Rated
Power and Telecommunication Cable Penetration Details for Stud Walls

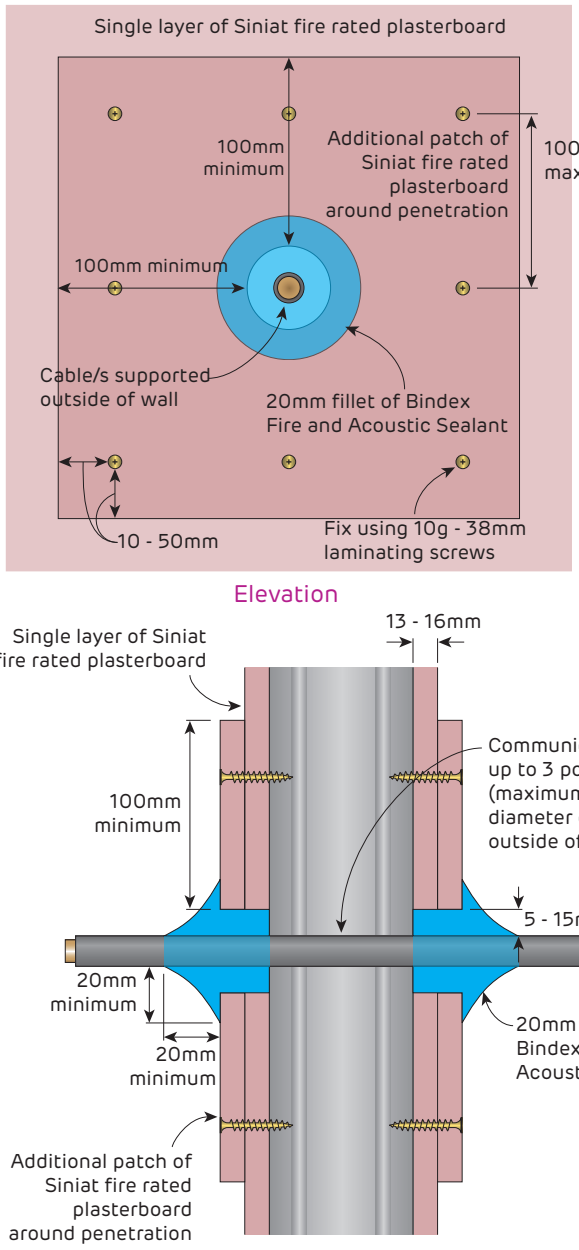


FIGURE 170 Cable Penetration - Communication cables or up to 3 power cables
Single layer system with patch
FRL -/120/60 limited by wall FRL

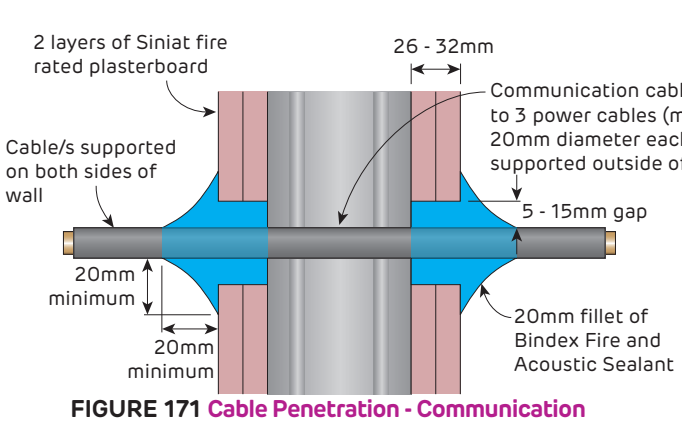


FIGURE 171 Cable Penetration - Communication cables or up to 3 power cables
Double layer system, FRL -/120/60 - Section

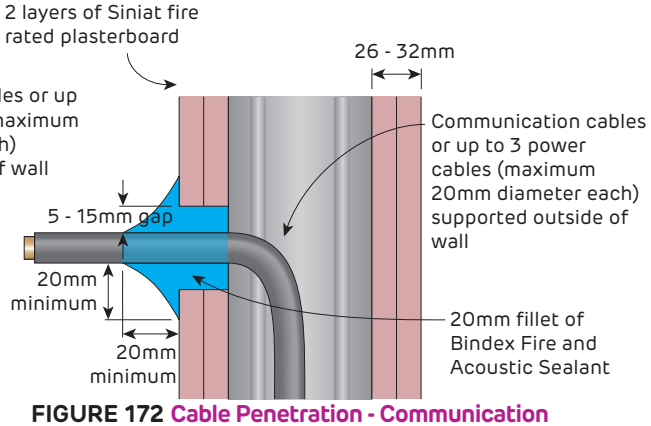
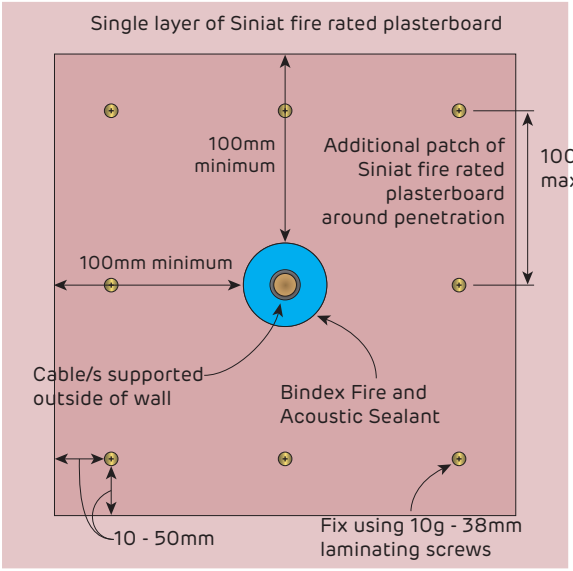
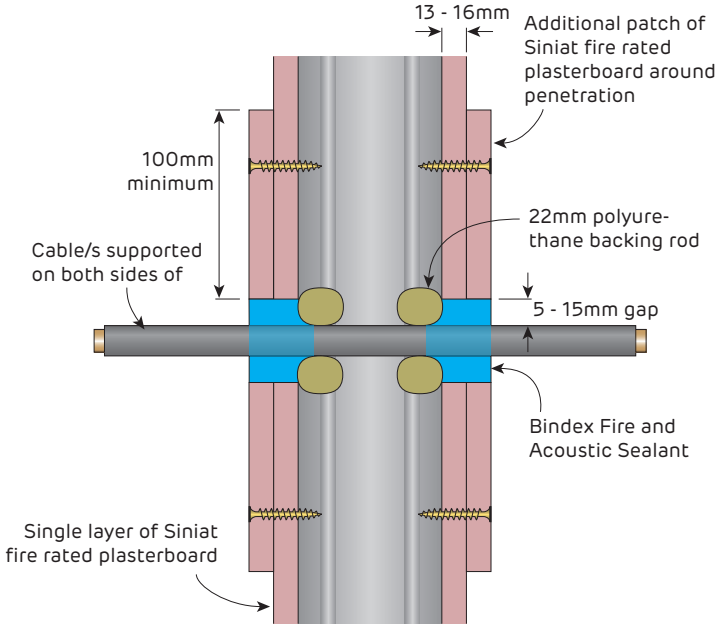


FIGURE 172 Cable Penetration - Communication cables or up to 3 power cables
Double layer system, FRL -/120/60 - Section

Fire Rated
Power and Telecommunication Cable Penetration Details for Stud Walls



Elevation



FRL requirements may be reduced to -/45/15 for penetrations in walls of Class 2 and 3 buildings not more than 25m in effective height. Refer to BCA Specification E1.5a for required conditions.

FIGURE 173 Cable Penetration - All PVC / XLPE covered copper cables
Single layer system with patch
FRL -/120/- or FRL -/120/30 with 20mm fillet of fire rated sealant on both sides, limited by wall FRL

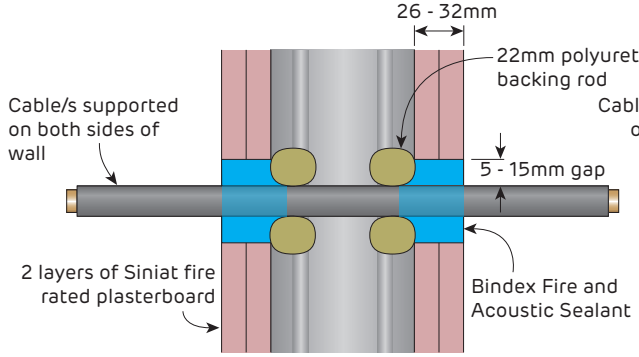


FIGURE 174 Cable Penetration - All PVC / XLPE covered copper cables
Double layer system, FRL -/120/- or FRL -/120/30 with 20mm fillet of fire rated sealant on both sides - Section

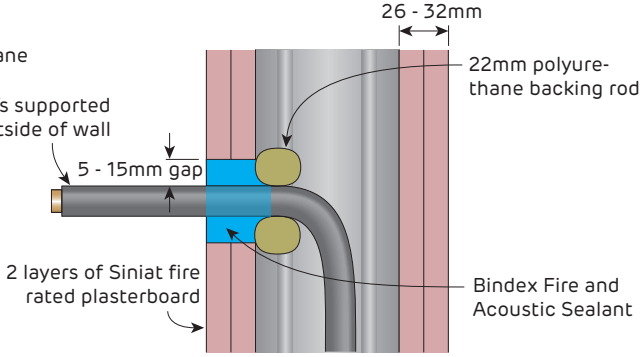
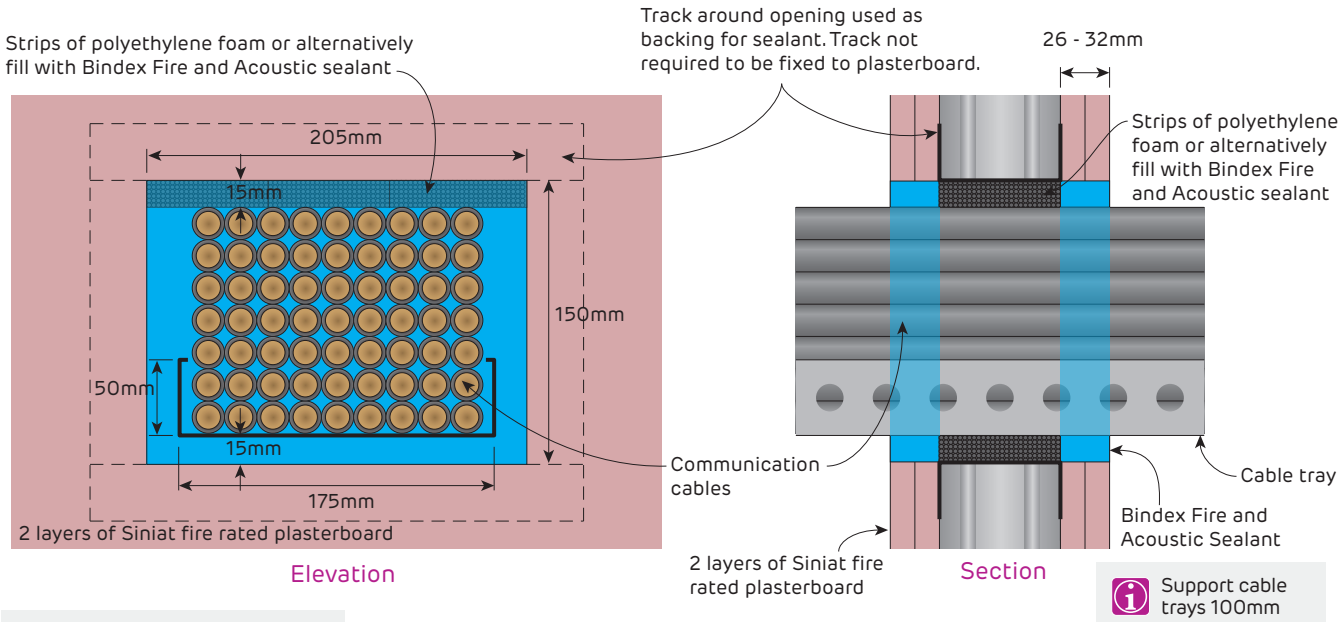


FIGURE 175 Cable Penetration - All PVC / XLPE covered copper cables
Double layer system, FRL -/120/- or FRL -/120/30 with 20mm fillet of fire rated sealant on both sides - Section

Fire Rated
Power and Telecommunication Cable Penetration Details for Stud Walls



Refer to Bindex Product Data Sheet for more information

FIGURE 176 Telecommunication Cable Tray Penetration
FRL -/120/- or FRL -/120/60 with a 20mm fillet of fire rated sealant on both sides

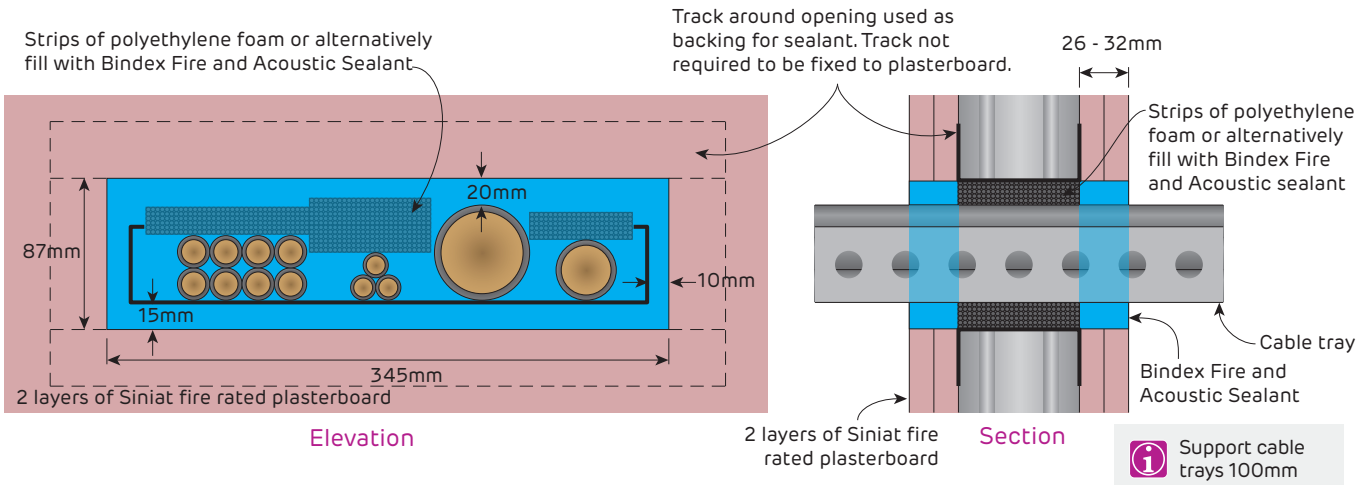


FIGURE 177 Various Power Cable Tray Penetration
FRL -/120/- or FRL -/120/30 with 20mm fillet of fire rated sealant on both sides

