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3.3 Internal Timber Framed Walls

Internal timber walls are a common form of construction for low rise residential and commercial buildings. Applications range from standard residential walls to home theatres and inter-tenancy separation.

This section contains systems, installation instructions and construction details for general and fire rated internal timber walls.

[For separating wall construction details, refer to Section 3.8]

[For Siniat Interhome systems and installation, refer to the latest Interhome manual on the website]

System Directory



Non-fire Rated Internal Timber Framed Walls

Sucham	Cido 1	Side 2	Frame	501	Acoustics ¹	
System	Side i	Side 2	Frame	FRL	Rw	Rw+Ctr
TSW10	1 x 10mm mastashield	1 x 10mm masta shield	Stud	-	37	28
TSW11	1 x 10mm mastashield	2 x 10mm masta shield	Stud	-	41	33
TSW12	2 x 10mm masta shield	2 x 10mm masta shield	Stud	-	44	36
TSW210	1 x 10mm sound shield	1 x 10mm sound shield	Stud	-	42	31
TSW211	1 x 10mm sound shield	2 x 10mm sound shield	Stud	-	44	37
TSW212	2 x 10mm sound shield	2 x 10mm sound shield	Stud	-	46	39
TSW250	1 x 10mm sound shield	1 x 10mm sound shield	Stud + Resilient Mounts	-	46	35
TSW251	1 x 10mm sound shield	2 x 10mm sound shield	Stud + Resilient Mounts	-	51	41
TSW15	1 x 13mm mastashield	1 x 13mm masta shield	Stud	-	39	30
TSW16	1 x 13mm mastashield	2 x 13mm mastashield	Stud	-	43	34
TSW17	2 x 13mm mastashield	2 x 13mm mastashield	Stud	-	45	39
TSW215	1 x 13mm sound shield	1 x 13mm sound shield	Stud	-	41	33
TSW216	1 x 13mm sound shield	2 x 13mm sound shield	Stud	-	44	39
TSW217	2 x 13mm sound shield	2 x 13mm sound shield	Stud	-	47	42
TSW255	1 x 13mm sound shield	1 x 13mm sound shield	Stud + Resilient Mounts	-	49	41
TSW256	1 x 13mm sound shield	2 x 13mm sound shield	Stud + Resilient Mounts	-	54	46
TSW20	1 x 10mm mastashield	1 x 10mm mastashield	Staggered stud	-	41	33
TSW21	1 x 10mm mastashield	2 x 10mm masta shield	Staggered stud	-	45	36
TSW22	2 x 10mm masta shield	2 x 10mm masta shield	Staggered stud	-	50	41
TSW220	1 x 10mm sound shield	1 x 10mm sound shield	Staggered stud	-	43	34
TSW221	1 x 10mm sound shield	2 x 10mm sound shield	Staggered stud	-	48	40
TSW222	2 x 10mm sound shield	2 x 10mm sound shield	Staggered stud	-	52	46
TSW25	1 x 13mm masta shield	1 x 13mm masta shield	Staggered stud	-	43	37
TSW26	1 x 13mm masta shield	2 x 13mm mastashield	Staggered stud	-	48	40
TSW27	2 x 13mm masta shield	2 x 13mm masta shield	Staggered stud	-	52	45
TSW225	1 x 13mm sound shield	1 x 13mm sound shield	Staggered stud	-	47	40
TSW226	1 x 13mm sound shield	2 x 13mm sound shield	Staggered stud	-	51	45
TSW227	2 x 13mm sound shield	2 x 13mm sound shield	Staggered stud	-	54	50

1. Acoustic values determined using 70mm timber stud and R1.5 glasswool insulation.



Fire Rated Internal Timber Framed Walls

System Side 1		Sido 2	Ecomo		EDI	Acoustics ¹	
System	5106 1	5106 2	Frame			Rw	Rw+Ctr
TSW301	2 x 13mm fire shield	-	Stud	-/30/30	30/30/30	34	31
TSW302	3 x 13mm fire shield	-	Stud	-/90/90	90/90/90	37	35
TSW310	1 x 13mm fire shield	1 x 13mm fire shield	Stud	-/60/60	30/30/30	41	32
TSW311	1 x 13mm fire shield	2 x 13mm fire shield	Stud	-/90/90	30/30/30	44	37
TSW312	2 x 13mm fire shield	2 x 13mm fire shield	Stud	-/120/120	90/90/90	47	41
TSW314	3 x 13mm fire shield	3 x 13mm fire shield	Stud	-/180/180	120/120/120	51	45
TSW350	1 x 13mm fire shield	Resilient Mount and 1 x 13mm fire shield	Stud	-/60/60	30/30/30	47	36
TSW352	2 x 13mm fire shield	Resilient Mount and 2 x 13mm fire shield	Stud	-/120/120	90/90/90	56	47
TSW510	1 x 13mm fire shield	1 x 13mm fire shield + 1 x 6mm Villaboard™	Stud	-/60/60	30/30/30	44	37
TSW512	1 x 13mm fire shield + 1 x 6mm Villaboard™	1 x 13mm fire shield + 1 x 6mm Villaboard™	Stud	-/90/90	60/60/60	47	41
TSW304	2 x 16mm fire shield	-	Stud	-/60/60	60/60/60	35	32
TSW305	3 x 16mm fire shield	-	Stud	-/120/120	120/120/120	38	36
TSW315	1 x 16mm fire shield	1 x 16mm fire shield	Stud	-/90/90	60/60/60	41	33
TSW316	1 x 16mm fire shield	2 x 16mm fire shield	Stud	-/120/120	60/60/60	44	39
TSW317	2 x 16mm fire shield	2 x 16mm fire shield	Stud	-/120/120	120/120/120	47	42
TSW319	3 x 16mm fire shield	3 x 16mm fire shield	Stud	-/240/240	120/120/120	51	46
TSW355	1 x 16mm fire shield	Resilient Mount and 1 x 16mm fire shield	Stud	-/90/90	60/60/60	50	41
TSW357	2 x 16mm fire shield	Resilient Mount and 2 x 16mm fire shield	Stud	-/120/120	120/120/120	57	49
TSW514	1 x 16mm fire shield	1 x 16mm fire shield + 1 x 6mm Villaboard™	Stud	-/90/90	60/60/60	44	38
TSW516	1 x 16mm fire shield + 1 x 6mm Villaboard™	1 x 16mm <mark>fire</mark> shield + 1 x 6mm Villaboard™	Stud	-/120/120	60/60/60	47	42

1. Acoustic values determined using 70mm timber stud and R1.5 glasswool insulation.

Fire Rated Internal Timber Framed Walls

Cushaas	Cido 1	Cide D		EDI		Aco	ustics ^{1,2}
System	Side I	Side 2	Frame		FRL	Rw	Rw+Ctr
TSW330	1 x 13mm fire shield	1 x 13mm fire shield	Double stud	-/60/60	30/30/30	52	42
TSW331	1 x 13mm fire shield	2 x 13mm fire shield	Double stud	-/90/90	30/30/30	57	50*
TSW332	2 x 13mm fire shield	2 x 13mm fire shield	Double stud	-/120/120	90/90/90	62	54
TSW380	1 x 13mm fire shield + 1 x 10mm masta shield	1 x 13mm fire shield + 1 x 10mm masta shield	Double stud	-/90/90	60/60/60	61	52
TSW531	2 x 13mm fire shield	1 x 13mm fire shield + 1 x 6mm Villaboard™	Double stud	-/90/90	30/30/30	61	53
TSW532	1 x 13mm fire shield + 1 x 6mm Villaboard™	1 x 13mm fire shield + 1 x 6mm Villaboard™	Double stud	-/90/90	60/60/60	61	52
TSW335	1 x 16mm fire shield	1 x 16mm fire shield	Double stud	-/90/90	60/60/60	59	50*
TSW336	1 x 16mm fire shield	2 x 16mm fire shield	Double stud	-/120/120	60/60/60	59	51
TSW337	2 x 16mm fire shield	2 x 16mm fire shield	Double stud	-/120/120	120/120/120	64	56
TSW381	1 x 16mm fire shield	1 x 16mm fire shield + 1 x 10mm masta shield	Double stud	-/90/90	60/60/60	58	50*
TSW382	1 x 16mm fire shield + 1 x 10mm masta shield	1 x 16mm fire shield + 1 x 10mm masta shield	Double stud	-/120/120	60/60/60	59	51
TSW534	1 x 16mm fire shield	1 x 16mm fire shield + 1 x 6mm Villaboard™	Double stud	-/90/90	60/60/60	59	51*
TSW535	2 x 16mm fire shield	1 x 16mm <mark>fire</mark> shield + 1 x 6mm Villaboard™	Double stud	-/120/120	60/60/60	63	55
TSW536	1 x 16mm fire shield + 1 x 6mm Villaboard™	1 x 16mm fire shield + 1 x 6mm Villaboard™	Double stud	-/120/120	60/60/60	62	54
TSW320	1 x 13mm fire shield	1 x 13mm fire shield	Staggered stud	-/60/60	30/30/30	46	40
TSW321	1 x 13mm fire shield	2 x 13mm fire shield	Staggered stud	-/90/90	30/30/30	51	45
TSW322	2 x 13mm fire shield	2 x 13mm fire shield	Staggered stud	-/120/120	90/90/90	54	50
TSW520	1 x 13mm fire shield	1 x 13mm fire shield + 1 x 6mm Villaboard™	Staggered stud	-/60/60	30/30/30	51	45
TSW522	1 x 13mm fire shield + 1 x 6mm Villaboard™	1 x 13mm fire shield + 1 x 6mm Villaboard™	Staggered stud	-/90/90	60/60/60	54	50
TSW325	1 x 16mm fire shield	1 x 16mm fire shield	Staggered stud	-/90/90	60/60/60	47	42
TSW326	1 x 16mm fire shield	2 x 16mm fire shield	Staggered stud	-/120/120	60/60/60	52	47
TSW327	2 x 16mm fire shield	2 x 16mm fire shield	Staggered stud	-/120/120	120/120/120	55	51
TSW524	1 x 16mm fire shield	1 x 16mm fire shield + 1 x 6mm Villaboard™	Staggered stud	-/90/90	60/60/60	51	46
TSW526	1 x 16mm fire shield + 1 x 6mm Villaboard™	1 x 16mm fire shield + 1 x 6mm Villaboard™	Staggered stud	-/120/120	60/60/60	54	50

Double stud acoustic values determined using 160mm cavity with glasswool insulation.
 Staggered stud acoustic values determined using 120mm cavity with glasswool insulation.
 * using 200mm frame cavity