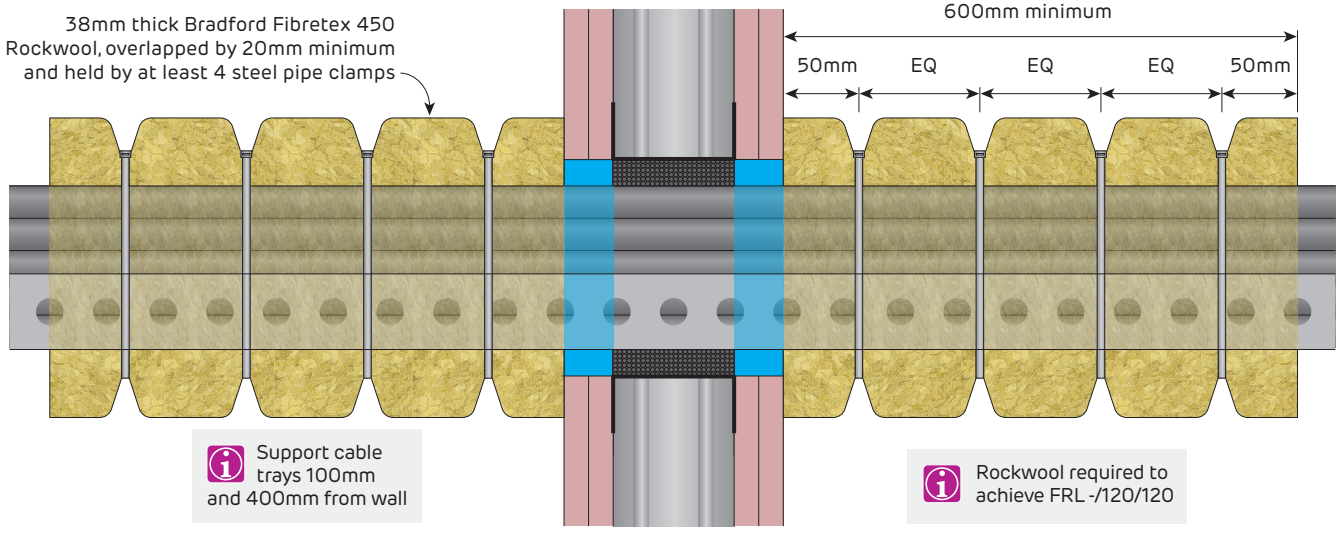


FIGURE 178 Power and Telecommunication Cables Wrapped with Rockwool
FRL -/120/120
Section

Fire Rated
Metal Pipe Penetration Details for Stud Walls

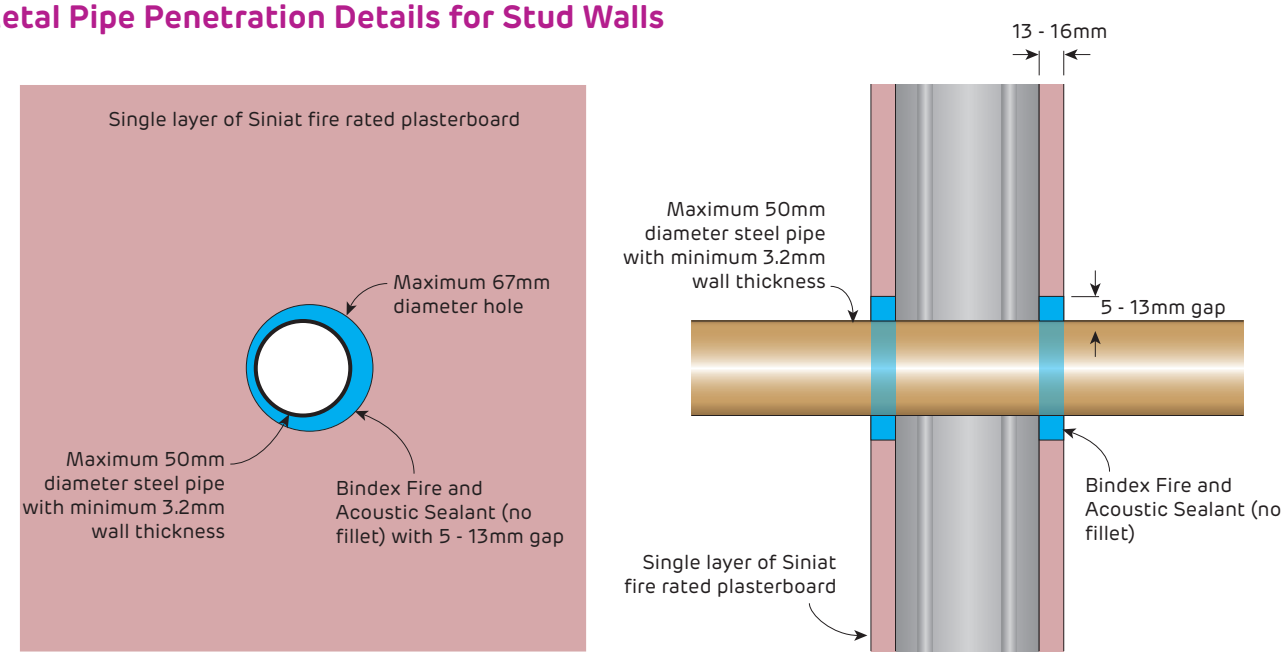


FIGURE 179 50mm diameter Steel Pipe Penetration - Single Layer System
FRL -/60/30

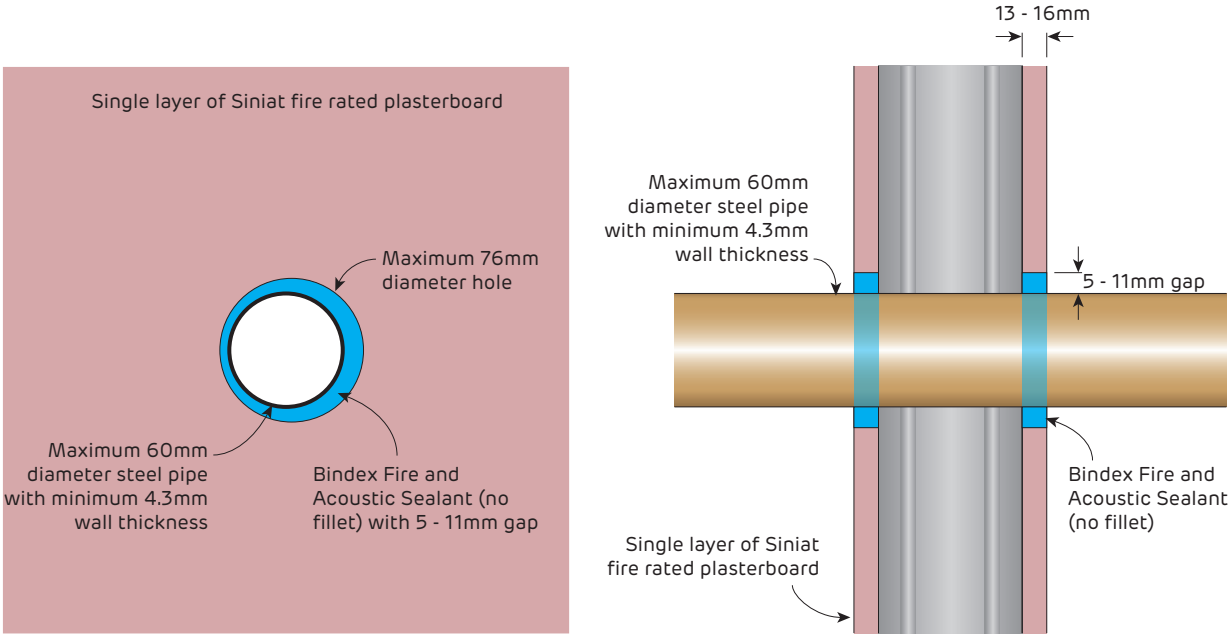


FIGURE 180 60mm diameter Steel Pipe Penetration - Single Layer System
FRL -/60/30

The insulation criteria for the metal pipe penetration may not be needed. Refer to NCC Volume One, C3.15 (a) (ii)

Fire Rated
Metal Pipe Penetration Details for Stud Walls

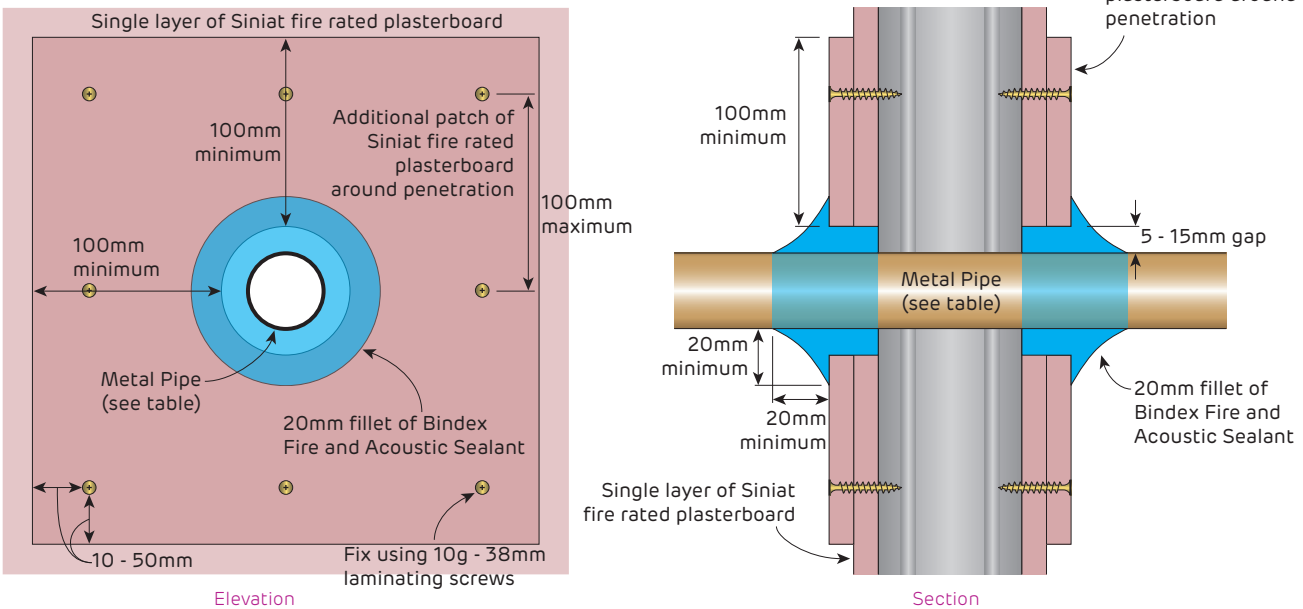


FIGURE 181 Metal Pipe Penetration - Single Layer System with Patch
FRL -/180/- limited by wall FRL

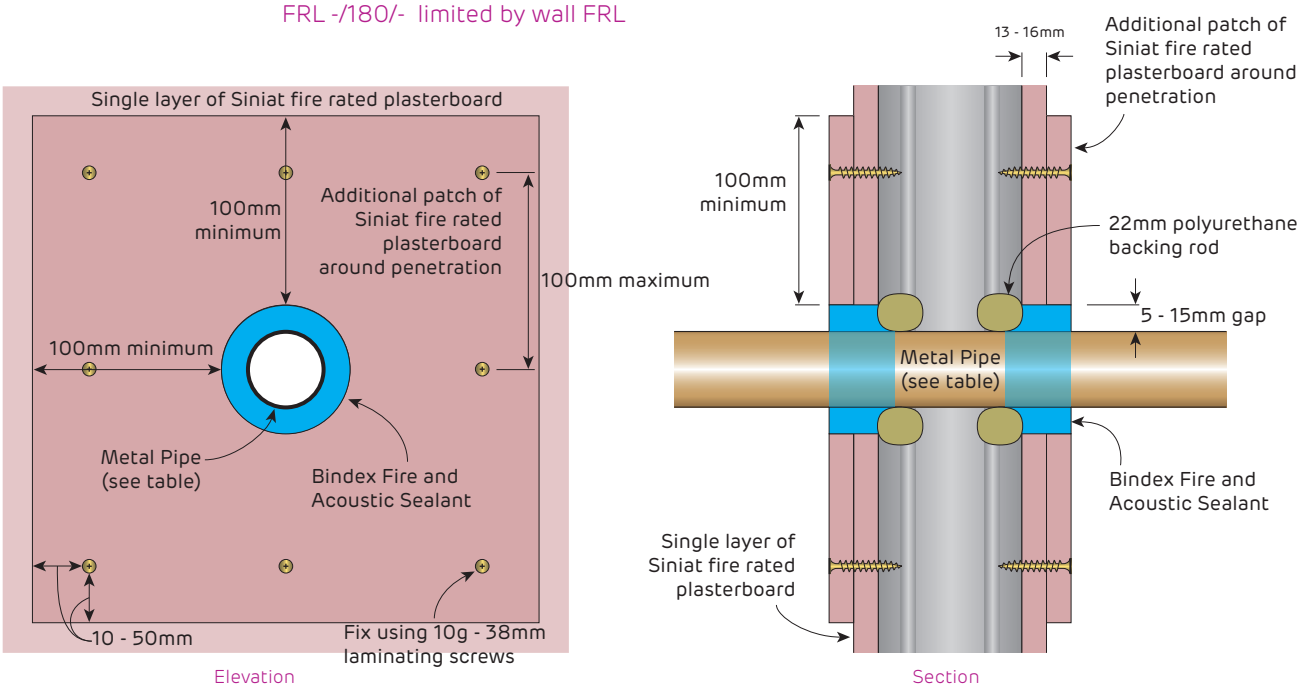


FIGURE 182 Metal Pipe Penetration - Single Layer System with Patch
FRL -/180/- limited by wall FRL

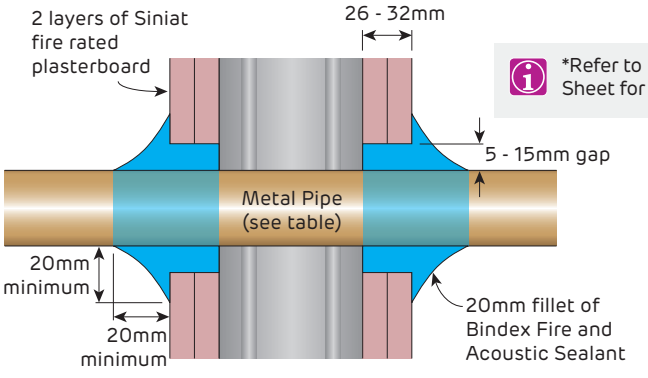


FIGURE 183 Metal Pipe Penetration
Double Layer System FRL -/180/- limited by wall FRL
Section

*Refer to Bindex Product Data Sheet for more information

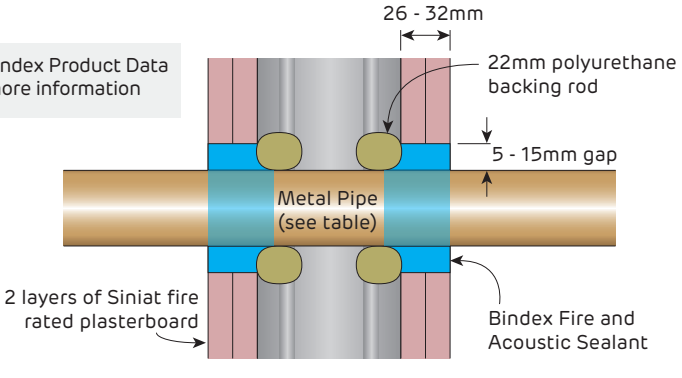


FIGURE 184 Metal Pipe Penetration
Double Layer System FRL -/180/- limited by wall FRL
Section

Fire Rated
Metal Pipe Penetration Details for Stud Walls

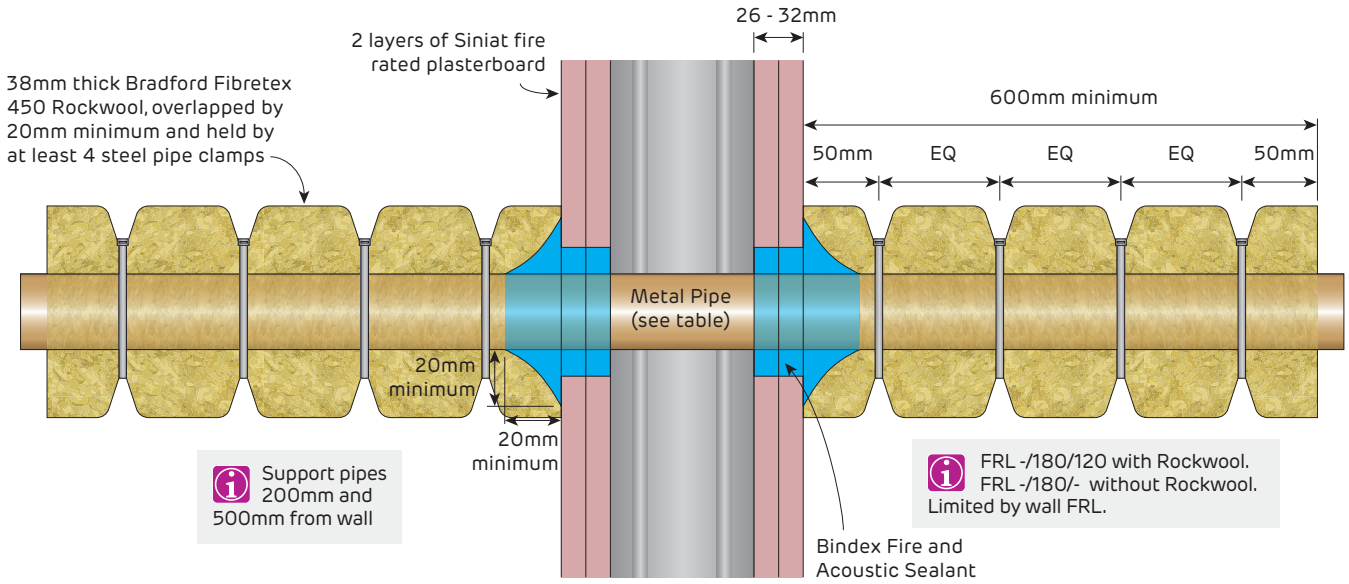


FIGURE 185 Metal Pipe Penetration wrapped with Rockwool
FRL -/180/120 limited by wall FRL
Section

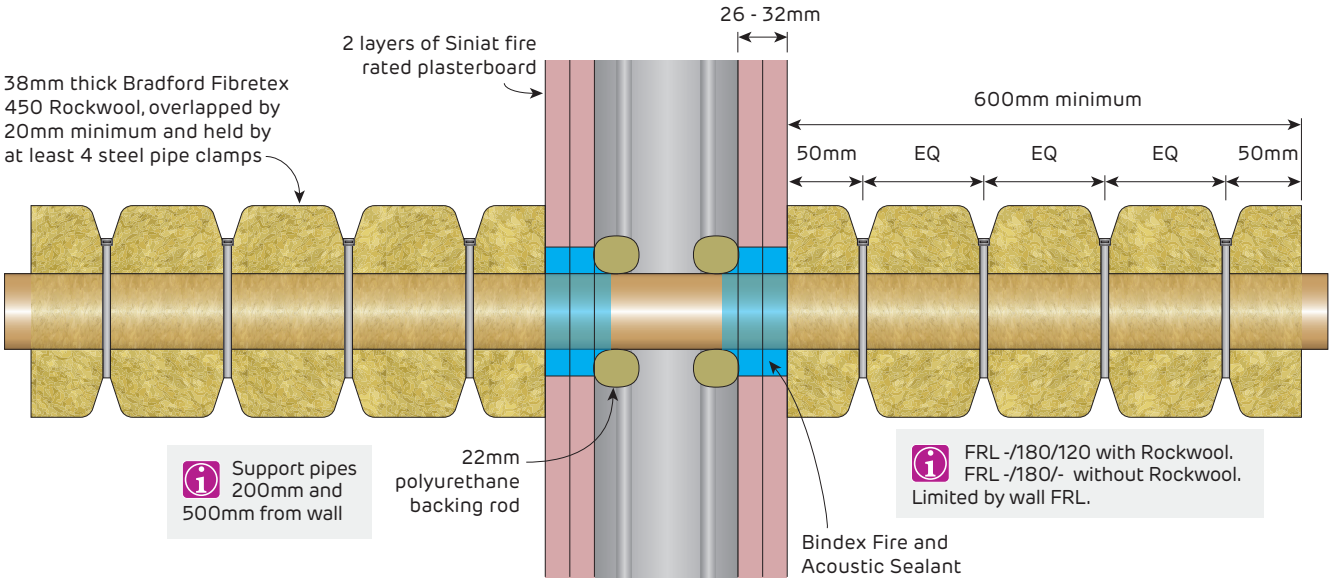


FIGURE 186 Metal Pipe Penetration wrapped with Rockwool
FRL -/180/120 limited by wall FRL
Section

Table 19 Sizes for Copper, Brass or Ferrous Pipes

Pipe Nominal Size (mm)	Maximum Pipe Diameter (mm)	Minimum Wall Thickness (mm)
32	31.75	0.91
40	38.1	0.91
50	50.8	0.91
65	63.5	0.91
80	76.2	1.22
90	88.9	1.22
100	101.6	1.22
125	127	1.42
150	152.4	1.63

Fire Rated

Flush Patching of Fire Rated Wall Systems - Maximum 150mm Metal Pipe

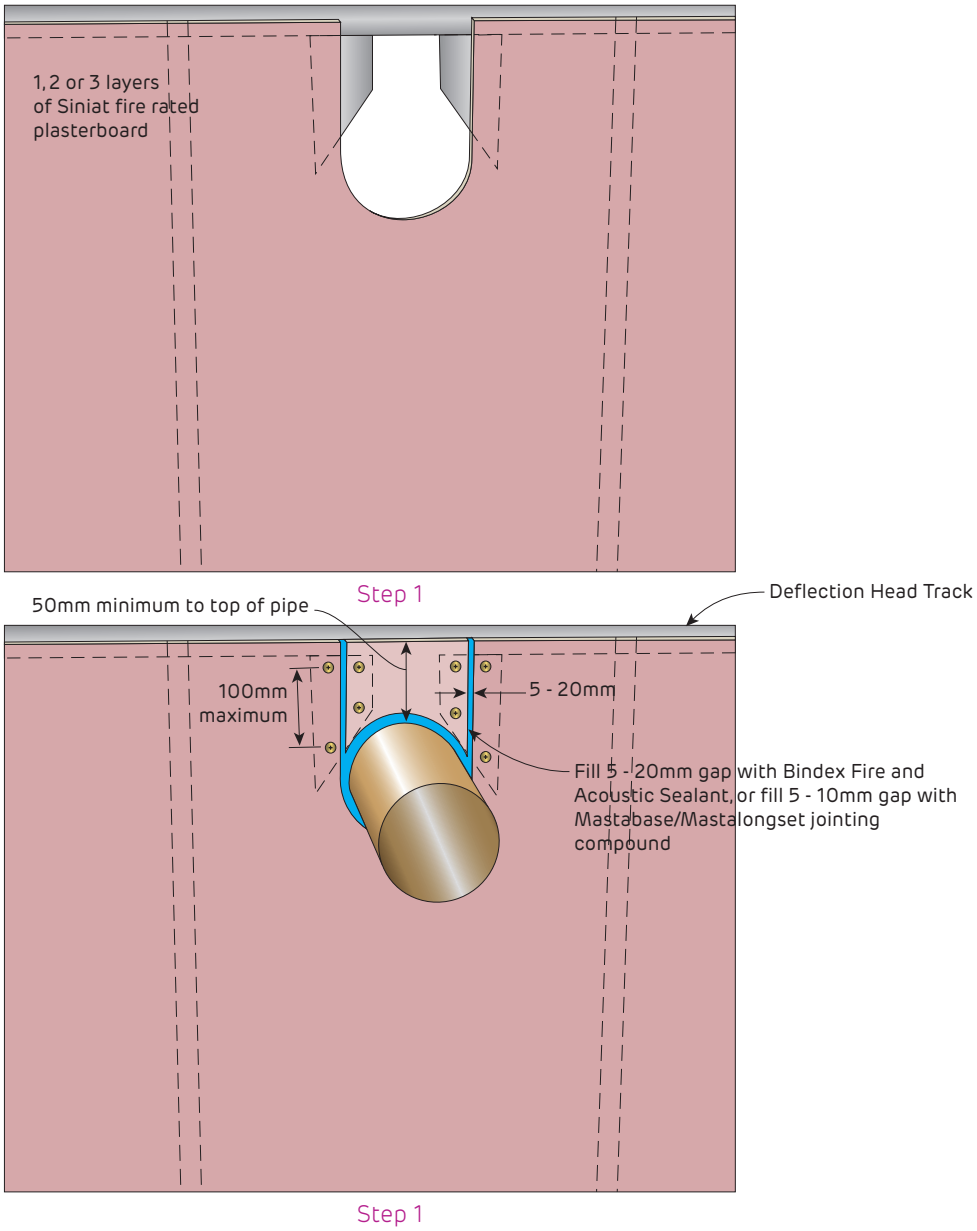
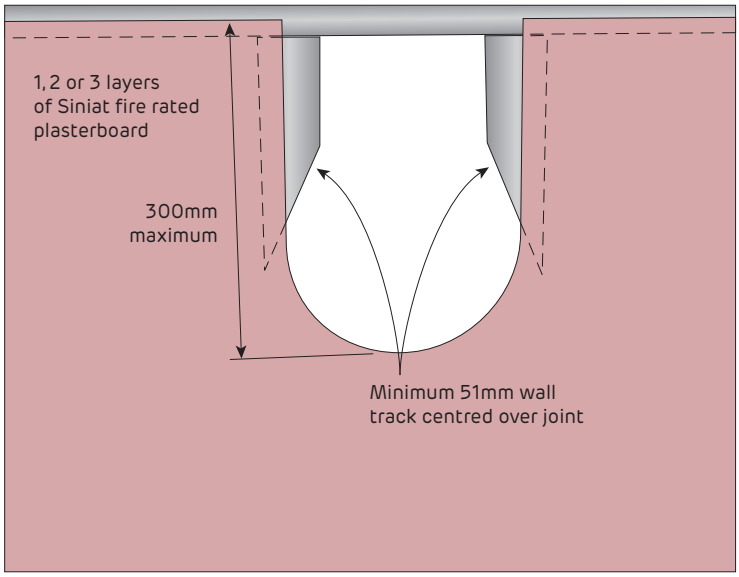


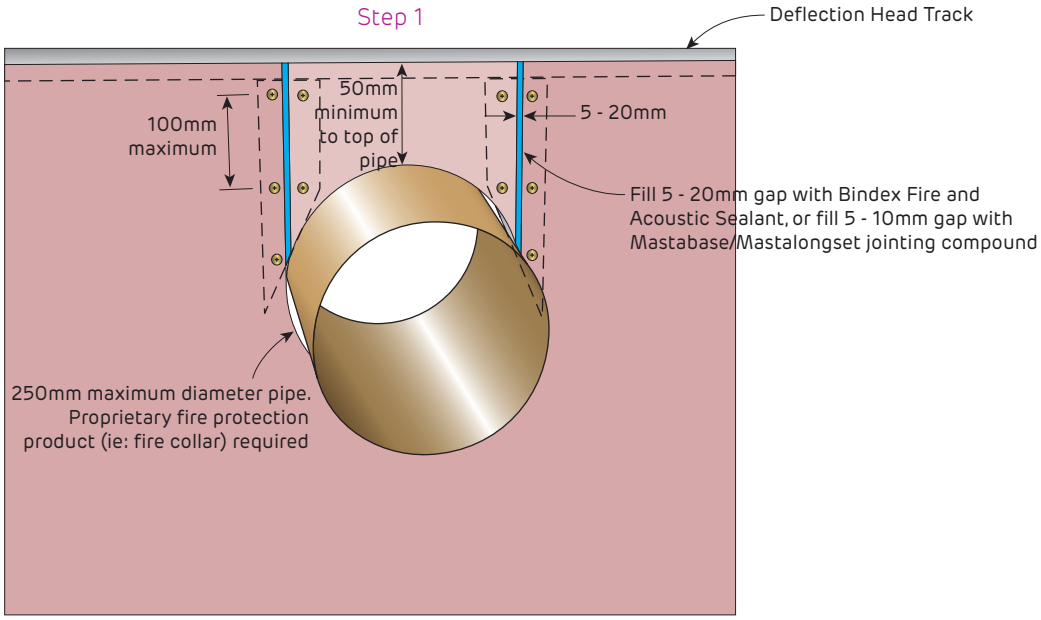
FIGURE 187 Flush patch with the lining with pipe penetration
Maximum 150mm pipes as per Table 19 - Refer to previous pages for FRL

Fire Rated

Flush Patching of Fire Rated Wall Systems - Maximum 250mm Metal or PVC Pipe



Step 1



Step 2

Refer to proprietary fire protection product manufacturer for performance and installation instructions.