TSW10	 1 layer of 	10mm <mark>masta</mark>	ishield or 10m	ım water shie	eld		
	• Timber st	ud framing a	t maximum 6	00mm centr	es		
	• 1 layer of	10mm masta	ishield or 10m	ım water shie	eld.		
	Stud Depth	Wall Width	Sound Insulat	ion			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Depart
	70	90	33 (25)	37 (28)	-	37 (28)	Day Design
	90	110	34 (25)	38 (28)	39 (30)	39 (28)	
TSW11	• 1 layer of	10mm masta	shield or 10m	nm water shie	eld		
	• 2 layers o	of 10mm mast	ashield or 10	mm water sh	ield		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
	70	100	37 (30)	41 (33)	-	41 (33)	Day Design 3094-45
	90	120	38 (30)	42 (33)	43 (34)	42 (33)	
	• 2 layers o	of 10mm mast	ashield or 10	mm water sh	ield		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	
	70	110	41 (33)	44 (36)	-	44 (36)	Day Design
	90	130	41 (33)	45 (37)	47 (38)	45 (37)	5094-45
TSW210	 1 layer of Timber st 1 layer of 	10mm sound ud framing a 10mm sound	lshield or 10m t maximum 6 Ishield or 10m	nm opal OOmm centr nm opal	es		
	Stud Depth	Wall Width	Sound Insulat	ion			
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr) No insulation	i on Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	
	Stud Depth (mm) 70	Wall Width (mm) 90	Sound Insulat Rw (Rw + Ctr) No insulation 34 (27)	ion Pink [®] Batts Wall R1.5 42 (31)	Pink [®] Batts Wall R2.0 -	Polyester R1.5 41 (41)	Report Day Design

• 1 layer of 10mm mastashield or 10mm watershield

	. 1	10	labiald as 10s						
TSW211	• I layer of	10mm sound	shield or 10n	ות סףפו סספיי איז איז איז					
	• Timber st	ud framing a	it maximum 6	UUmm centr	es				
	• 2 layers of 10mm soundshield or 10mm opal								
	Stud Depth	Wall Width	Sound Insula	tion					
	(mm)	(mm)	Rw (Rw + Ctr)	-		1		
			No	Pink [®] Batts	Pink [®] Batts	Polyester			
					VV811 K2.0	City.	Report		
	70	100	39 (32)	44 (35)	-	44 (35)	Day Design		
							3094-45		
	90	120	40 (32)	44 (37)	45 (38)	44 (37)			
	·			·					
TSW212	• 2 layers o	f 10mm sour	ndshield or 10	mm <mark>opal</mark>					
	• Timber st	ud framing a	it maximum 6	00mm centr	es				
	 2 layers o 	f 10mm <mark>sour</mark>	ndshield or 10	mm <mark>opal</mark>					
	Stud Depth	Wall Width	Sound Insula	tion					
	(mm)	(mm)	Rw (Rw + Ctr)					
			No	Pink [®] Batts	Pink [®] Batts	Polyester			
			Insulation	VVall R1.5	VVall R2.0	RI.5	Report		
	70	110	42 (35)	46 (39)	-	46 (39)	Day Design		
							3094-45		
	90	110	43 (36)	47 (40)	48 (41)	47 (40)			
TSW250	 1 layer of 	10mm sound	shield or 10n	nm <mark>opal</mark>					
~	 Timber st 	ud framing a	it maximum 6	00mm centr	es				
	Resilient	Mounts and	minimum 18n	nm Furring C	hannel				
	 1 layer of 	10mm sound	shield or 10n	nm opal					
N	Stud Depth	Wall Width	Sound Insula	ion					
	(mm)	(mm)	Rw (Rw + Ctr)			1		
			No	Pink [®] Batts Wall R1 5	Pink [®] Batts	Polyester R1 5	Report		
					Wall 1(2.0	City	Day Design 3094-45		
	70	127	37 (29)	46 (35)	47 (36)	46 (35)	Note		
			70 (00)		40 (77)	47 (7 5)	Impact		
	90	147	38 (29)	47 (37)	48 (37)	47 (36)	Resistant		
	4	10							
TSW251	• 1 layer of	10mm sound	shield or 10n	nm <mark>opal</mark>					
	• Timber st	ud framing a	it maximum 6	00mm centr	es				
	 Resilient 	Mounts and	minimum 18n	nm Furring C	hannel				
	 2 layers o 	f 10mm <mark>sour</mark>	ndshield or 10	mm <mark>opal</mark>					

Stud Depth (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)						
		No	Pink [®] Batts	Pink [®] Batts	Polyester	Report		
		insulation	Wall R1.5	Wall R2.0	R1.5	Day Dosigo		
70	137	42 (33)	51 (41)	53 (42)	51 (40)	3094-45 Note:		
90	157	42 (34)	52 (42)	53 (43)	52 (42)	lmpact Sound Resistant		

TSW15

	• 1 layer of	13mm <mark>masta</mark>	ishield or 13m	ı m water shie	Id		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	ion			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Peport
	70	96	34 (27)	39 (30)	-	39 (30)	Day Design
	90	116	35 (27)	39 (31)	40 (32)	39 (31)	5054-45
TSW16	• 1 layer of	13mm masta	ishield or 13m	m water shie	ld		
	• 2 layers c	of 13mm mast	ashield or 13	mm water shi	eld		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	ion)			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Deport
	70	109	39 (31)	43 (34)	-	43 (34)	Day Design
	90	129	39 (32)	43 (36)	44 (37)	43 (36)	3094-45
	• 2 layers c	Wall Width	Sound Insulat	ion	eio		
	(mm)	(mm)	Rw (Rw + Ctr)) Dial/ [®] Datta	Diale [®] Datta	Delvester	1
			insulation	Wall R1.5	Wall R2.0	R1.5	Report
	70	122	42 (35)	46 (39)	-	46 (39)	Day Design 3094-45
	90	142	43 (36)	47 (40)	48 (41)	47 (40)	
TSW215	• 1 layer of	13mm sound	lshield t maximum 6	00mm centr	05		
	• 1 layer of	13mm sound	lshield				
	 1 layer of Stud Depth (mm) 	Wall Width	Sound Insulat Rw (Rw + Ctr	cion			
	• 1 layer of Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr) No insulation	ion) Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
	 Thirder st 1 layer of Stud Depth (mm) 70 	Wall Width (mm) 96	Sound Insulat Rw (Rw + Ctr) No insulation 37 (30)	ion Pink [®] Batts Wall R1.5 41 (33)	Pink [®] Batts Wall R2.0	Polyester R1.5 41 (33)	Report Day Design

• 1 layer of 13mm mastashield or 13mm watershield

• Timber stud framing at maximum 600mm centres

TSW216	• 1 layer of	1 layer of 13mm soundshield							
	 1 imber st 2 layers o 	ud framing a f 13mm soun	t maximum 6 I d shield	UUmm centr	es				
	Stud Depth (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)						
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5			
	70	109	42 (34)	44 (39)	-	44 (39)	Report Day Design		
	90	129	42 (35)	45 (40)	46 (41)	45 (39)	3094-45		
TSW217	• 2 layers o	f 13mm <mark>soun</mark>	d shield						
	• Timber st	ud framing a	t maximum 6	00mm centr	es				

• 2 layers of 13mm **sound**shield



Stud Depth	Wall Width	Sound Insulation Rw (Rw + Ctr)							
(mm)	(mm)		Diok [®] Batts	Diok [®] Batts	Polyester				
		insulation	Wall R1.5	Wall R2.0	R1.5				
70	122	45 (39)	47 (42)	-	47 (42)	Report Day Design			
90	142	46 (39)	47 (43)	48 (44)	47 (43)	3094-45			

TSW255

• 1 layer of 13mm **sound**shield

- Timber stud framing at maximum 600mm centres
- Resilient Mounts and minimum 18mm Furring Channel
- 1 layer of 13mm soundshield



Stud Depth (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)								
		No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report				
70	133	41 (32)	49 (41)	51 (42)	49 (40)	Day Design 3094-45				
90	153	42 (33)	50 (42)	51 (43)	50 (42)	Sound Resistant				

TSW256

- 1 layer of 13mm **sound**shield
- Timber stud framing at maximum 600mm centres
- Resilient Mounts and minimum 18mm Furring Channel
- 2 layers of 13mm **sound**shield

Stud Depth (mm)	Wall Width (mm)	Sound Insulation Rw (Rw + Ctr)								
		No	Pink [®] Batts	Pink [®] Batts	Polyester	Report				
		insulation	Wall R1.5	Wall R2.0	R1.5	Repore				
70	146	46 (37)	54 (46)	55 (47)	54 (46)	Day Design 3094-45				
90	166	47 (38)	54 (47)	56 (48)	54 (47)	Sound Resistant				

TSW20	 1 layer of 7 Staggered 1 layer of 7 	10mm masta I timber stuc 10mm masta	oshield or 10n Is at maximur Ishield or 10n	nm water shie m 600mm ce nm water shie	eld ntres (300m eld	m staggered)
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	tion)			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
	70 on 90mm plate	110	34 (27)	41 (33)	42 (34)	40 (32)	Day Design 3094-45
	90 on 120mm plate	140	35 (29)	42 (33)	43 (34)	42 (32)	Sound Resistant
	• 1 loves of t		chield or 10 m	mustashis	Jd		
TSW21					elu etcec (700m)	m staggorod	、
	• Staggered		is at maximum	ii ooomm ce	incres (SOOM	in staggered)
	 2 layers of 	TIUMM Mas	ashield of 10	imm watersh	1610		

Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
		No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
70 on 90mm plate	120	38 (33)	45 (36)	47 (37)	45 (36)	Day Design 3094-45
90 on 120mm plate	150	38 (33)	47 (38)	48 (39)	47 (38)	Sound Resistant

Pink[®] Batts

Wall R1.5

Pink[®] Batts

Wall R2.0

Polyester

R1.5

Report

Day Design 3094-45

Note: Impact Sound

Resistant

TSW22

• 2 layers of 10mm mastashield or 10mm watershield

• Staggered timber studs at maximum 600mm centres (300mm staggered)

• 2 layers of 10mm mastashield or 10mm watershield



70 on 90mm plate	130	41 (35)	50 (41)	52 (45)	50 (41)
90 on 120mm plate	160	42 (36)	51 (44)	53 (45)	51 (43)

Sound Insulation Rw (Rw + Ctr)

No

insulation

TSW220

• 1 layer of 10mm **sound**shield or 10mm **opal**

Wall Width

(mm)

Stud Depth

(mm)

• Staggered timber studs at maximum 600mm centres (300mm staggered)

• 1 layer of 10mm **sound**shield or 10mm **opal**



Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
		No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
70 on 90mm plate	110	36 (29)	43 (34)	45 (36)	43 (34)	Day Design 3094-45
90 on 120mm plate	140	37 (32)	45 (37)	46 (38)	44 (37)	Sound Resistant

120mm plate

Report Day Design 3094-45

Note: Impact Sound

Resistant

							_
TSW221	 1 layer of ' 	10mm <mark>sound</mark>	<mark>shield</mark> or 10m	nm opal			
	 Staggered 2 layers of 	l timber stud f 10mm soun	s at maximur <mark>d</mark> shield or 10	n 600mm ce mm <mark>opal</mark>	ntres (300m	m staggered)	1
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	
	70 on 90mm plate	120	40 (36)	48 (40)	50 (41)	48 (40)	
	90 on	150	41 (36)	49 (42)	51 (43)	49 (42)	

TSW222

• 2 layers of 10mm **sound**shield or 10mm **opal**

• 2 layers of 10mm **sound**shield or 10mm **opal**



Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
		No	Pink [®] Batts	Pink [®] Batts	Polyester	Report
70 on 90mm plate	130	44 (38)	52 (46)	54 (47)	52 (45)	Day Design 3094-45
90 on 120mm plate	160	45 (39)	53 (47)	54 (49)	53 (47)	Sound Resistant

Pink[®] Batts

Wall R1.5

43 (37)

45 (37)

Pink[®] Batts

Wall R2.0

45 (36)

46 (38)

Polyester

R1.5

40 (34)

44 (36)

Report

Day Design 3094-45

Note: Impact

Sound

Resistant

TSW25

• 1 layer of 13mm mastashield or 13mm watershield

• Staggered timber studs at maximum 600mm centres (300mm staggered)

Sound Insulation

Rw (Rw + Ctr)

No

insulation

36 (29)

37 (32)

• Staggered timber studs at maximum 600mm centres (300mm staggered)

• 1 layer of 13mm mastashield or 13mm watershield

Wall Width

116

146

(mm)

70 on

90 on

4 (

- 1 layer of 13mm mastashield or 13mm watershield
- Staggered timber studs at maximum 600mm centres (300mm staggered)
- 2 layers of 13mm mastashield or 13mm watershield



TSW26

Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion			
		No	Pink [®] Batts	Pink [®] Batts	Polyester	Report
		insulation	Wall R1.5	Wall R2.0	R1.5	
70 on 90mm plate	129	40 (35)	48 (40)	50 (41)	48 (40)	Day Design 3094-45
90 on I20mm plate	159	41 (35)	49 (42)	51 (43)	49 (42)	Sound Resistant

Stud Depth (mm) 90mm plate 120mm plate

		-					
TSW27	 2 layers of 	f 13mm <mark>mast</mark>	ashield or 13.	mm water shi	eld		
~	 Staggered 	l timber stuc	ls at maximur	m 600mm ce	ntres (300m	m staggered)
	 2 layers of 	f 13mm <mark>mast</mark>	ashield or 13.	mm water shi	eld		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
	70 on 90mm plate	142	44 (38)	52 (45)	54 (47)	52 (45)	Day Design 3094-45
	90 on 120mm plate	172	45 (39)	53 (47)	54 (49)	53 (47)	Note: Impact Sound Resistant
		17					
TSW225	• I layer or	ISMM Sound	snield	6 0 0	. (7.0.0		、
	 Staggered 	timber stuc	is at maximur	n 600mm ce	ntres (300m	m staggered)
	• 1 layer of '	13mm <mark>sound</mark>	shield				

Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
		No	Pink [®] Batts	Pink [®] Batts	Polyester	Report
		insulation	Wall R1.5	Wall R2.0	R1.5	Report
70 on 90mm plate	116	39 (32)	47 (40)	48 (41)	46 (40)	Day Design 3094-45
90 on 120mm plate	146	41 (35)	47 (42)	49 (43)	47 (42)	Sound Resistant

TSW226

• 1 layer of 13mm **sound**shield

• Staggered timber studs at maximum 600mm centres (300mm staggered)

Pink[®] Batts

Wall R1.5

51 (45)

52 (47)

Pink[®] Batts

Wall R2.0

52 (47)

53 (48)

Polyester

R1.5

51 (45)

51 (47)

Report

Day Design 3094-45

Note: Impact

Sound

Resistant

Sound Insulation

Rw (Rw + Ctr)

No

insulation

44 (39)

45 (39)

• 2 layers of 13mm **sound**shield

Wall Width

129

159

(mm)

Stud Depth

70 on

90mm plate

90 on

120mm plate

(mm)

• 2 layers of 13mm **sound**shield

• Staggered timber studs at maximum 600mm centres (300mm staggered)

• 2 layers of 13mm **sound**shield



Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)			
		No insulation	Pink [®] Batts Wall R1.5	Pink [®] Batts Wall R2.0	Polyester R1.5	Report
70 on 90mm plate	142	48 (42)	54 (50)	55 (51)	54 (50)	Day Design 3094-45
90 on 120mm plate	172	50 (43)	55 (51)	56 (52)	55 (51)	Sound Resistant

TOWZOA	Timber st	ud framino a	t maximum 6	00mm centr	es					
150001	• 2 layers o	f 13mm <mark>fire</mark> s	hield			F	ire Resistance	Level		
						./: rated	30/30 and 30/ I from the lined	/30/30 d side only		
							Reports	,		
	fireshield ca	an be substitu	ted with mult i	shield or tru r	ock		FAR 3348			
	Stud Depth	Wall Width	Sound Insulat	ion						
				, N	lo					
	70	0.5		INSU				Report		
	70	96		54	(31)			Day Design 3094-45		
	90	116		34	(31)					
TSW302	• Timber st	ud framing a	t maximum 6	00mm centr	es					
13002	• 3 layers o	f 13mm <mark>fire</mark> s	hield			F	ire Resistance	Level		
						-/ 9 rated	90/90 and 90/ I from the lined	/90/90 d side only		
							Reports	·		
	fireshield ca	n be substitu	ted with mult	shield or tru r	ock		FAR 3348			
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)						
				N	lo ation					
	70	109		37 ((35)			Report		
								Day Design 3094-45		
	90	129		37 ((35)					
TSW310	• 1 layer of	13mm fire sh	ield			F	ire Resistance	level		
	Timber st	• Timber stud framing at maximum 600mm centres					-/60/60 and 30/30/30			
	 1 layer of 13mm fireshield 					-/(60/60 and 30/	rated from both sides		
	• Hayer of	13mm fire sh	ield			-/(r:	60/60 and 30/ ated from both	sides		
	• Hayer of	13mm <mark>fire</mark> sh	ield			-/(ra	60/60 and 30/ ated from both Reports FAR 3348	sides		
	fireshield ca	13mm firesh an be substitu	ield ted with mult i	shield or tru r	ock	-/(r:	60/60 and 30/ ated from both Reports FAR 3348	n sides		
	fireshield ca Stud Depth (mm)	13mm firesh an be substitu Wall Width (mm)	ield ted with mult Sound Insulat Rw (Rw + Ctr)	shield or tru r	ock	-/(r	60/60 and 30/ ated from both Reports FAR 3348	n sides		
	fireshield ca Stud Depth (mm)	13mm firesh an be substitu Wall Width (mm)	ield ted with mult i Sound Insulat Rw (Rw + Ctr) No insulation	shield or tru r ion Pink [®] Batts Wall R1.5	ock Pink [®] Wall	-/(ra Batts R2.0	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5	a sides		
	fireshield ca Stud Depth (mm)	13mm firesh an be substitu Wall Width (mm) 96	ield Sound Insulat Rw (Rw + Ctr) No insulation 36 (38)	shield or trun ion Pink [®] Batts Wall R1.5 41 (32)	ock Pink [®] Wall	-/(ri Batts R2.0	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32)	Report		
	<pre>fireshield ca Stud Depth (mm) 70 90</pre>	13mm firesh an be substitu Wall Width (mm) 96 116	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29)	shield or trun ion Pink [®] Batts Wall R1.5 41 (32) 41 (33)	Pink [®] Wall	-/(R Batts R2.0 34)	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33)	Report Day Design 3094-45		
	<pre>fireshield ca Stud Depth (mm) 70 90</pre>	13mm firesh an be substitu Wall Width (mm) 96 116	ield Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29)	shield or trun ion Pink [®] Batts Wall R1.5 41 (32) 41 (33)	Pink [®] Wall - 42 (-// ra Batts R2.0 34)	60/60 and 30/ ated from both FAR 3348 Polyester R1.5 41 (32) 41 (33)	Report Day Design 3094-45		
TSW311	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6	shield or tru r ion Pink [®] Batts Wall R1.5 41 (32) 41 (33)	Pink [®] Wall 42 (-// r/ Batts R2.0 34)	60/60 and 30/ ated from both FAR 3348 Polyester R1.5 41 (32) 41 (33)	Report Day Design 3094-45		
TSW311	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield	Pink [®] Batts Wall R1.5 41 (32) 41 (33)	Pink [®] Wall 42 (es	-/(ra Batts R2.0 34) F -/(60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/	Report Day Design 3094-45		
TSW311	 Trayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield	Shield or trun Fink® Batts Wall R1.5 41 (32) 41 (33)	Pink [®] Wall 42 (es	-// ra Batts R2.0 34) F	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both	Report Day Design 3094-45		
TSW311	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers o fireshield ca 	13mm fire sh an be substitu Wall Width (mm) 96 116 13mm fire sh ud framing a f 13mm fire s	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield ted with multi	shield or trun Pink [®] Batts Wall R1.5 41 (32) 41 (33) 00mm centr	Pink [®] Wall 42 (es	-// ra Batts R2.0 34) F	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both Reports FAR 3348	Report Day Design 3094-45		
	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of fireshield ca Stud Depth 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires an be substitu Wall Width	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield ted with multi Sound Insulat	shield or trun Pink [®] Batts Wall R1.5 41 (32) 41 (33) 00mm centr	Pink [®] Wall 42 (es	-// ra Batts R2.0 34)	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both Reports FAR 3348	Report Day Design 3094-45		
	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of fireshield ca Stud Depth (mm) 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires an be substitu Wall Width (mm)	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield ted with multi Sound Insulat Rw (Rw + Ctr) No	shield or trun ion Pink [®] Batts Wall R1.5 41 (32) 41 (33) 00mm centr shield or trun ion Pink [®] Batts	Pink [®] Wall 42 (es ock	-/(ra Batts R2.0 34) F -/!	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both Reports FAR 3348	Report Day Design 3094-45		
	 Flayer of fireshield cases Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of fireshield cases Stud Depth (mm) 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires an be substitu Wall Width (mm)	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation	shield or trun ion Pink [®] Batts Wall R1.5 41 (32) 41 (33) 00mm centr shield or trun ion Pink [®] Batts Wall R1.5	Pink [®] Wall 42 (es ock	-/(ra Batts R2.0 34) F -/(ra Batts R2.0	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both Reports FAR 3348 Polyester R1.5	Report Day Design 3094-45 Level (30/30 n sides		
	 Flayer of fireshield ca Stud Depth (mm) 70 90 1 layer of Timber st 2 layers of fireshield ca Stud Depth (mm) 70 	13mm firesh an be substitu Wall Width (mm) 96 116 13mm firesh ud framing a f 13mm fires an be substitu Wall Width (mm) 109	ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 36 (38) 37 (29) ield t maximum 6 hield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 40 (34)	shield or trun ion Pink [®] Batts Wall R1.5 41 (32) 41 (33) 00mm centr shield or trun ion Pink [®] Batts Wall R1.5 44 (37)	ock Pink [®] Wall 42 (es ock Pink [®] Wall	-// ra Batts R2.0 34) F -/9 ra Batts R2.0	60/60 and 30/ ated from both Reports FAR 3348 Polyester R1.5 41 (32) 41 (33) Fire Resistance 90/90 and 30/ ated from both Reports FAR 3348 Polyester R1.5 44 (37)	Report Day Design 3094-45		