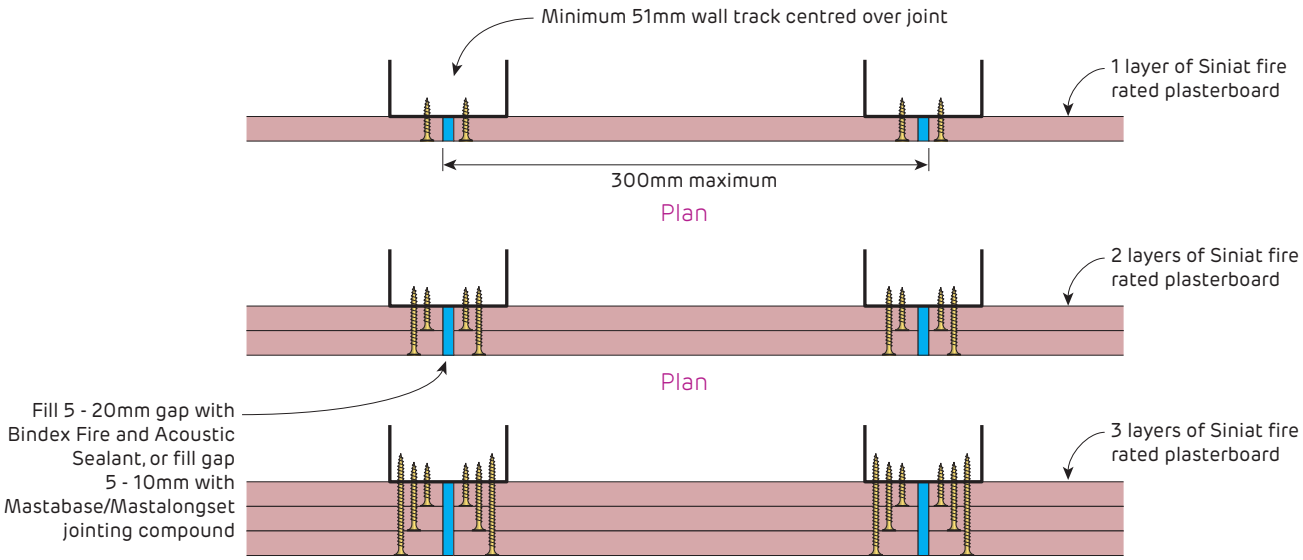
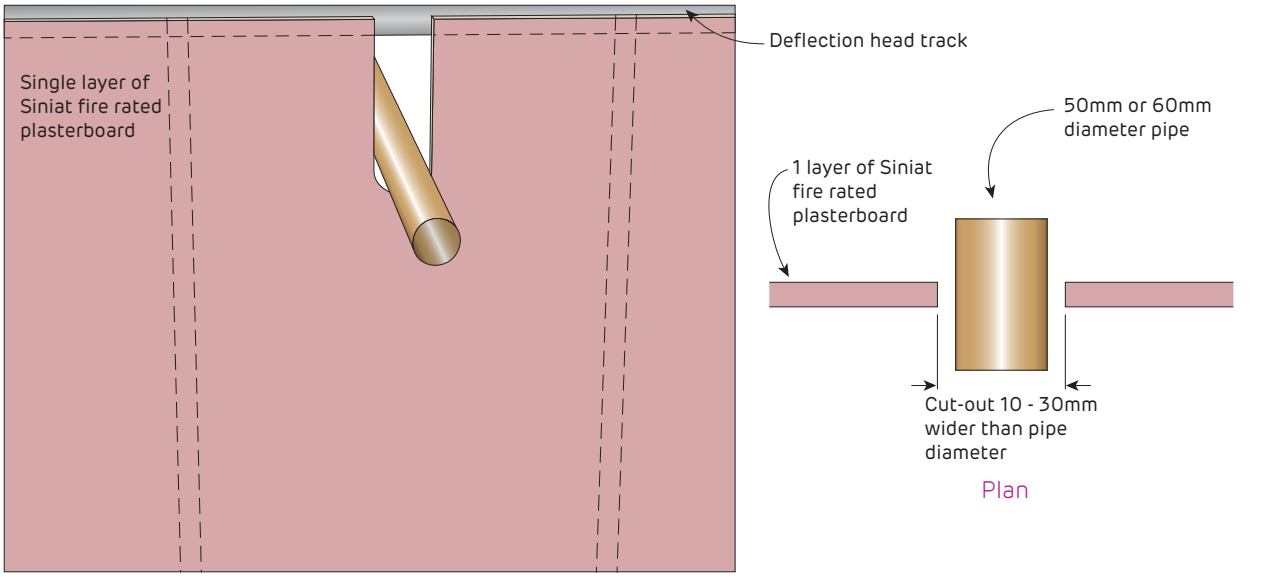


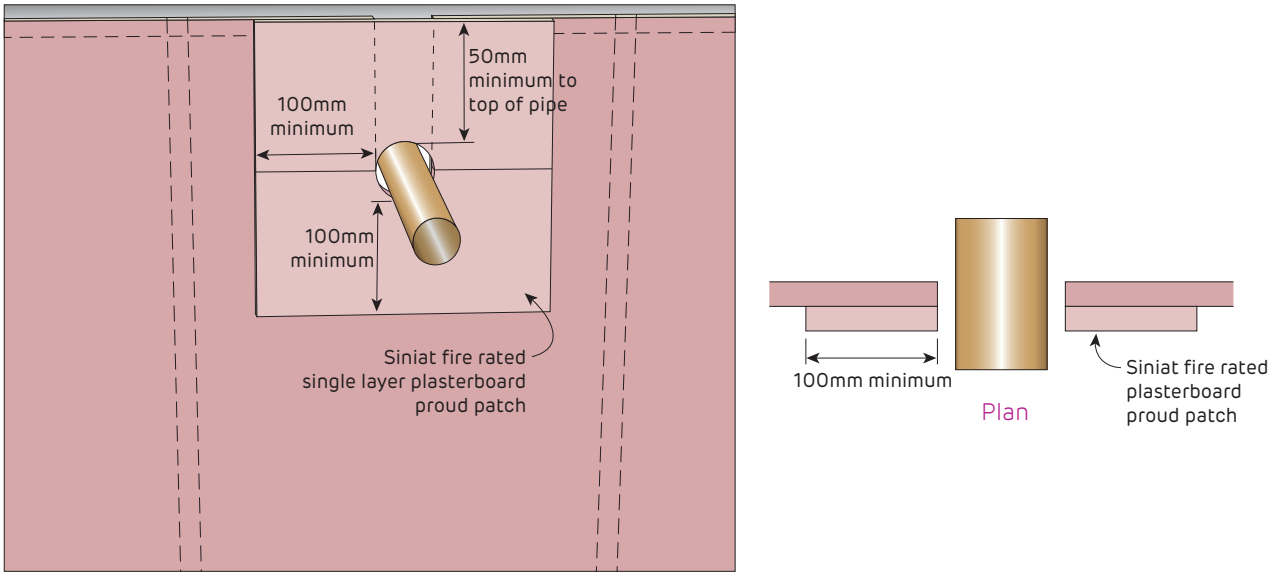
FIGURE 188 Flush patch with the lining with pipe penetration
Maximum 250mm diameter pipe - FRL depends on selected proprietary penetration seal

Fire Rated

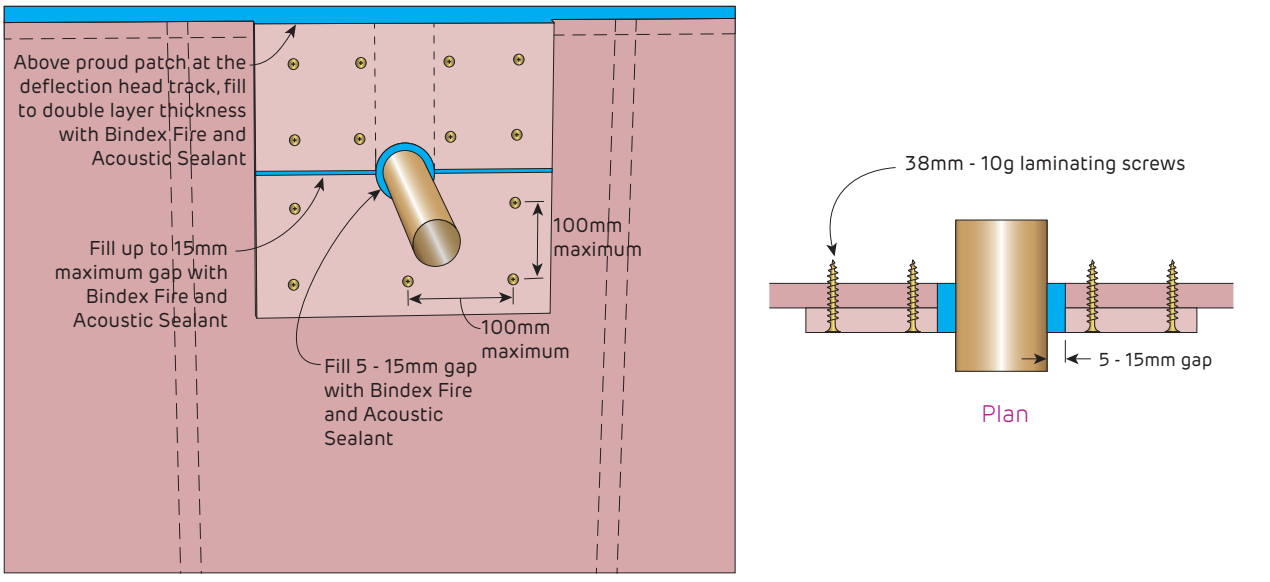
Patching of Pipe Near Deflection Head Track - Single Layer - 50mm or 60mm dia Steel Pipe



Step 1



Step 2



Step 3

FIGURE 189 Proud patch around pipe penetration near deflection head track
Maximum 60mm diameter pipe - FRL -/60/30

Fire Rated

Patching of Pipe Near Deflection Head Track - Single Layer - Maximum 150mm Metal Pipe

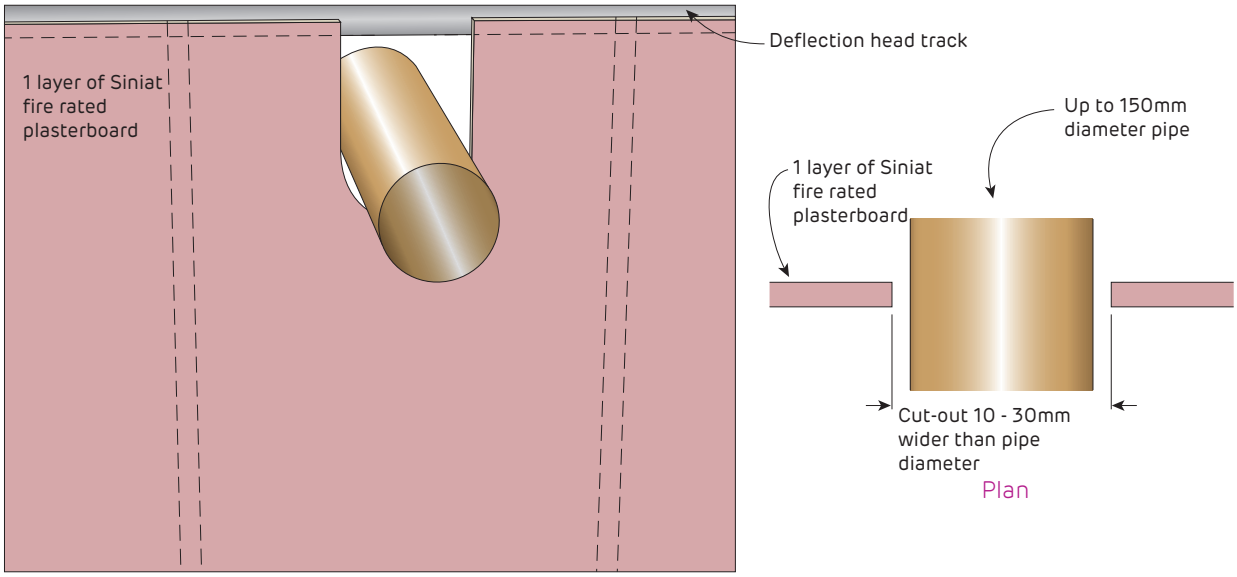
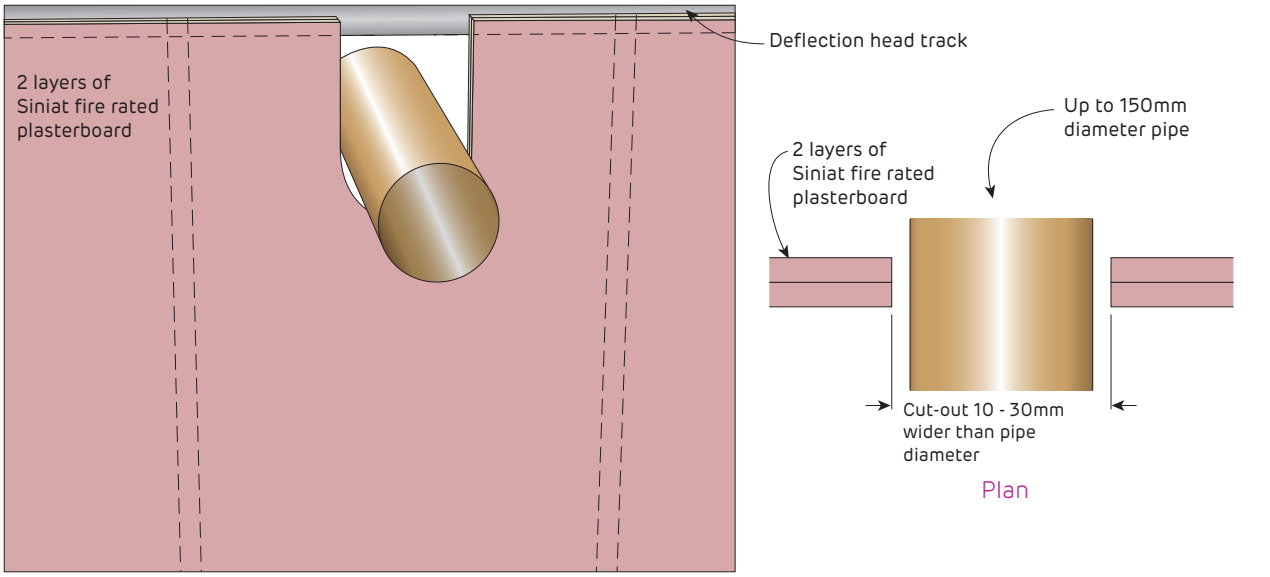


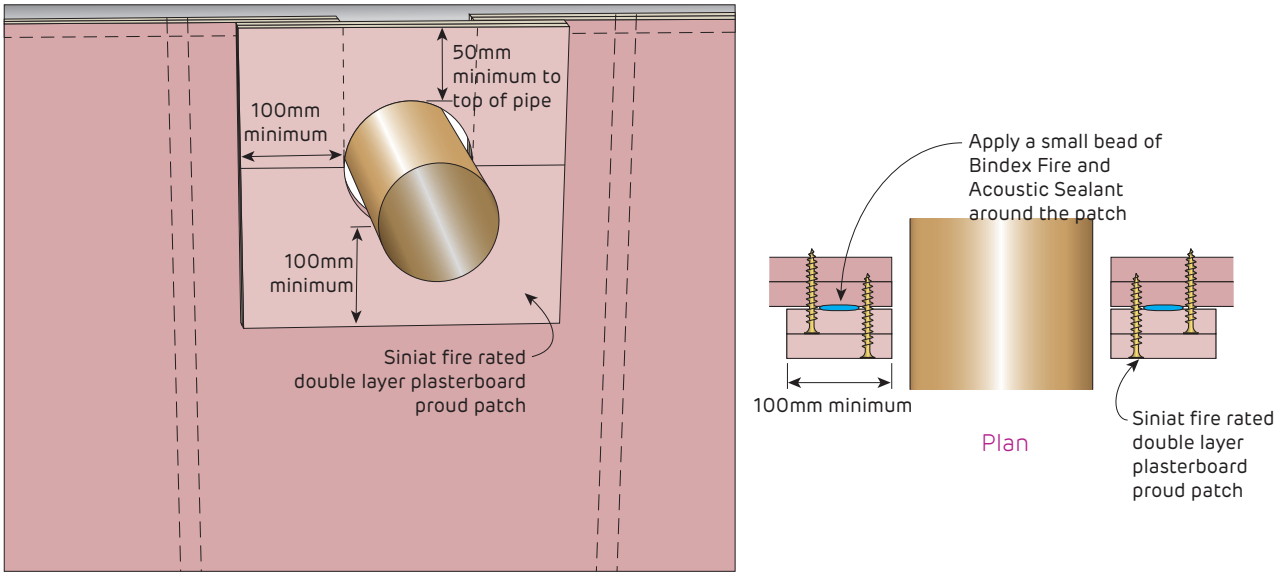
FIGURE 190 **Proud patch around pipe penetration near deflection head track**
Maximum 150mm pipes as per Table 19, FRL -/180/- or -/180/120 with Rockwool as previously shown, with FRL limited by wall FRL

Fire Rated

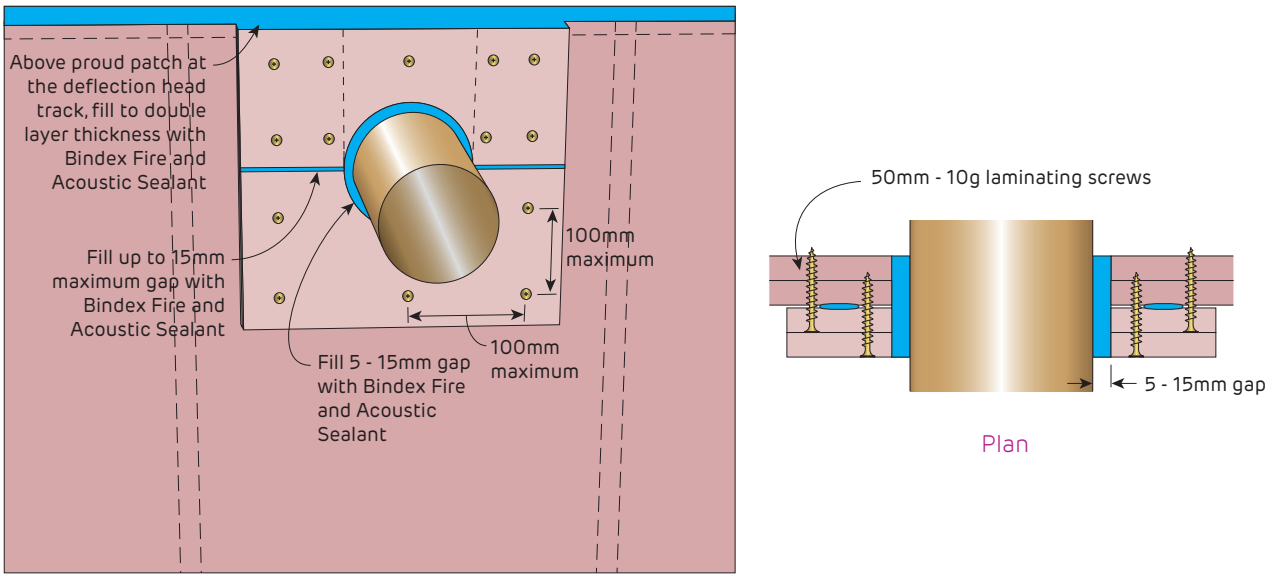
Patching of Pipe Near Deflection Head Track - 2 Layers - Maximum 150mm Pipe



Step 1



Step 2



Step 3

FIGURE 191 **Proud patch around pipe penetration near deflection head track**
Maximum 150mm pipes as per Table 19, FRL -/180/- or -/180/120 with Rockwool as previously shown, with FRL limited by wall FRL

Fire Rated
PVC Pipe Penetration Detail for Stud Walls

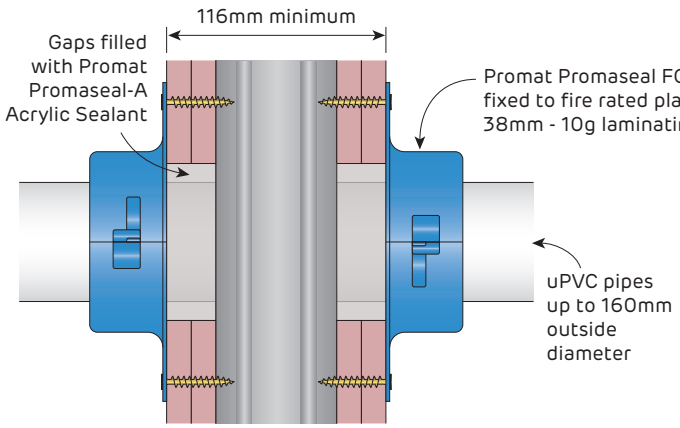


FIGURE 192 Fire Collar for Plastic Pipes
Promat Promaseal FC Retrofit Collar Up to FRL -/120/120 - Section

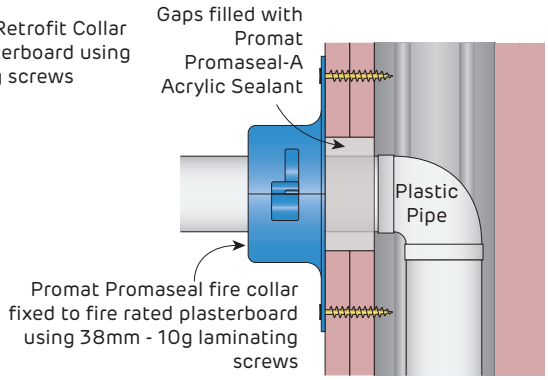


FIGURE 193 Fire Collar for Plastic Pipes
Promat Promaseal FC Retrofit Collar Up to FRL -/120/120 - Section

Refer to Promat for specific performance and installation instructions

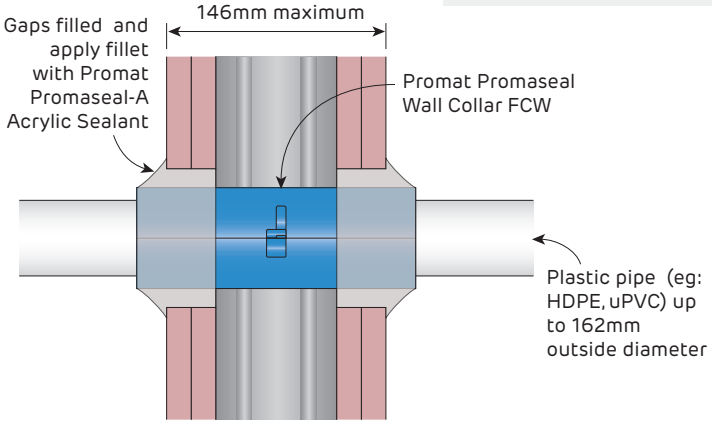


FIGURE 194 Fire Collar for Plastic Pipes
Promat Promaseal Wall Collar - Up to FRL -/120/120 Section

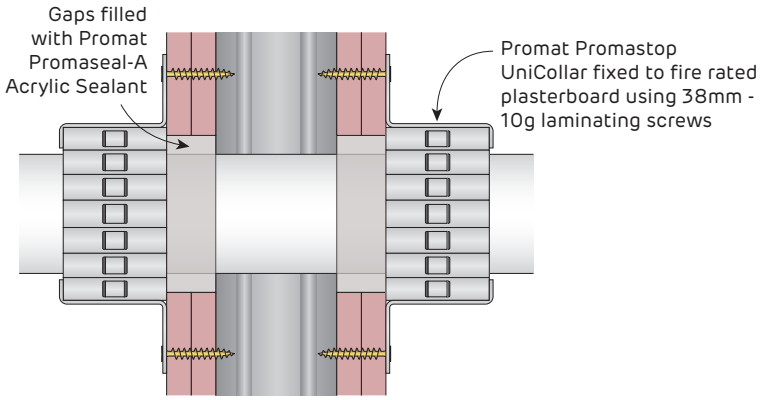


FIGURE 195 Fire Collar for Plastic Pipes
Promat Promastop UniCollar - Up to FRL -/120/120 Section

PVC pipe size limited to 100mm maximum diameter using Promastop UniCollar in FRL -/60/60 walls

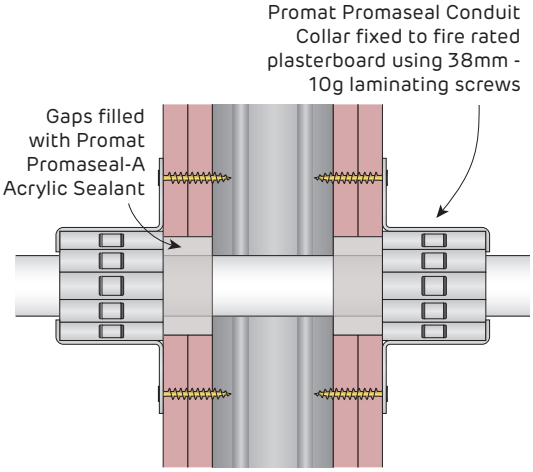


FIGURE 196 Fire Collar for Plastic Conduit
Promat Promaseal Conduit Collar - Up to FRL -/120/120 Section

Fire Rated
PVC Pipe Clash with Stud Walls

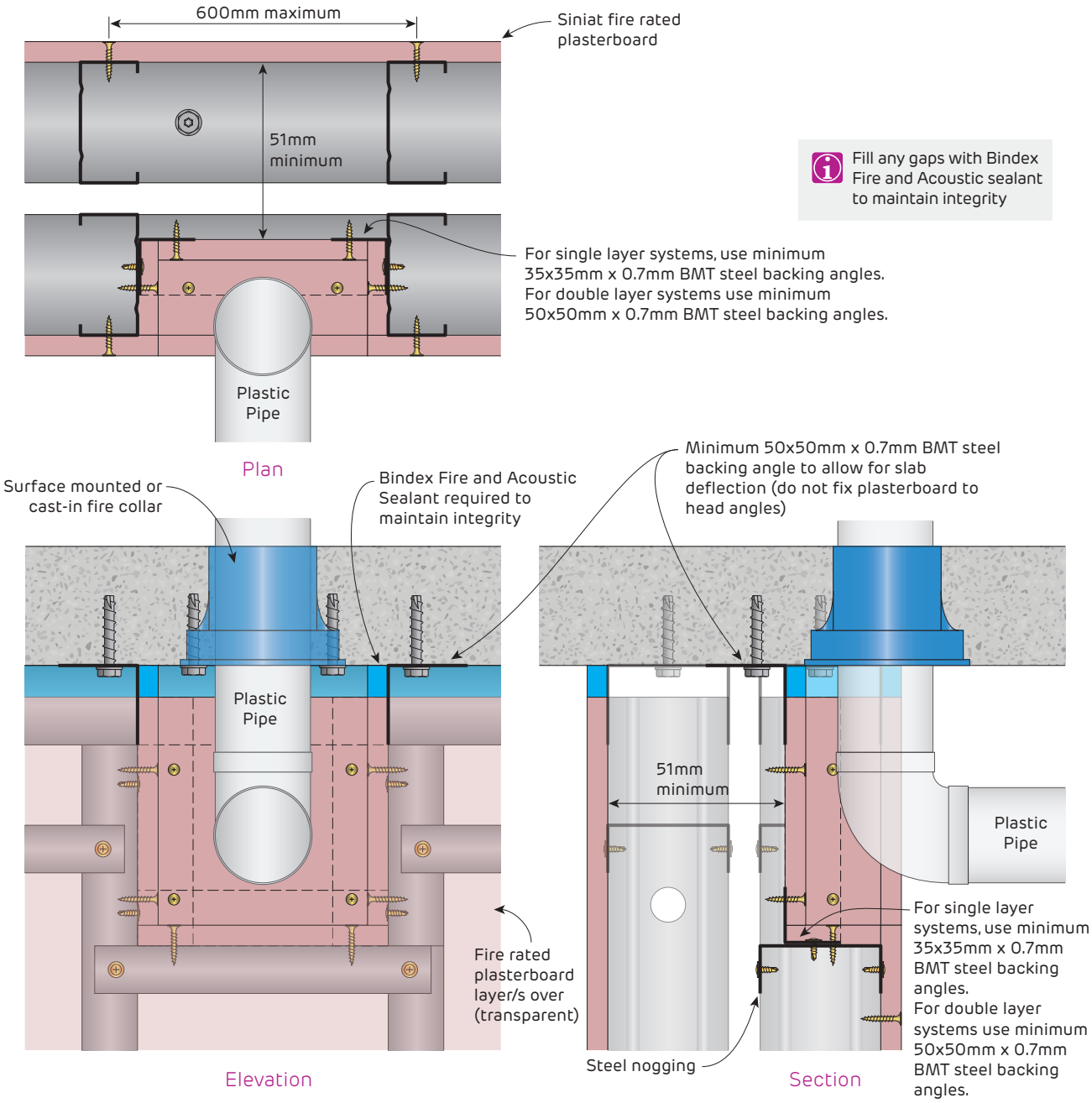


FIGURE 197 Alcove for Plastic Pipe clash through Head Track
Wall FRL 60/60/60 with 16mm fire rated plasterboard on both sides
Wall FRL 90/90/90 with 2 x 13mm fire rated plasterboard on both sides
Wall FRL 120/120/120 with 2 x 16mm fire rated plasterboard on both sides
Section