TSW312	• 2 layers of 13mm fire shield									
	• Timber st	ud framing a	t maximum 6	00mm centre	es	F	ire Resistance	e Level		
	 2 layers of 	f 13mm <mark>fire</mark> s	hield			-/12	20/120 and 90)/90/90		
						10		1 51085		
							Reports FAR 3348			
	fireshield ca	n be substitu	ted with multi	shield or tru ro	ock					
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)						
			No	Pink [®] Batts	Pink®	Batts	Polyester			
			Insulation	Wall R1.5	vvali	R2.0	R1.5	Report		
	70	122	44 (37)	47 (41)	-		47 (41)	Day Design		
	90	142	45 (38)	47 (42)	48 (43)	47 (42)	3094-45		
						,				
TSW314	• 3 layers o	f 13mm <mark>fire</mark> s	hield							
1000514	 Timber st 	ud framing a	t maximum 6	00mm centre	es	F	ire Resistance	e Level		
	• 3 layers of	f 13mm <mark>fire</mark> s	hield			-/18	0/180 and 120	/120/120		
						I		1 SIDES		
							Reports FAR 3348			
	fireshield ca	n be substitu	ted with multi	shield or tru re	ock					
	(mm)	(mm)	Rw (Rw + Ctr)	.ion)						
			No	Pink [®] Batts	Pink [®]	Batts	Polyester			
	70	140			VVall	R2.0		Report		
	70	148	49 (42)	51 (45)	-	51 (46)		Day Design		
	90	168	50 (43)	51 (47)	52 (48)	51 (47)	5094-50		
								·		
TSW350	• 1 layer of	13mm fire sh	ield			F	ire Resistance	e Level		
TSW350	 1 layer of Timber still 	13mm fire sh ud framing a	ield t maximum 6	00mm centro	es	F	ire Resistance	e Level		
TSW350	 1 layer of Timber sti Resilient I Channel 	13mm <mark>fire</mark> sh ud framing a Nounts and i	ield t maximum 6 minimum 18n	00mm centro nm Furring	es	F -/(ire Resistance 50/60 and 30, ated from both	: Level /30/30 h sides		
TSW350	 1 layer of Timber str Resilient I Channel 1 layer of 	13mm fire sh ud framing a Nounts and 1 13mm fire sh	ield t maximum 6 minimum 18n ield	00mm centro nm Furring	es	F -/(ire Resistance 50/60 and 30, ated from both Reports	• Level /30/30 h sides		
TSW350	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of 	13mm fire sh ud framing a Mounts and 1 13mm fire sh n be substitu	ield t maximum 6 minimum 18n ield ted with mult i	00mm centro nm Furring shield or tru ro	es	F -/(ra	ire Resistance 50/60 and 30, ated from both Reports FAR 3348	• Level /30/30 h sides		
TSW350	 1 layer of Timber str Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth 	13mm fire sh ud framing a Nounts and 13mm fire sh n be substitu Wall Width	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat	00mm centro nm Furring shield or tru ro :ion	es	F -/(ra	ire Resistance 50/60 and 30, ated from both Reports FAR 3348	2 Level /30/30 n sides		
TSW350	 1 layer of Timber sti Resilient I Channel 1 layer of fireshield ca Stud Depth (mm) 	13mm fire sh ud framing a Mounts and 13mm fire sh n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr)	00mm centro nm Furring shield or tru ro :ion	es ock	F -/(ra	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polvester	e Level /30/30 h sides		
TSW350	 1 layer of Timber str Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 	13mm fire sh ud framing a Nounts and 13mm fire sh n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation	OOmm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5	es ock Pink [®] Wall	F -/(ra Batts R2.0	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5	E Level /30/30 n sides Report		
TSW350	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 	13mm fire sh ud framing a Mounts and i 13mm fire sh n be substitu Wall Width (mm) 133	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29)	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36)	es ock Pink [®] Wall 47 (F -/(ra Batts R2.0 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36)	Report Day Design 3094-50		
TSW350	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29)	OOmm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36)	es ock Pink [®] Wall 47 (F -/(R Batts R2.0 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36)	Report Day Design 3094-50 Note: Impact Sound		
TSW350	 1 layer of Timber str Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 	13mm firesh ud framing a Mounts and 13mm firesh n be substitu Wall Width (mm) 133 153	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31)	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36)	es Pink [®] Wall 47 (48 (F -/(R Batts R2.0 36) 36)	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36)	Report Day Design 3094-50 Note: Impact Sound Resistant		
	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers of 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133 153	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36)	es ock Wall 47 (48 (F -/(ra Batts R2.0 36) 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36) 47 (36)	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers of Timber sti 	13mm fire sh ud framing a Mounts and i 13mm fire sh n be substitu Wall Width (mm) 133 153 f 13mm fire s ud framing a	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro	es Pink [®] Wall 47 (48 (F -/(R Batts R2.0 36) 36)	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36) ire Resistance	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350	 1 layer of Timber sti Resilient <i>l</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers of Timber sti Resilient <i>l</i> 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring	es Pink [®] Wall 47 (48 (F -/(ra Batts R2.0 36) 36) 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36) 47 (36) ire Resistance 20/120 and 90	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350	 1 layer of Timber sti Resilient / Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers of Timber sti Resilient / Channel 	13mm firesh ud framing a Mounts and i 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Mounts and i	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring	es Pink [®] Wall 47 (48 (es	F -/(R Batts R2.0 36) 36) 36) F -/12	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36) ire Resistance 20/120 and 90 ated from both	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350 Image: state stat	 1 layer of Timber sti Resilient <i>l</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers or Timber sti Resilient <i>l</i> Channel 2 layers or 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and fi	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring	es Dock Wall 47 (48 (F -/(ra Batts R2.0 36) 36) 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350 File and the second seco	 1 layer of Timber sti Resilient <i>l</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers or Timber sti Resilient <i>l</i> Channel 2 layers or fireshield ca 	13mm fire sh ud framing a Mounts and i 13mm fire sh n be substitu Wall Width (mm) 133 153 f 13mm fire s ud framing a Mounts and i f 13mm fire s	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m hield ted with multi	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring	es Pink [®] Wall 47 (48 (es	F -/(R Batts R2.0 36) 36) 36) 736)	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348	e Level /30/30 h sides Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350 File and the second seco	 1 layer of Timber sti Resilient / Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers or Timber sti Resilient / Channel 2 layers or fireshield ca Stud Depth (mm) 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and fi f 13mm fires n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m hield ted with multi Sound Insulat Rw (Rw + Ctr)	00mm centro nm Furring Shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring Shield or tru ro	es Pink [®] Wall 47 (48 (es	F -/(ra Batts R2.0 36) 36) 36)	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36) 47 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348	Report Day Design 3094-50 Note: Impact Sound Resistant		
TSW350 Image: state	 1 layer of Timber sti Resilient / Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers or Timber sti Resilient / Channel 2 layers or fireshield ca Stud Depth (mm) 	13mm firesh ud framing a Nounts and i 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and i f 13mm fires n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m hield ted with multi Sound Insulat Rw (Rw + Ctr) No	00mm centro nm Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring shield or tru ro ion Pink [®] Batts	es Pink [®] Wall 47 (48 (es ock	F -/(73 Batts R2.0 36) (36) (36) F -/12 73 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348	E Level (30/30 a sides Report Day Design 3094-50 Note: Impact Sound Resistant E Level D/90/90 a sides Report		
TSW350 Image: state	 1 layer of Timber sti Resilient <i>I</i> Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber sti Resilient <i>I</i> Channel 2 layers o fireshield ca Stud Depth (mm) 	13mm firesh ud framing a Nounts and 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and fi f 13mm fires n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 37 (29) 38 (31) hield t maximum 6 minimum 18m hield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation	00mm centro nm Furring Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro nm Furring shield or trun shield or trun	es Pink [®] Wall 47 (48 (es Pink [®] Wall	F -/(72 Batts R2.0 36) 36) 36) 36) 57 712 72 72 72 72 72 72 72 72 72 72 72 72 72	ire Resistance 50/60 and 30, ated from both Reports FAR 3348 Polyester R1.5 46 (36) 47 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348 Polyester R1.5	E Level /30/30 a sides Report Day Design 3094-50 Note: Impact Sound Resistant E Level)/90/90 a sides Report Day Design		
TSW350 Image: Constraint of the second sec	 1 layer of Timber sti Resilient / Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers or Timber sti Resilient / Channel 2 layers or fireshield ca Stud Depth (mm) 	13mm firesh ud framing a Nounts and a 13mm firesh n be substitu Wall Width (mm) 133 153 f 13mm fires ud framing a Nounts and a f 13mm fires n be substitu Wall Width (mm)	ield t maximum 6 minimum 18m ield ted with multi Sound Insulat Rw (Rw + Ctr) 38 (31) hield t maximum 6 minimum 18m hield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 48 (38)	00mm centro om Furring shield or tru ro ion Pink [®] Batts Wall R1.5 47 (36) 48 (36) 00mm centro om Furring shield or tru ro ion Pink [®] Batts Wall R1.5 56 (47)	es Pink [®] Wall 47 (48 (48 (es Pink [®] Wall 57 (F -/(73 Batts R2.0 36) (36) (36) (36) (36) (36) (36) (36)	ire Resistance 50/60 and 30, ated from both FAR 3348 Polyester R1.5 46 (36) 47 (36) 47 (36) ire Resistance 20/120 and 90 ated from both Reports FAR 3348 Polyester R1.5 56 (47)	E Level (30/30 a sides Report Day Design 3094-50 Note: Impact Sound Resistant E Level D/90/90 a sides Report Day Design 3094-45 'TL554-6		