Fire Rated
Plasterboard Joints with Bindex Fire and Acoustic Sealant

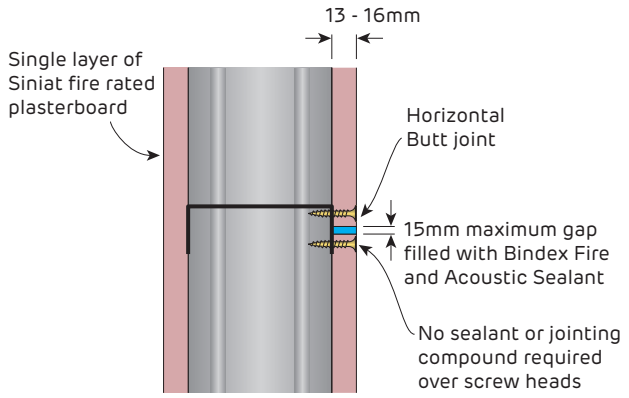


FIGURE 198 Horizontal Joints in Single Layer Systems
Butt Joints Only
Section

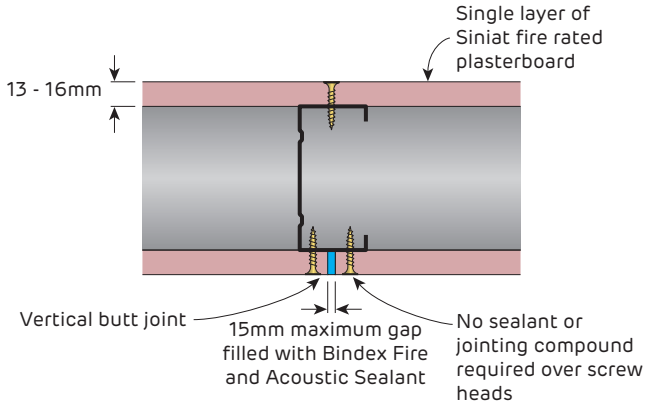


FIGURE 199 Vertical Joints in Single Layer Systems
Butt Joints Only
Plan

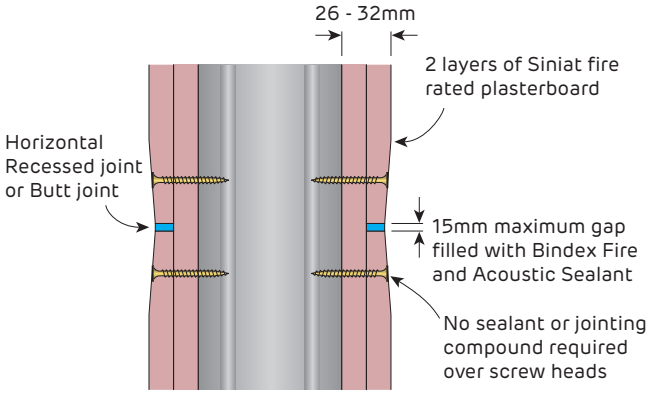


FIGURE 200 Horizontal Joints in Double Layer Systems
Recessed and Butt Joints
Section

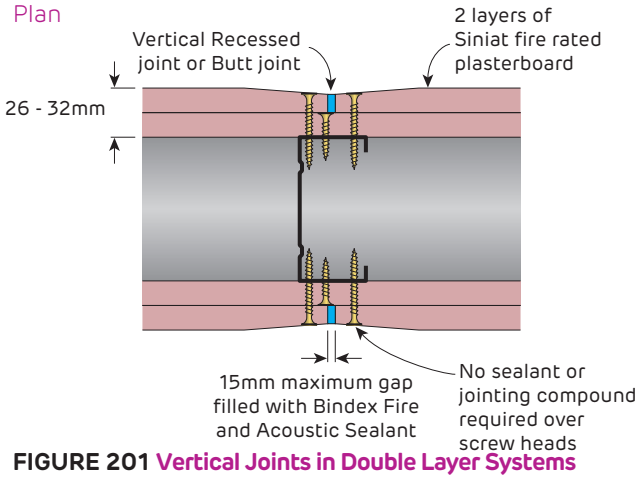


FIGURE 201 Vertical Joints in Double Layer Systems
Recessed and Butt Joints
Plan

Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

Fire Rated
Fire Damper or Access Panel Opening Detail for Stud Walls

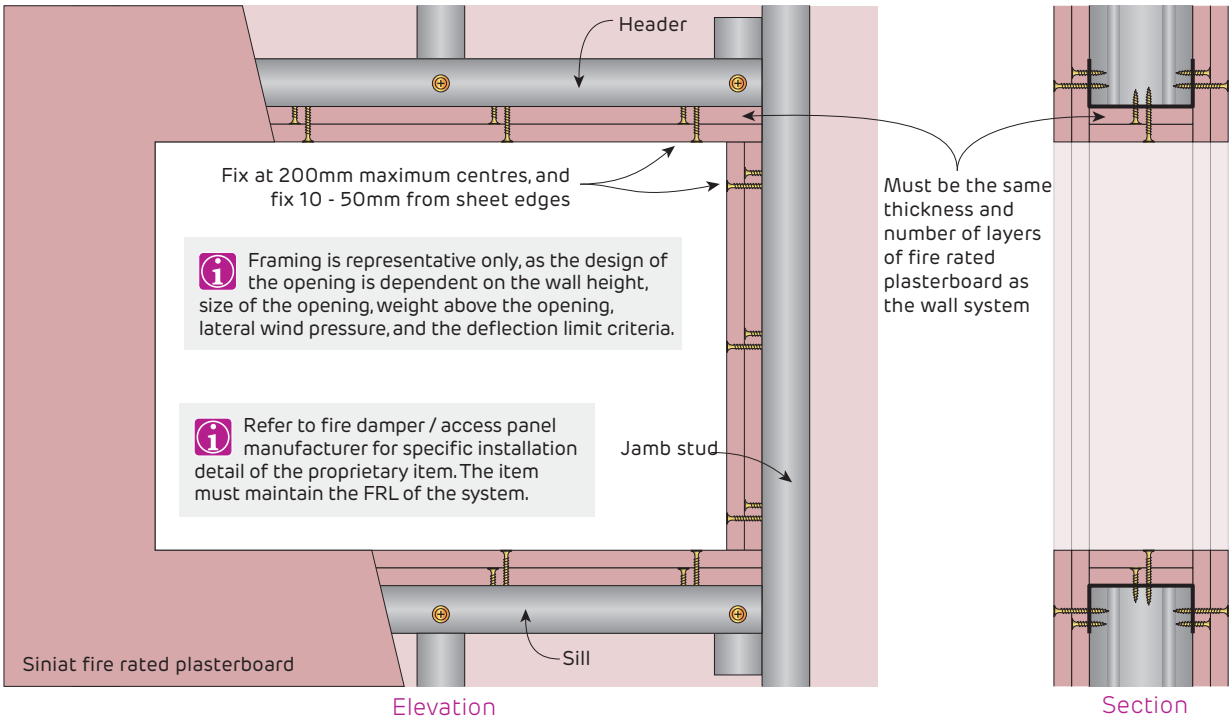


FIGURE 202 Typical Opening Detail for Fire Damper or Access Panel

Fire Rated and Non-Fire Rated
Plumbing Penetration Details for Stud Walls

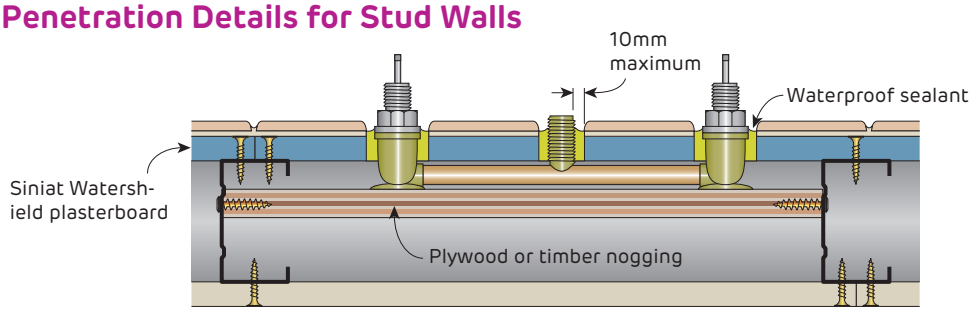


FIGURE 203 Plumbing Penetrations
Plan

Isolate copper and brass fitting from steel framing.

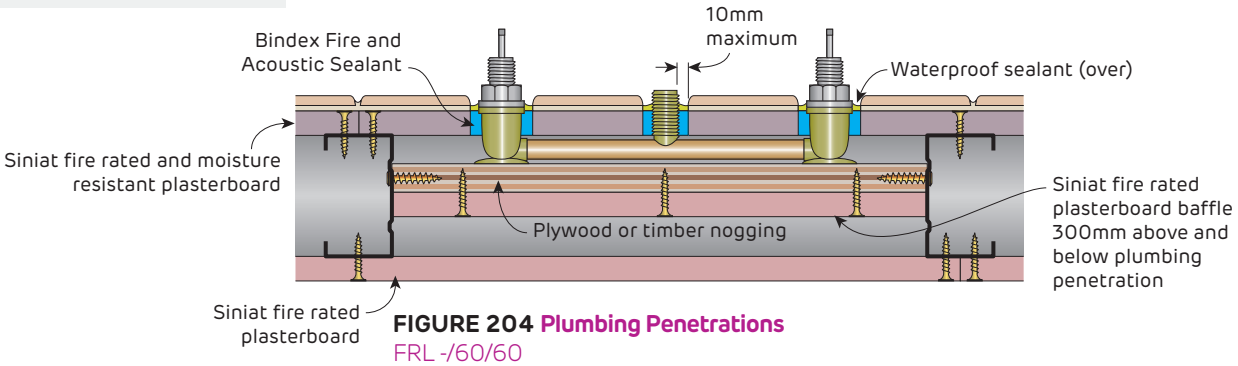


FIGURE 204 Plumbing Penetrations
FRL -/60/60
Fire rated single layer systems - Plan

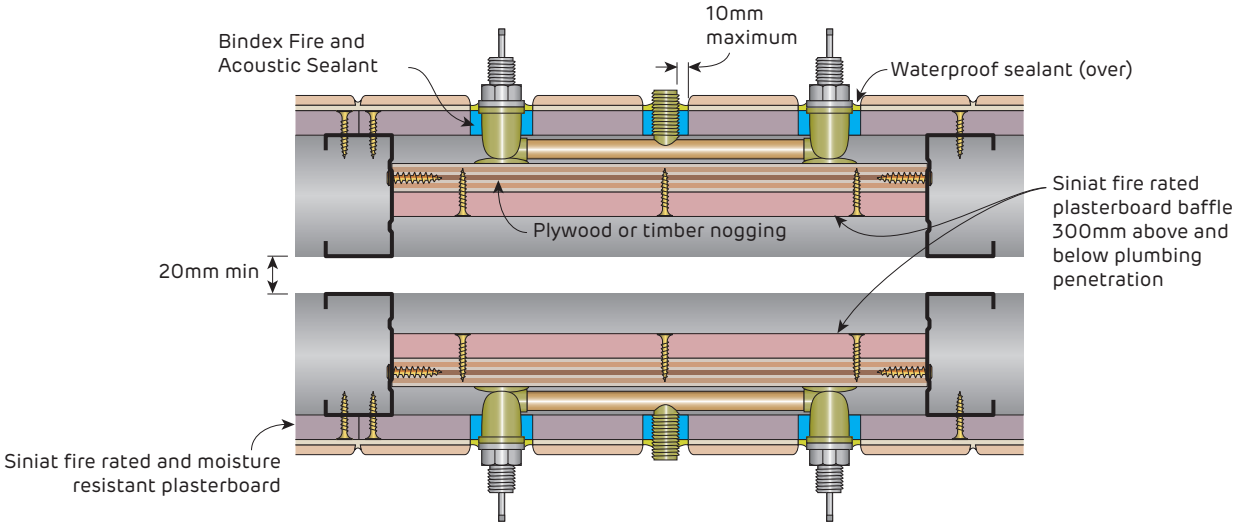


FIGURE 205 Plumbing Penetrations
FRL -/60/60
Fire rated single layer systems - Plan

Fire Rated
Plumbing Penetration Details for Stud Walls

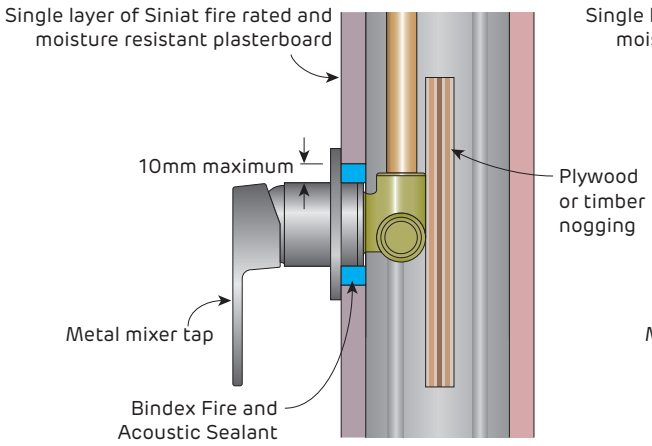


FIGURE 206 Plumbing Penetration
FRL -/60/-
Fire rated single layer systems - Section