TSW510	• 1 layer of	13mm firesh	ield			_		Laural	
	 Timber st 	ud framing a	t maximum 6	00mm centr	es	F	ire Resistance	e Level	
	 1 layer of 1 	3mm fire shie	ld plus 1 layer (of 6mm Villabo	mord	-/60/60 and 30/30/30			
						ra	ated from both	n sides	
							Decete		
	fireshield ca	n be substitu	ted with mult	ishield or tru r	ock	FAR 3348			
	The order o	f wall linings	can be rever	sed					
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	tion)					
			No	Pink [®] Batts	Pink®	Batts	Polyester		
			insulation	Wall R1.5	Wall	R2.0	R1.5		
	70	100	40 (77)	44 (77)			$\Lambda\Lambda(7C)$	Report	
	70	102	40 (55)	44 (57)	-		44 (50)	Day Design	
	0.0	100	41 (77)	44(70)	45 (70)	3094-45		
	90	122	41 (55)	44 (58)	45 (29)	44 (58)		
TSW512	• 1 layer of 1	3mm fire shie	ld plus 1 layer (of 6mm Villabo	mord™				
	• Timber stud framing at maximum 600mm centres					Fire Resistance Level			
		Zmm ficechio	d aluc 1 lavac	of 6 mm \/illah	oocd™				
	• 1 layer of 1	3mm fire shie	ld plus 1 layer (of 6mm Villabo	™bnec	-/9	90/90 and 60	/60/60	
	• 1 layer of 1	3mm fire shie	<mark>ld</mark> plus 1 layer (of 6mm Villabo	mord	-/ 9 ra	90/90 and 60 ated from both	/60/60 n sides	
	• 1 layer of 1	3mm fire shie	ld plus 1 layer o	of 6mm Villabo	™brec	-/ 9 ra	90/90 and 60 ated from both Reports	/60/60 n sides	
	• 1 layer of 1	3mm fire shie	ld plus 1 layer of ted with mult	of 6mm Villabo ishield or tru r	oard™ ock	-/ <u>9</u> ra	90/90 and 60 ated from both Reports FAR 3348	/60/60 n sides	
	• 1 layer of 1 fire shield ca The order o	3mm fire shie In be substitu f wall linings	ld plus 1 layer of ted with mult can be revers	of 6mm Villabo ishield or tru r sed	oard™ ock	-/ 9 ra	90/90 and 60 ated from both Reports FAR 3348	/60/60 n sides	
	 1 layer of 1 fireshield ca The order o Stud Depth (mm) 	3mm fire shie In be substitu f wall linings Wall Width (mm)	ted with mult can be rever Sound Insulat Rw (Rw + Ctr	of 6mm Villabo ishield or tru r sed tion	oard™	-/9 ra	90/90 and 60 , ated from both Reports FAR 3348	/60/60 n sides	
	• 1 layer of 1 fire shield ca The order o Stud Depth (mm)	3mm fire shie on be substitu f wall linings Wall Width (mm)	ld plus 1 layer of ted with mult can be rever Sound Insulat Rw (Rw + Ctr No	of 6mm Villabo ishield or trun sed tion) Pink [®] Batts	oard™ ock Pink®	-/S	90/90 and 60 , ated from both Reports FAR 3348 Polyester	/60/60 n sides	
	• 1 layer of 1 fireshield ca The order o Stud Depth (mm)	3mm fireshie on be substitu f wall linings Wall Width (mm)	ld plus 1 layer of ted with mult i can be rever: Sound Insulat Rw (Rw + Ctr No insulation	ishield or tru r sed pink [®] Batts Wall R1.5	oard™ ock Pink [®] Wall	-/s ra Batts R2.0	Polyester R1.5	/60/60 h sides	
	• 1 layer of 1 fireshield ca The order o Stud Depth (mm) 70	3mm fireshie on be substitu f wall linings Wall Width (mm) 108	Id plus 1 layer of ted with mult i can be rever: Sound Insulat Rw (Rw + Ctr No insulation 44 (36)	ishield or tru r sed Pink [®] Batts Wall R1.5	oard™ ock Pink [®] Wall	-/s ra Batts R2.0	Polyester R1.5 47 (41)	/60/60 h sides	
	• 1 layer of 1 fire shield ca The order o Stud Depth (mm) 70	3mm fireshie on be substitu f wall linings Wall Width (mm) 108	Id plus 1 layer of ted with mult ican be revers Sound Insulat Rw (Rw + Ctr) No insulation 44 (36)	ishield or trur sed tion Pink [®] Batts Wall R1.5 47 (41)	oard™ ock Pink [®] Wall	-/s ra Batts R2.0	Polyester R1.5 47 (41)	Report Day Design	

TSW304	 Timber stu 2 layers of 	ud framing a f 16mm <mark>fire</mark> s	t maximum 6 hield	00mm centr	es	F -/e rated	ire Resistance 50/60 and 60/ from the lined Reports	Level 60/60 I side only	
	fireshield ca	n be substitu	ted with multi	ishield or tru r	ock		FAR 3348		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)					
				N insul	lo ation				
	70	102		35	(32)			Report	
	90	122		35	(32)			3094-45	
TSW305	• Timber stu	ud framing a	t maximum 6	00mm centr	es				
	 3 layers of 	f 16mm <mark>fire</mark> s	hield			F	ire Resistance	Level	
						-/12 rated	0/120 and 120/ from the lined	120/120 I side only	
	fireshield ca	n be substitu	ted with multi	ishield or tru n	ock		Reports FAR 3348		
	Stud Depth	Wall Width	Sound Insulat	ion					
	()			N insul	lo				
	70 118 38 (36)				(36)			Report	
	90	138	38 (36)					Day Design 3094-45	
TOWDAR	• 1 laver of	16mm fire sh	ield						
15W315	 Timber stu 	ud framing a	t maximum 6	00mm centr	es	F	ire Resistance	Level	
	 1 layer of 	16mm fire sh	ield			2/- רמ	90/90 and 60/ ated from both	60/60 sides	
							Reports		
	fireshield ca	n be substitu	ted with multi	ishield or tru r	ock		FAR 3340		
	(mm)	(mm)	Rw (Rw + Ctr)))					
			No insulation	Vink [®] Batts Wall R1.5	Vink® E Wall F	Batts R2.0	Polyester R1.5	Report	
	70	102	38 (30)	41 (33)	-		41 (33)	Day Design	
	90	122	38 (30)	42 (34)	42 (3	36)	42 (34)	3094-45	
TSW316	• 1 layer of	16mm <mark>fire</mark> sh	ield						
	Timber stu	ud framing al	t maximum 6 bield	00mm centr	es	F	re Resistance	Level	
	2 layers of	i ionni nes	IIIelo			- / 1 2	ated from both	sides	
	ficeshield ca	n he substitu	ted with multi	ishield o r tru r	ock		Reports FAR 3348		
	Stud Depth	Wall Width	Sound Insulat	ion					
		(mm)	KW (KW + CC)						
			No	Pink [®] Batts	Pink [®] E	insulation Wall R1.5 Wall R2.0			
	70	118	No insulation 42 (34)	Pink [®] Batts Wall R1.5 44 (39)	Pink® E Wall F	Batts R2.0	Polyester R1.5 44 (39)	Report	

		f 16 mm files	hield						
TSW317	 Z layers o Timber st 	ud framino a	nieio t maximum 6	00mm centr	es	F	ire Resistance	e Level	
	• 2 layers o	f 16mm <mark>fire</mark> s	hield			-/12	0/120 and 120 ated from both	/120/120 n sides	
	ficeshield ca	an he substitu	ted with mult	ishield or tr uc	ock		Reports FAR 3348		
	Stud Depth	Wall Width	Sound Insulat	tion					
	(mm) .	(mm)	Rw (Rw + Ctr) Dial [®] Dabba	Diali®	Dabba	Delveetee	1	
			insulation	Wall R1.5	Wall F	R2.0	R1.5	Decet	
	70	134	45 (39)	47 (42)	-		47 (42)	Day Design	
	90	90 154 46 (39) 47 (43) 48 (44) 47 (43)							
TSW319	• 3 layers o	f 16mm <mark>fire</mark> s	hield			F	ire Resistance	Level	
	 Timber st 3 layers o 	ud framing a f 16mm fire s	t maximum 6 ihield	UUMM CENT	es	-/24	0/240 and 120)/120/120	
						ſ	ated from both	n sides	
	fireshield ca	an be substitu	ted with mult	ishield or tru r	ock		Reports FAR 3348		
	Stud Depth Wall Width Sound Insulation (mm) (mm) Rw (Rw + Ctr)								
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall F	Batts R2.0	Polyester R1.5	Report	
	70	166	50 (43)	51 (46)	-	- 51 (46)		Day Design	
	90	186	50 (44)	51 (47)	52 (4	48)	51 (47)	5094-50	
TSW355	• 1 layer of	16mm fire sh	ield						
TSW355	 1 layer of Timber st Resilient 	16mm fire sh ud framing a Mounts and	ield t maximum 6 minimum 18n	00mm centr nm Furring	es	F -/9	ire Resistance 90/90 and 60	e Level /60/60	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of 	16mm fire sh ud framing a Mounts and 16mm fire sh	ield t maximum 6 minimum 18n ield	00mm centr nm Furring	es	F -/9	ire Resistance 20/90 and 60 ated from both Reports	: Level /60/60 h sides	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca 	16mm fire sh ud framing a Mounts and 16mm fire sh an be substitu	ield t maximum 6 minimum 18n ield ted with mult i	00mm centr nm Furring ishield or tru r	es	F -/9 ra	ire Resistance 90/90 and 60 ated from both Reports FAR 3348	: Level /60/60 n sides	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 	16mm fire sh ud framing a Mounts and 16mm fire sh an be substitu Wall Width (mm)	ield t maximum 6 minimum 18n ield ted with mult Sound Insula Rw (Rw + Ctr	00mm centr nm Furring ishield or tru r	es ock	F -/ <u>9</u> ra	ire Resistance 30/90 and 60 ated from both Reports FAR 3348	e Level /60/60 n sides	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 	16mm fire sh ud framing a Mounts and 16mm fire sh an be substitu Wall Width (mm)	ield t maximum 6 minimum 18n ield ted with mult Sound Insulal Rw (Rw + Ctr No insulation	00mm centr nm Furring ishield or tru r tion) Pink [®] Batts Wall R1.5	es ock	F -/9 ra Batts R2.0	Fire Resistance 20/90 and 60, ated from both Reports FAR 3348 Polyester R1.5	E Level /60/60 n sides Report	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139	ield t maximum 6 minimum 18n ield ted with mult Sound Insulal Rw (Rw + Ctr No insulation 41 (32)	00mm centr nm Furring ishield or trur ishield or trur ion) Pink [®] Batts Wall R1.5 50 (41)	es ock Pink [®] Wall F 51 (4	F -/9 ra Batts R2.0 42)	Fire Resistance 90/90 and 60, ated from both Reports FAR 3348 Polyester R1.5 49 (41)	Report Day Design 3094-50	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159	ield t maximum 6 minimum 18 ield ted with mult Sound Insulal Rw (Rw + Ctr No insulation 41 (32) 42 (33)	00mm centr nm Furring ishield or trur tion Pink [®] Batts Wall R1.5 50 (41) 50 (42)	es ock Pink [®] Wall F 51 (4	F -/9 ra Batts R2.0 42)	Polyester R1.5 49 (41) 50 (42)	Report Day Design 3094-50 Note: Impact Sound Resistant	
<section-header></section-header>	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o 	16mm firesh ud framing a Mounts and 16mm firesh on be substitu Wall Width (mm) 139 159 f 16mm fires	ield t maximum 6 minimum 18n ield ted with mult Sound Insulat Rw (Rw + Ctr) No insulation 41 (32) 42 (33)	OOmm centr nm Furring ishield or trun ishield or trun ishield or trun 50 (41) 50 (42)	es ock Wall F 51 (4	F -/9 ra Batts R2.0 42) 43)	Fire Resistance action of the second	Report Day Design 3094-50 Note: Impact Sound Resistant	
TSW355	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159 f 16mm fires ud framing a Mounts and	ield t maximum 6 minimum 18n ield ted with mult Sound Insulat Rw (Rw + Ctr No insulation 41 (32) 42 (33) thield t maximum 6 minimum 18n	00mm centr nm Furring ishield or trur ishield or trur ishield or trur 50 (41) 50 (42) 00mm centr nm Furring	es ock Pink [®] Wall F 51 (4 51 (4 es	F -/9 ra Batts R2.0 42) 43) F -/12	Polyester R1.5 49 (41) 50 (42) ire Resistance	E Level /60/60 n sides Day Design 3094-50 Note: Impact Sound Resistant	
TSW355 File state in the second	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient Channel 2 layers o 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159 f 16mm fires ud framing a Mounts and f 16mm fires	ield t maximum 6 minimum 18n ield ted with multi Sound Insulat Rw (Rw + Ctr) No insulation 41 (32) 42 (33) thield t maximum 6 minimum 18n	00mm centr nm Furring ishield or trun ishield or trun ishield or trun 50 (41) 50 (42) 00mm centr nm Furring	es ock Pink [®] Wall F 51 (4 51 (4	F -/9 ra Batts R2.0 42) 43) F -/12 ra	ire Resistance abol 90 and 60, ated from both Reports FAR 3348 Polyester R1.5 49 (41) 50 (42) Fre Resistance 0/120 and 120 ated from both Reports	Report Day Design 3094-50 Note: Impact Sound Resistant Level /120/120	
TSW355 File the second s	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient Channel 2 layers o fireshield ca 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159 f 16mm fires ud framing a Mounts and f 16mm fires	ield t maximum 6 minimum 18n ield ted with mult Sound Insulal Rw (Rw + Ctr) No insulation 41 (32) 42 (33) hield t maximum 6 minimum 18n hield ted with mult	00mm centr nm Furring ishield or trun ishield or trun ishield or trun 50 (41) 50 (42) 00mm centr nm Furring	es Dock Pink® Wall F 51 (4 51 (4 es Dock	F -/9 ra Batts R2.0 42) 43) F -/12 ra	Fire Resistance action from both Reports FAR 3348 Polyester R1.5 49 (41) 50 (42) Fire Resistance 0/120 and 120 acted from both Reports FAR 3348	Report Day Design 3094-50 Note: Impact Sound Resistant	
TSW355 File and the second seco	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient Channel 2 layers o fireshield ca Stud Depth (mm) 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159 f 16mm fires ud framing a Mounts and f 16mm fires an be substitu Wall Width (mm)	ield t maximum 6 minimum 18n ield ted with mult Sound Insulal Rw (Rw + Ctr) No insulation 41 (32) 42 (33) hield t maximum 6 minimum 18n chield ted with mult Sound Insulal Rw (Rw + Ctr)	00mm centr nm Furring ishield or tru ri tion Pink [®] Batts Wall R1.5 50 (41) 50 (42) 00mm centr nm Furring ishield or tru ri	es ock Pink [®] Wall F 51 (4 51 (4 es	F -/9 ra Batts R2.0 42) 43) F -/12 ra	Fire Resistance 20/90 and 60, ated from both Reports FAR 3348 Polyester R1.5 49 (41) 50 (42) Fire Resistance 0/120 and 120 ated from both Reports FAR 3348	e Level /60/60 n sides Day Design 3094-50 Note: Impact Sound Resistant e Level /120/120 n sides	
TSW355 Final Action of the second seco	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient Channel 2 layers o fireshield ca Stud Depth (mm) 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 159 f 16mm fires ud framing a Mounts and f 16mm fires an be substitu Wall Width (mm)	ield t maximum 6 minimum 18n ield ted with mult Sound Insulal Rw (Rw + Ctr No insulation 41 (32) 42 (33) hield t maximum 6 minimum 18n hield ted with mult Sound Insulal Rw (Rw + Ctr No insulation	OOmm centr nm Furring ishield or trun ishield or trun ishield or trun 50 (41) 50 (42) OOmm centr nm Furring ishield or trun ishield or trun	es Pink [®] Wall F 51 (4 51 (4 51 (4 es pink [®] Wall F	F -/9 ra Batts R2.0 42) 43) F -/12 ra Batts R2 0	Fire Resistance PO/90 and 60, ated from both Reports FAR 3348 Polyester R1.5 49 (41) 50 (42) Fire Resistance 0/120 and 120 ated from both Reports FAR 3348 Polyester P1 5	E Level /60/60 sides Report Day Design 3094-50 Note: Impact Sound Resistant Level /120/120 sides Report	
TSW355 File the second s	 1 layer of Timber st Resilient Channel 1 layer of fireshield ca Stud Depth (mm) 70 90 2 layers o Timber st Resilient Channel 2 layers o fireshield ca Stud Depth (mm) 70 	16mm firesh ud framing a Mounts and 16mm firesh an be substitu Wall Width (mm) 139 139 159 f 16mm fires ud framing a Mounts and f 16mm fires an be substitu Wall Width (mm) 171	ield t maximum 6 minimum 18n ield ted with mult Sound Insulat Rw (Rw + Ctr No insulation 41 (32) 42 (33) thield t maximum 6 minimum 18n ted with mult Sound Insulat Rw (Rw + Ctr No insulation 50 (40)	OOmm centr nm Furring ishield or trun ishield or trun ishield or trun 50 (41) 50 (42) OOmm centr nm Furring ishield or trun ishield or trun ishield or trun 57 (49)	es Pink [®] Wall F 51 (4 51 (4 51 (4 Pink [®] Wall F 58 (1)	F -/9 ra Batts R2.0 42) 43) F -/12 ra Batts R2.0 50)	FAR 3348 Polyester R1.5 49 (41) 50 (42) FAR 3348 Polyester R1.5 49 (41) 50 (42) FIR Resistance 0/120 and 120 ated from both Reports FAR 3348 Polyester R1.5 57 (49)	ELEVEI /60/60 bides Report Day Design 3094-50 Note: Impact Sound Resistant ELEVEI /120/120 bides Report Day Design 3094-45	

TSW514	1 layer of 16mm fireshield Eire Pesistance Level							
	 Timber str 	ud framing a	t maximum 6	00mm centr	es	F	ire Resistance	Level
	• 1 layer of 1	6mm fire shiel	<mark>ld</mark> plus 1 layer (of 6mm Villabo	™breo	-/90/90 and 60/60/60 rated from both sides		
	fire shield ca The order of	n be substitu f wall linings	ted with multi can be revers	shield or tru r	ock		Reports FAR 3348	
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)				
			No insulation	Pink [®] Batts Wall R1.5	Pink® Wall	Batts R2.0	Polyester R1.5	Doport
	70	108	41 (33)	44 (38)	-		44 (38)	Day Design
	90	128	42 (33)	44 (39)	45 (40)	44 (39)	3094-45
TOWEAC	• 1 laver of 1	6mm fire shiel	d plus 1 laver (of 6mm Villab	oard™			
1500516	 Timber sti 	ud framing a	t maximum 6	00mm centr	es	F	ire Resistance	Level
	• 1 layer of 1	6mm fire shiel	<mark>ld</mark> plus 1 layer (of 6mm Villabo	oard™	-/1 2 ra	20/120 and 60 ated from both)/60/60 n sides
	 1 layer of 1 fireshield ca The order of 	6mm fire shiel In be substitu f wall linings	d plus 1 layer o ited with mul i can be revers	of 6mm Villabo tishield or tru sed	oard™ Irock	-/1: ra	20/120 and 60 ated from both Reports FAR 3348	0/60/60 n sides
	 1 layer of 1 fireshield ca The order of Stud Depth (mm) 	6mm fire shiel In be substitu f wall linings Wall Width (mm)	d plus 1 layer o ited with mul i can be revers Sound Insulat Rw (Rw + Ctr)	of 6mm Villabo tishield or tru sed :ion	oard™ Irock	-/1 2 ra	20/120 and 60 ated from both Reports FAR 3348	0/60/60 a sides
	 1 layer of 1 fireshield ca The order of Stud Depth (mm) 	6mm fire shiel In be substitu f wall linings Wall Width (mm)	d plus 1 layer of ted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation	tishield or tru sed) Pink [®] Batts Wall R1.5	oard™ Irock Pink® Wall	-/12 ra Batts R2.0	20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5	D/60/60 a sides
	 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 	6mm fire shiel In be substitu f wall linings Wall Width (mm) 114	d plus 1 layer o uted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation 44 (37)	tishield or tru sed) Pink [®] Batts Wall R1.5 47 (42)	oard™ Irock Pink® Wall	-/12 ra Batts R2.0	20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 47 (42)	Report Day Design