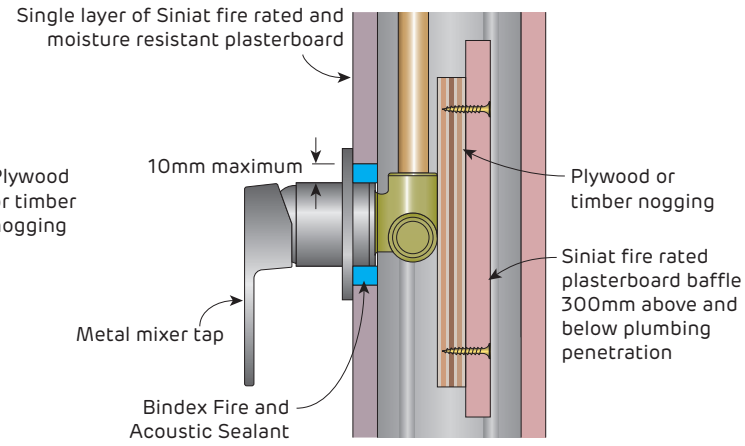


FIGURE 207 Plumbing Penetration
FRL -/60/60
Fire rated single layer systems - Section

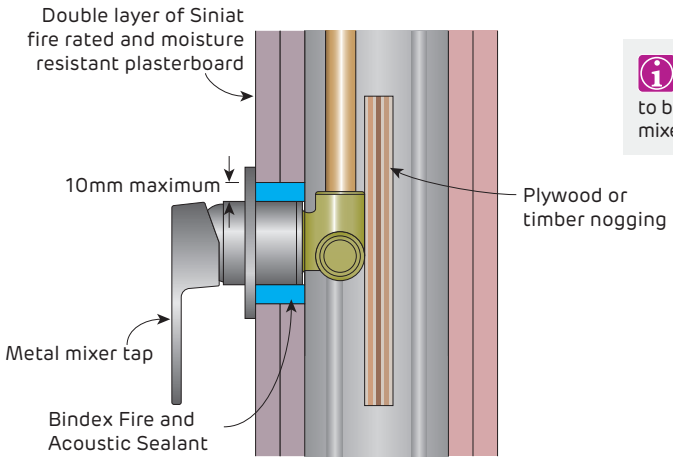
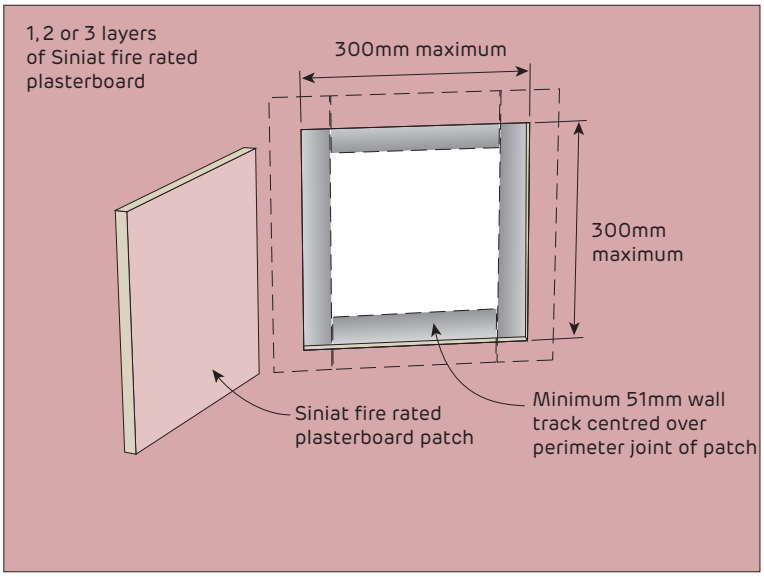


FIGURE 208 Plumbing Penetration
FRL -/120/-
Fire rated double layer systems - Section

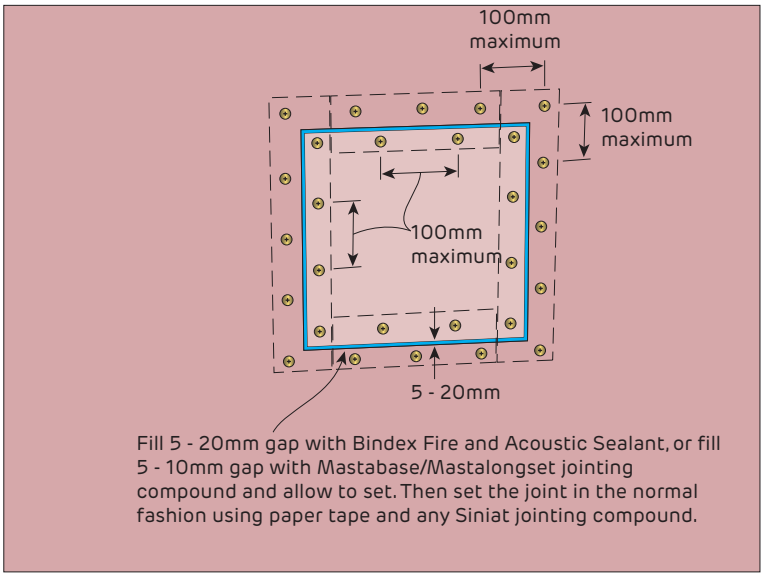
Fire rated details on this page only apply to brass, copper, and steel mixer taps and tap sets.

Fire Rated

Flush Patching of Fire Rated Wall Systems - Maximum 300x300mm Opening



Step 1



Step 2

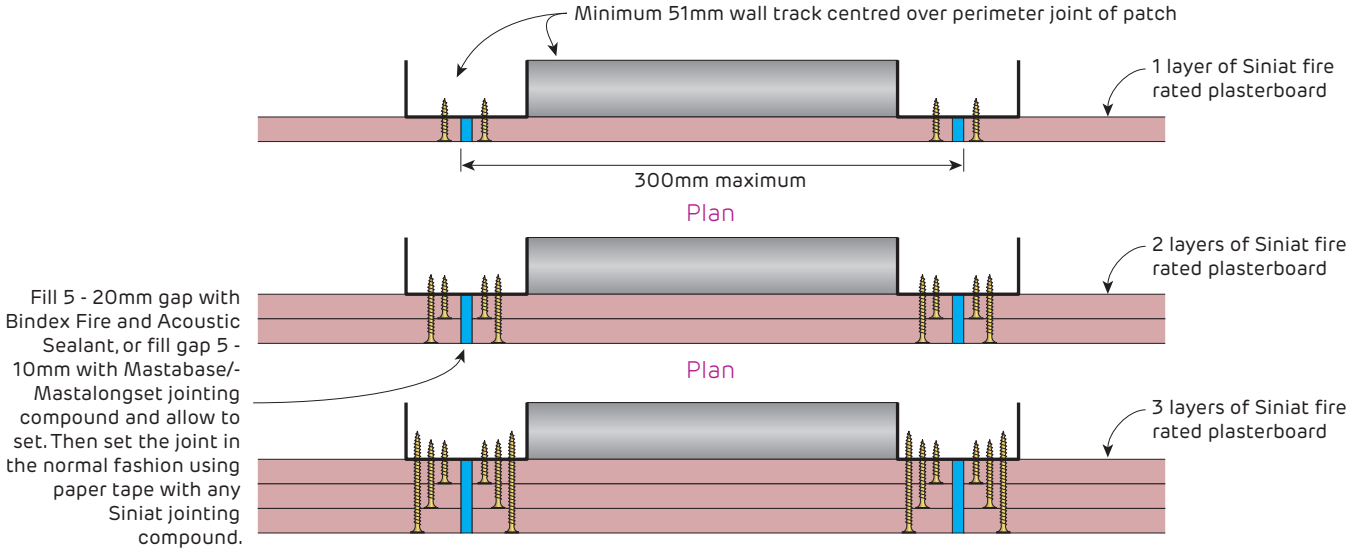
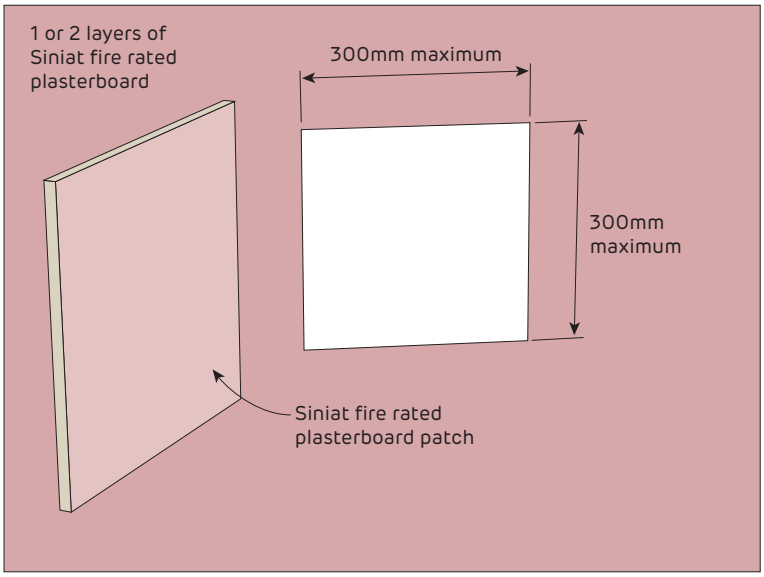


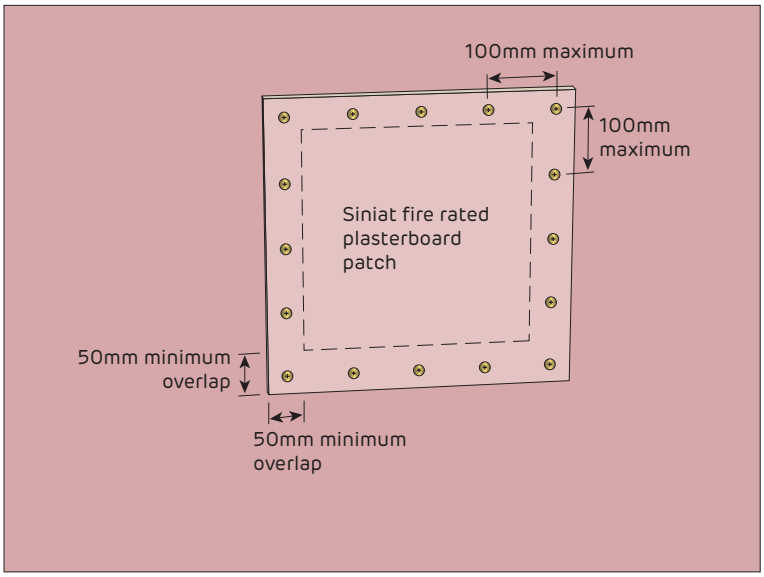
FIGURE 209 Flush patch
Maximum 300x300mm opening
Maintains FRL of system

Fire Rated

Proud Patching of Fire Rated Wall Systems - Maximum 300x300mm Opening

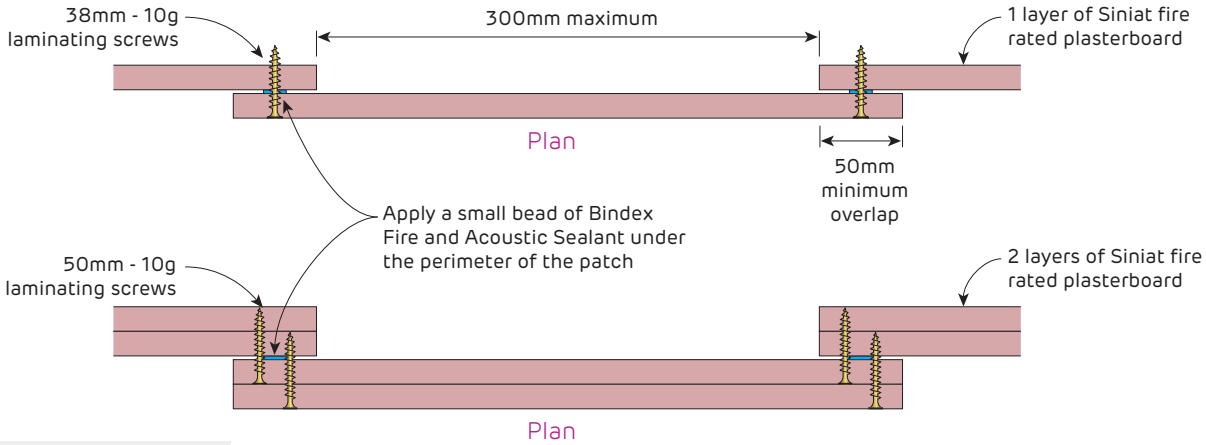


Step 1



Step 2

Fire rated plasterboard patch must be the same thickness and number of layers as the base fire rated system

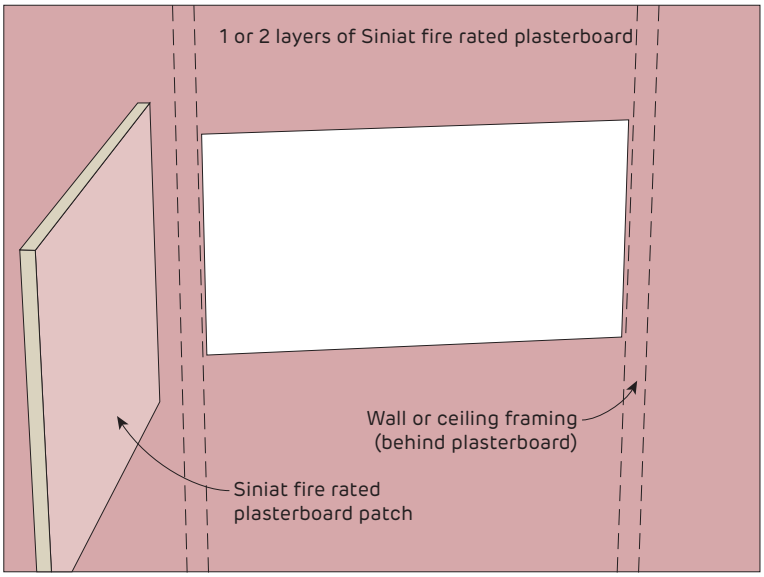


Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

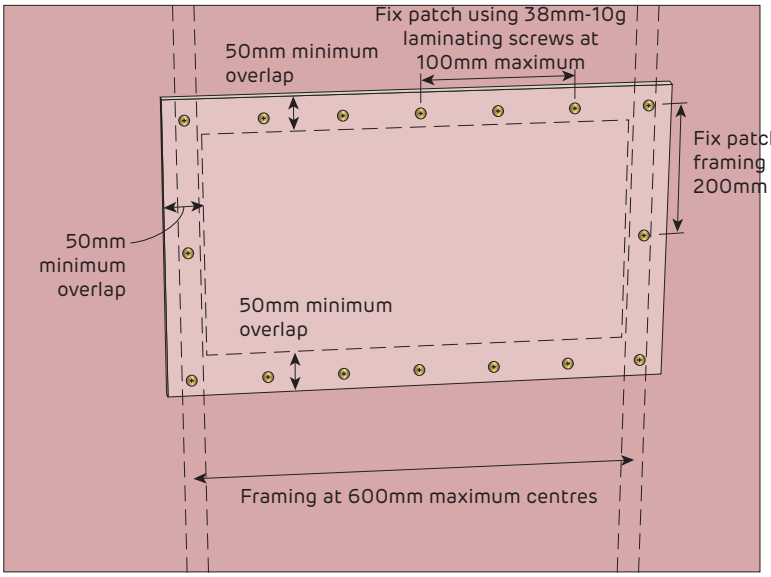
FIGURE 210 Proud patch
Maximum 300x300mm opening