TSW330	 1 layer of Timber stu Minimum Timber stu 1 layer of 	13mm fire sh ud framing a 20mm air ga ud framing a 13mm fire sh	ield t maximum 6 ip t maximum 6 ield ted with mult i	00mm centr 00mm centr	es es	F -/(ra	ire Resistance 50/60 and 30 ated from both Reports	2 Level /30/30 h sides
	Insulation in	Wall Width	Sound Insulat	ion			FAR 3348	
	(mm)	(mm)	Rw (Rw + Ctr))				1
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall F	Batts R2.0	Polyester R1.5	Report Day Design
	70 160mm cavity	186	43 (37)	52 (42)	53 (4	43)	51 (42)	3094-45 Note: Impact Sound
	90 200mm cavity	226	45 (38)	52 (44)	54 (4	44)	52 (43)	Resistant - Discontinuous Construction
TSW331	 1 layer of Timber str Minimum Timber str 2 layers of fireshield ca 	13mm fire sh ud framing a 20mm air ga ud framing a f 13mm fire s n be substitu	ield t maximum 6 p t maximum 6 hield ted with multi	00mm centr 00mm centr ishield or tru r	es es ock	F -/!	ire Resistance 90/90 and 30 ated from both Reports FAR 3348	2 Level /30/30 n sides
	Insulation in	n one frame o Wall Width	only Sound Insulat	ion				
	(mm)	(mm)	Rw (Rw + Ctr)					1
			No insulation	Pink [®] Batts Wall R1.5	Pink® Wall I	Batts R2.0	Polyester R1.5	Report Day Design
	70 160mm cavity	199	48 (41)	57 (48)	58 (4	49)	56 (48)	3094-45 Note: Impact Sound
	90 200mm cavity	239	50 (42)	57 (50)	59 (50)	57 (49)	Resistant - Discontinuous Construction
TSW332	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in 	f 13mm fires ud framing a 20mm air ga ud framing a f 13mm fires n be substitu o one frame o	hield t maximum 6 pp t maximum 6 hield ted with multi poly	00mm centr 00mm centr ishield or tru r	es es ock	F -/1: ra	ire Resistance 20/120 and 90 ated from botl Reports FAR 3348	e Level D/90/90 n sides
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)				
			No	Pink [®] Batts Wall R1 5	Pink [®]	Batts	Polyester R1 5	Report
	70 160mm cavity	212	53 (45)	62 (54)	63 (!	55)	61 (53)	3094-45 Note: Impact
	90 200mm cavity	252	55 (46)	62 (55)	64 (55)	62 (55)	Resistant - Discontinuous Construction
TSW380	 1 layer of 13 Timber stu Minimum Timber stu 1 layer of 13 fireshield ca 	Smm fire shield ud framing a 20mm air ga ud framing a Smm fire shield n be substitu	plus 1 layer of t maximum 6 p t maximum 6 plus 1 layer of ted with multi	13mm masta sh OOmm centr OOmm centr 13mm masta sh ishield or tru r	nield es es nield ock	F -/9 ra	ire Resistance 20/90 and 60 ated from botl Reports FAR 3348	2 Level /60/60 n sides
	Stud Depth	Wall Width	Sound Insulat	ion				
			No	Pink [®] Batts Wall R1.5	Pink [®] Wall F	Batts R2.0	Polyester R1.5	Report Day Design
				-	1			3094-45
	70 160mm cavity	212	52 (44)	61 (52)	62 (53)	60 (52)	Note: Impact Sound

TSW531	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth 	f 13mm fires ud framing a 20mm air ga ud framing a 3mm fireshie n be substitu f wall linings Wall Width	hield t maximum 6 ap t maximum 6 Id plus 1 layer o ted with multi can be revers Sound Insulat	00mm centr 00mm centr of 6mm Villabo ishield or tru r sed tion	es es pard™ ock	F -/9 ra	ire Resistance 90/90 and 30 , ated from both Reports FAR 3348	2 Level /30/30 h sides
	(mm)	(mm)	Rw (Rw + Ctr))				
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report Day Design
	70 160mm cavity	205	53 (45)	61 (53)	63 (54)	61 (53)	3094-45 Note: Impact Sound
	90 200mm cavity	245	54 (45)	62 (55)	64 ((55)	61 (54)	Resistant - Discontinuous Construction
TSIMEZO	• 1 layer of 1	3mm fire shie	ld plus 1 layer o	of 6mm Villab	oard™			
	 Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of 	ud framing a 20mm air ga ud framing a 3mm fire shie n be substitu f wall linings	t maximum 6 ap t maximum 6 ld plus 1 layer o ted with multi can be revers	00mm centr 00mm centr of 6mm Villabo ishield or tru r sed	es es bard™ ock	ר י/ <u>י</u> רז	ire Resistance 30/90 and 60 ated from both Reports FAR 3348	• Level /60/60 n sides
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	tion)	I			
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report Day Design
	70		52 (44)	61 (52)	62 (53)	60 (52)	3094-45 Note: Impact
	160mm cavity	199	52 (44)	01 (92)	02 (/		Sound