Fire Rated

Proud Patching of Fire Rated Wall Systems - Larger Openings



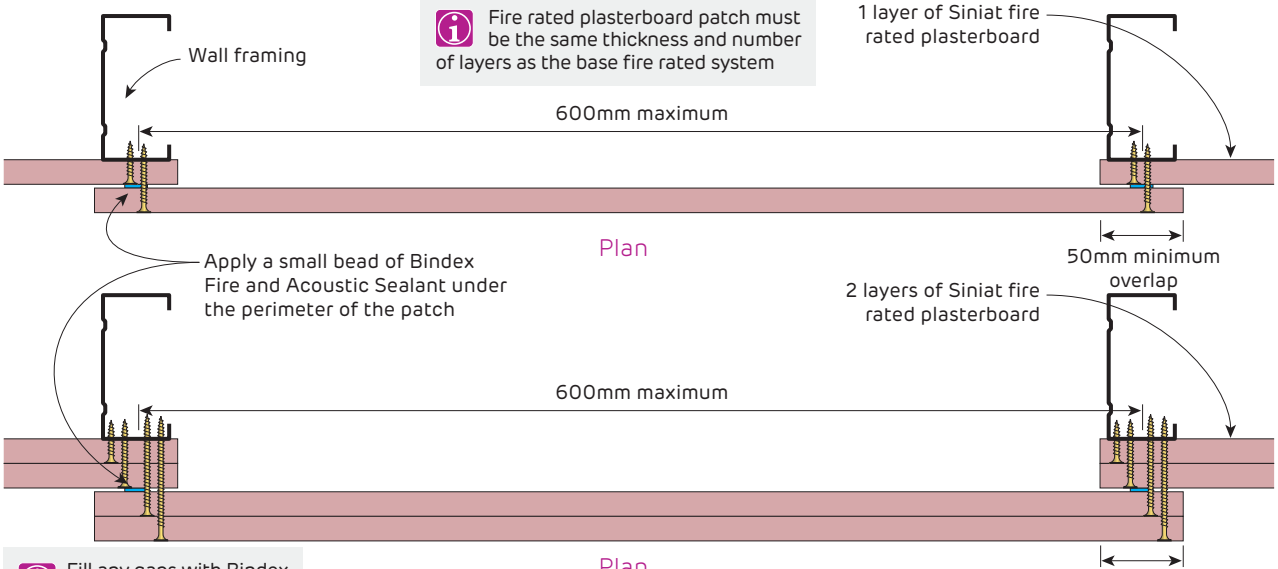
Step 1



Step 2

To repair a fire rated wall with holes larger than 300mm x 300mm and achieve a flush finish; follow the normal installation instructions to re-instate the system.

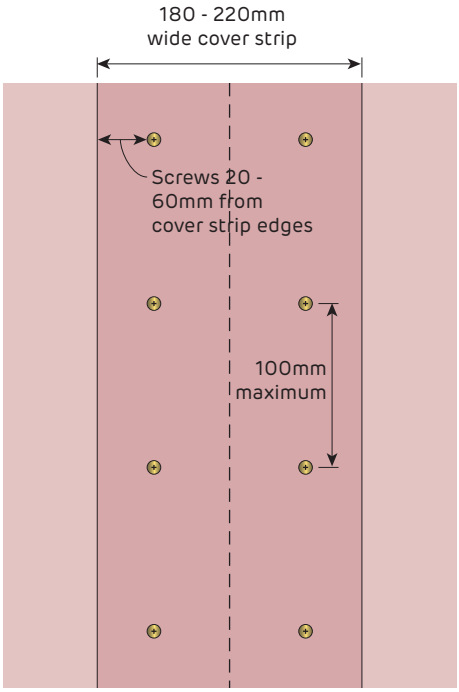
Fire rated plasterboard patch must be the same thickness and number of layers as the base fire rated system



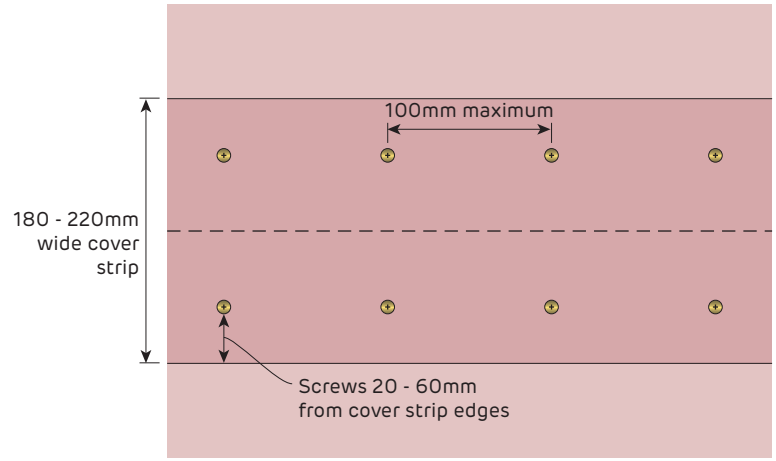
Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

FIGURE 211 Proud patch for larger openings
For openings larger than 300x300mm

Fire Rated
Patching of Fire Rated Wall Systems

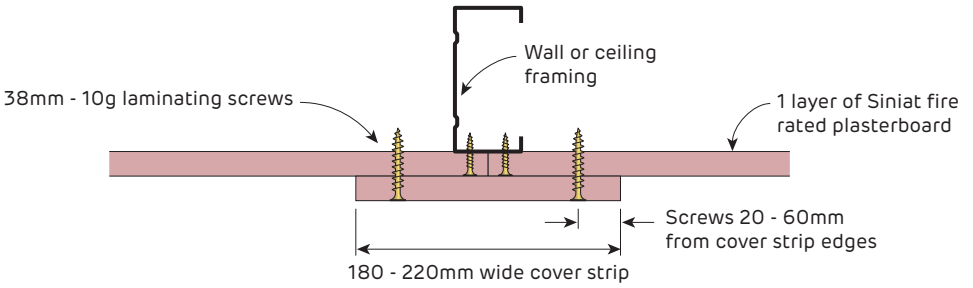


Vertical Joint - Elevation

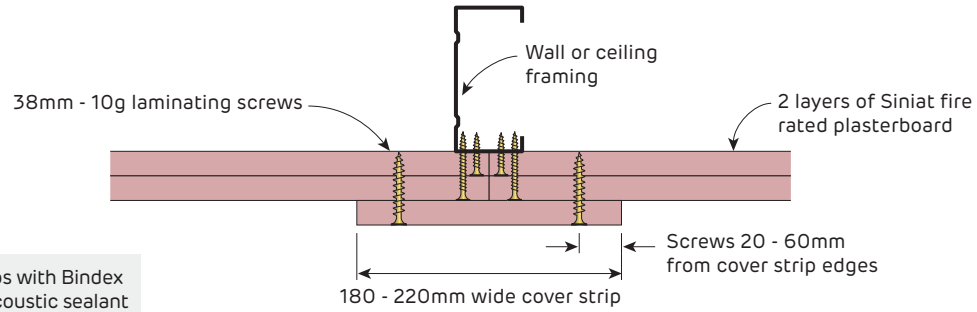


Horizontal Joint - Elevation

Cover strip over a fire rated plasterboard joint can compensate for:
- Joints not staggered in accordance with Siniat Technical Literature
- Use of fibre glass tape
- Incorrect jointing or no jointing material used.



Plan



Plan

Fill any gaps with Bindex Fire and Acoustic sealant to maintain integrity

FIGURE 212 Cover Strip

Non-Fire Rated
Light Duty Fixings to Plasterboard

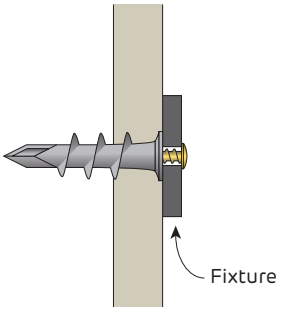


FIGURE 213
Plasterboard Screw
Section

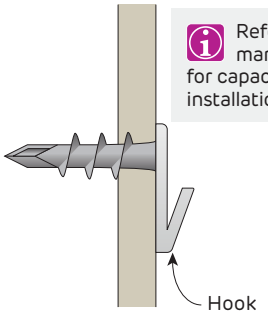


FIGURE 214
Plasterboard Screw
Section

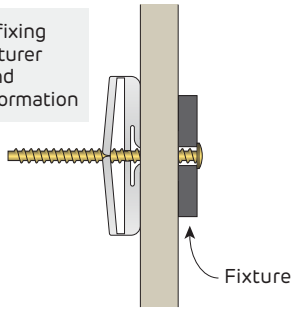


FIGURE 215
Nylon Toggle
Section

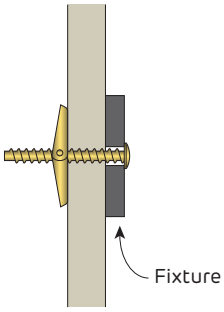


FIGURE 216
Toggle Bolt
Section

Fire Rated or Non-Fire Rated
Light Duty Fixings to Plasterboard

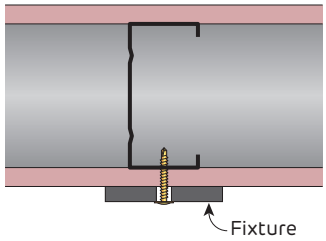


FIGURE 217 Button Head Screw
Suited to 0.5 to 0.75mm BMT framing
Plan

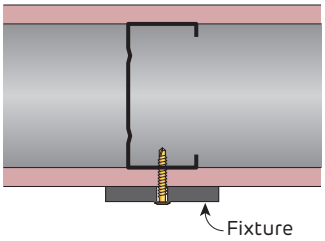


FIGURE 218 Pan Head Screw
Suited to 1.15mm BMT framing
Plan

Medium Duty Fixings to Plasterboard

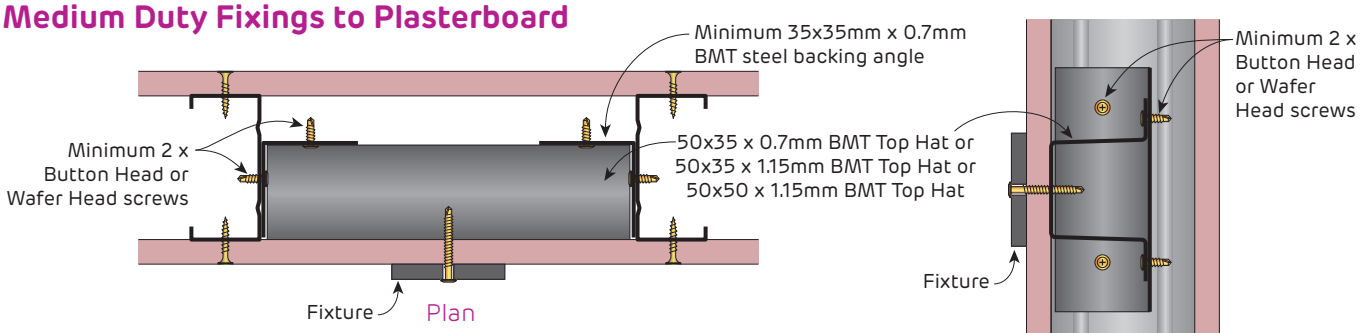


FIGURE 219 Top Hat Nogging

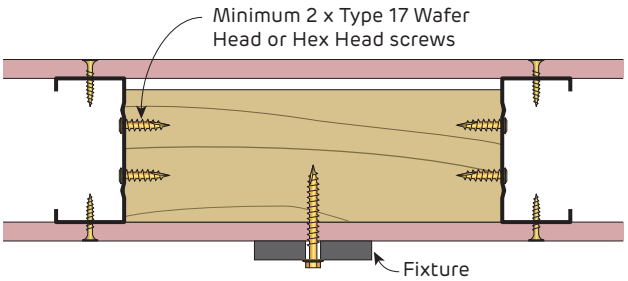


FIGURE 220 Timber Nogging
Plan

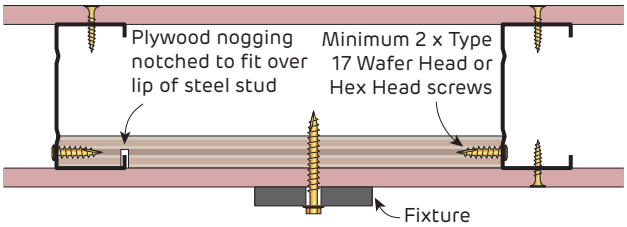


FIGURE 221 Plywood Nogging
Plan

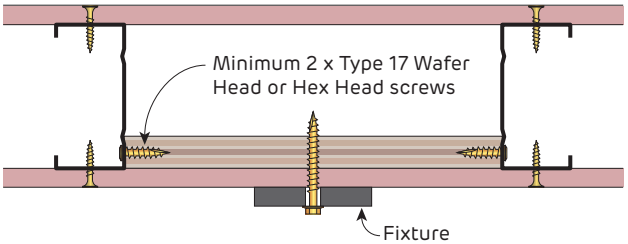


FIGURE 222 Plywood Nogging
Plan

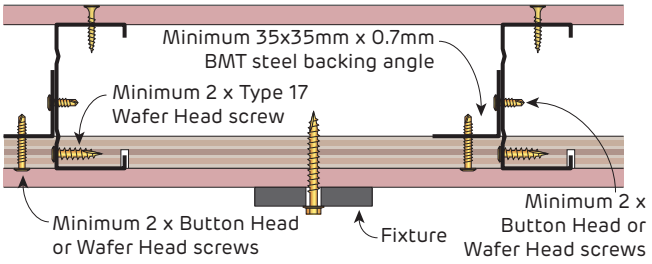


FIGURE 223 Continuous Plywood Nogging
Plan