	 1 laver of ' 	16mm fire sh	ield						
15W535	 Timber stu 	ud framing a	t maximum	600mm (centres		Fire Re	esistan	ce Level
	• Minimum	20mm air ga	р				-/90/90) and 6	0/60/60
	 Timber stu 	ud framing a	t maximum	600mm (centres		rated f	from bo	oth sides
	• 1 layer of '	16mm <mark>fire</mark> sh	ield					Report	S
	ficeshield ea	o bo cubctit	utod with	nultishiolo	d oc te uco			FAR 334	48
	Stud Dooth		Sound locul						
	(mm)	(mm)	Rw (Rw + C	tr)					
			No	Pink [®] Batts	2 x Pink [®] Bat	ts Pink [®] E	Batts 2 x Pir	nk [®] Batts	Report
	70		Insulation	Wall R1.5		VVall R	2.0 VVal	II R2.0	3094-45
	160mm cavity	192	46 (39)	54 (45)	58 (48)	55 (4	15) 59	(49)	Note: Impact
	90	070	47 (7.0)	55 (46)	50 (50)	=== ((=4)	Resistant -
	200mm cavity	252	47 (39)	55 (46)	59 (50)	56 (2	+/) 60	(51)	Construction
	• 1 laver of '	16mm fire sh	ield						
ISW336	 Timber stu 	ud framino a	t maximum	600mm (centres		Fire Res	istance	e Level
	• Minimum	20mm air ga	p				/120/120	and 60	0/60/60
	• Timber stu	ud framing a	t maximum	600mm (centres		rated fro	om both	n sides
	 2 layers of 	f 16mm <mark>fire</mark> s	hield				R	eports	
	fireshield ca	n be substitu one frame (ited with <mark>m</mark>	ulti shield	or tru roc	k	FA	R 3348	
	Stud Depth	Wall Width	Sound Insu	lation					
	(mm)	(mm)	Rw (Rw + C	tr)					1
			No	Pink [®] E Wall R	Batts Pir 81.5 W	nk® Batts Iall R2.0	S Polye	ester 1.5	Report Day Design
	70	200	F1 (47)	50 (F			50 ((50)	3094-45
	160mm cavity	208	51 (45)	59 (5)	50 (51)) 80	(50)	Note: Impact Sound
	90	248	52 (44)	60 (5	52)	61 (53)	59 ((52)	Resistant - Discontinuous
		1							Construction
TSW337	• 2 layers of	f 16mm fire s	hield		I		Fire Pes	istance	
TSW337	 2 layers of Timber students 	f 16mm fire s Jd framing a	hield t maximum	600mm (centres		Fire Res	istance	e Level
TSW337	 2 layers of Timber stu Minimum Timber stu 	f 16mm fire s Jd framing a 20mm air ga	hield t maximum p t maximum	600mm (centres	-/*	Fire Resi	istance and 120	e Level
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of 	f 16mm fire s Jd framing a 20mm air ga Jd framing a f 16mm fire s	hield t maximum p t maximum hield	600mm (centres	-/'	Fire Resi	istance Ind 120 Ind both	• Level /120/120
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca 	f 16mm fire s ud framing a 20mm air ga ud framing a f 16mm fire s n be substitu	hield t maximum p t maximum hield uted with m	600mm o 600mm o ulti shield o	centres centres or tru roc	- /'	Fire Resident Fi	istance and 120 am both eports AR 3348	e Level /120/120 n sides
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu o one frame	hield t maximum p t maximum hield uted with m only	600mm o 600mm o ultishield	centres centres or tru roc	- <i>1'</i>	Fire Resident Fire Resident Fire Resident Fire Resident Fire Resident Fire Resident Fire Fire Fire Fire Fire Fire Fire Fire	istance and 120 am both eports AR 3348	e Level /120/120 n sides
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation ir Stud Depth (mm) 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu n one frame (Wall Width (mm)	hield t maximum t maximum hield uted with m only Sound Insu Rw (Rw + C	600mm o 600mm o ultishield lation	centres centres or tru roc	- / *	Fire Resident Fire Resident Fire Resident Fire Resident Fire Resident Field Fire Resident Field	istance and 120 am both eports NR 3348	E Level /120/120 n sides
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu one frame o Wall Width (mm)	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No	600mm o 600mm o ultishield lation tr) Pink [®] E	centres centres or tru roc	k -/*	Fire Resident of the second se	istance and 120 am both reports AR 3348 ester	e Level /120/120 n sides
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu n one frame (Wall Width (mm)	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation	600mm o 600mm o ultishield lation tr) Pink [®] E Wall R	centres centres or tru roc Batts Pir 21.5 W	k k [®] Batts /all R2.0	Fire Resi 120/120 a rated fro R FA	istance and 120 om both reports R 3348 ester .5	e Level /120/120 n sides Report Day Design 3094-45
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu n one frame o Wall Width (mm) 224	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47)	600mm o 600mm o ultishield lation tr) Pink [®] E Wall R 64 (5	centres centres or tru roc Batts Pir 21.5 W	k k /all R2.0 56 (57)	Fire Resident of the second se	istance and 120 am both reports NR 3348 ester 1.5	Report Day Design 3094-45 Note: Impact
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu o ne frame o Wall Width (mm) 224	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47)	600mm o 600mm o ultishield lation tr) Pink [®] E Wall R 64 (5	Centres centres or tru roc Batts Pir (1.5 W (6) (k k /all R2.0 56 (57)	Fire Resident of the second se	istance ind 120 om both leports IR 3348 ester I.5 (56)	Report Day Design 3094-45 Note: Impact Resistant -
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu one frame o Wall Width (mm) 224 264	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48)	600mm o 600mm o ultishield (lation tr) Pink [®] E Wall R 64 (5 65 (5	Centres Centres or tru roc Batts Pir R1.5 W S6) (S8) (k Batts /all R2.0 56 (57)	Fire Resident of the second se	istance and 120 am both reports NR 3348 ester 1.5 (56) (58)	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu o ne frame o Wall Width (mm) 224 264	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48)	600mm (600mm (ultishield (lation tr) Pink [®] E Wall R 64 (5 65 (5	Centres centres or truroc Batts Pir 21.5 W 36) (38) (k -,' k Batts /all R2.0 56 (57)	Fire Resident of the second se	istance ind 120 om both leports R 3348 ester I.5 (56) (58)	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu one frame o Wall Width (mm) 224 264 16mm firesh ud framing a	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum	600mm o 600mm o ultishield o lation tr) Pink® E Wall R 64 (5 65 (5 600mm o	centres centres or tru roc Batts Pir 21.5 W 36) (38)	-,' k all R2.0 56 (57)	Fire Resident of the second se	istance and 120 am both eports (R 3348 ester (56) (56) (58)	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu Minimum 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu one frame o Wall Width (mm) 224 264 16mm firesh ud framing a 20mm air ga	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum	600mm o 600mm o ultishield o lation tr) Pink [®] E Wall R 64 (5 65 (5 600mm o	centres centres or truroc Batts Pir R1.5 M (6) (6) (88) (6) centres	-/* k [®] Batts Jall R2.0 56 (57) 56 (59)	Fire Resident of the second se	istance and 120 om both eports RR 3348 ester (56) (58) istance and 60	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of Timber stu Minimum Timber stu 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitu one frame (Wall Width (mm) 224 264 264 16mm firesh ud framing a 20mm air ga ud framing a	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum	600mm o 600mm o ultishield lation tr) Pink [®] E 0 Wall R 64 (5 65 (5 600mm o 600mm o	Centres centres or truroc Batts Pir (1.5 W (6) ((6) ((7) (-/* k [®] Batts /all R2.0 56 (57)	Fire Resident Fi	istance and 120 om both eeports R 3348 ester (56) (56) (58) istance and 60, om both	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of f Timber stu Minimum Timber stu 1 layer of f 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitut o ne frame (Wall Width (mm) 224 264 16mm firesh ud framing a 20mm air ga ud framing a	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum plus 1 layer	600mm o 600mm o ultishield o lation tr) Pink [®] E Wall R 64 (5 65 (5 600mm o 600mm o 600mm o	centres centres or truroc 3atts Pir 21.5 W 36) (38) (-/' k Batts /all R2.0 56 (57)	Fire Resident of the second se	istance and 120 am both leports RR 3348 ester .5 (56) (56) (58) istance and 60, am both leports	Report Day Design 3094-45 Note: Impact Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 1 Timber stu Minimum Timber stu 1 layer of 16 fireshield ca mastashield ca 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitut o one frame o Wall Width (mm) 224 264 264 16mm firesh ud framing a 20mm air ga ud framing a 5mm fireshield n be substitut can be substitut	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) 57 (48) 57 (48) ield t maximum p t maximum plus 1 layer uted with m	600mm o 600mm o ultishield u lation itr) Pink® E Wall R 64 (5 65 (5 600mm o 600mm o 600mm o h watershield u	centres or truroc Batts Pir 21.5 W 36) (38) (3	k -/' k Batts /all R2.0 56 (57)	Fire Resident of the second se	istance and 120 om both eeports R 3348 ester (56) (56) (58) istance and 60, om both eeports R 3348	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu Minimum Timber stu 1 layer of 16 fireshield ca mastashield Stud Depth 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires in be substitut one frame (Wall Width (mm) 224 264 16mm firesh ud framing a 20mm air ga ud framing a 5mm fireshield in be substitut can be substitut	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum p t maximum pus 1 layer uted with m stituted with m	600mm o 600mm o ultishield o lation tr) Pink® E 0 Wall R 64 (5 65 (5 600mm o 600mm o 0 f 10mm m ultishield o h watershield of h watershield of h watershield of h watershield of h watershield of the shield of t	centres centres or truroc Batts Pir R1.5 W G G B B B C C C C C C C C C C C C C C C	k -/* k 8atts /all R2.0 56 (57) 56 (59)	Fire Resi I20/120 a rated fro R FA S Polye R1 63 (64 (Fire Resi rated fro R FA	istance and 120 bom both reports NR 3348 ester (56) (58) istance and 60, bom both reports NR 3348	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu Minimum Timber stu 1 layer of 16 fireshield ca mastashield Stud Depth (mm) 	f 16mm fires Jd framing a 20mm air ga Jd framing a f 16mm fires In be substitut one frame of Wall Width (mm) 224 264 16mm firesh Jd framing a 20mm air ga Jd framing a 5mm fireshield In be substitut can be substitut (mm)	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) 57 (48) 57 (48) 57 (48) ield t maximum p t maximum p t maximum p t maximum p t maximum p t maximum p t maximum	600mm of 600mm of ultishield lation tr) Pink [®] E Wall R 64 (5 65 (5 600mm of 600mm of 600mm of 600mm of 610mm m ultishield h watershi lation	centres contres or truroc Batts Pir 21.5 W 26) (38) (-/* k -/* hk [®] Batts /all R2.0 56 (57) 56 (59)	Fire Resiler I20/120 a rated from R FA S Polyer R1 63 (64 (Fire Resiler rated from R FA	istance and 120 om both eeports RR 3348 ester (56) (58) istance and 60, om both eeports RR 3348	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu 1 layer of 16 fireshield ca mastashield Stud Depth (mm) 	f 16mm fires ud framing a 20mm air ga ud framing a f 16mm fires n be substitut one frame (Wall Width (mm) 224 264 264 16mm fireshield n be substitut can be substitut can be substitut (mm)	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) 57 (48) 57 (48) 57 (48) ield t maximum p t maximum plus 1 layer uted with m stituted with m	600mm o 600mm o ultishield o lation tr) Pink [®] E 0 Wall R 64 (5 65 (5 600mm o 600mm o 600mm o 600mm o 10mm m ultishield o h watersh lation tr) Pink [®] E 9 Wall R	centres centres centres centres centres centres centres centres centres astashield or truroc iield Batts Pir 21.5 W	-/* k [®] Batts 36 (57) 56 (59) k k ank [®] Batts ank [®] Batts ank [®] Batts anti-angle and angle angle and angle angle angle and angle and angle and angle and angle and angle angle and angle angle and angle	Fire Resi 120/120 a rated fro R FA S Polye R1 63 (64 (Fire Resi rated fro R rated fro R FA S Polye R1 63 (64 (R FA S Polye R1 63 (64 (R FA S Polye R1 63 (64 (R FA S Polye R R R R R R R R R R R R R	istance ind 120 om both leports R 3348 ester (56) (58) istance and 60, om both leports R 3348 ester .5	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW337 Image: state stat	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu Minimum Timber stu 1 layer of 16 fireshield ca mastashield Stud Depth (mm) 	f 16mm fires Jd framing a 20mm air ga Jd framing a f 16mm fires In be substitut one frame (Wall Width (mm) 224 264 16mm fireshield In be substitut can be substi	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) ield t maximum plus 1 layer uted with m tituted with Sound Insu Rw (Rw + C No insulation	600mm of 600mm of ultishield of lation tr) Pink® E 64 (5 65 (5 600mm of 600mm of 10mm m ultishield h watershield h watershield	centres centres or truroc atts Pir atts	-," k all R2.0 56 (57) 56 (59) k k all R2.0 56 (59)	Fire Resi 20/120 a rated fro R FA 5 Polye R1 63 (64 (Fire Resi rated fro R FA 5 Polye R1 63 (64 (R FA 5 Polye R1 63 (64 (R FA 63 (64 (R FA 63 (64 (64 (64 (64 (64 (64 (64 (65 (istance ind 120 om both eports R 3348 ester .5 (56) (58) istance and 60, om both eports R 3348 ester .5	E Level /120/120 n sides Report Day Design 3094-45 Note: Impact Resistant - Discontinuous Construction E Level /60/60 n sides Report Day Design 3094-45
TSW337 Image: state	 2 layers of Timber stu Minimum Timber stu 2 layers of fireshield ca Insulation in Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 7 Timber stu 1 layer of 16 fireshield ca mastashield Stud Depth (mm) 	f 16mm fires Jd framing a 20mm air ga Jd framing a f 16mm fires In be substitut one frame of Wall Width (mm) 224 264 16mm fireshield In be substitut can be substitut (mm) 202	hield t maximum p t maximum hield uted with m only Sound Insu Rw (Rw + C No insulation 56 (47) 57 (48) 5	600mm of 600mm of ultishield Pink [®] E Wall R 64 (5 65 (5 600mm of 600mm of 600mm of 10mm m ultishield h watersh lation tr) Pink [®] E Wall R 57 (4	centres centres contruroc atts field centres centres centres centres astashield or truroc ield atts Pir c1.5 W astashield stashield stas	-/* k [®] Batts 66 (57) 56 (59) 66 (59) 67 (58)	Fire Resi 20/120 a rated fro R FA S Polye C A C A C A C A C A C A C A C A	istance ind 120 om both eports R 3348 ester (56) (58) istance and 60, om both eports R 3348 ester 1.5 (48)	E Level /120/120 n sides Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction E Level /60/60 n sides Report Day Design 3094-45 Note: Impact Sound

TSW382	 1 layer of 16 Timber stu Minimum Timber stu 1 layer of 16 fireshield ca mastashield 	omm fireshield ud framing al 20mm air ga ud framing al omm fireshield in be substitu can be substitu	plus 1 layer of maximum 6 p maximum 6 plus 1 layer of ited with mul tituted with mul	10mm mastash 00mm centro 00mm centro 10mm mastash tishield or tru watershield	nield es es nield Irock	F -/12 ra	ire Resistance 20/120 and 60 ated from both Reports FAR 3348	: Level 0/60/60 n sides
	(mm)	(mm)	Rw (Rw + Ctr)) Pink [®] Batts	Pink®	Batts	Polyester	Decest
	70		insulation	Wall R1.5	Wall	R2.0	R1.5	Day Design 3094-45
	160mm cavity	212	51 (43)	59 (51)	61 (52)	59 (51)	Note: Impact Sound
	90 200mm cavity	252	53 (44)	60 (53)	62 ((54)	59 (52)	Discontinuous Construction
TSW534	 1 layer of 16mm fireshield Timber stud framing at maximum 600mm centres 						ire Resistance	e Level
	 Minimum 20mm air gap Timber stud framing at maximum 600mm centres 1 layer of 16mm fireshield plus 1 layer of 6mm Villaboard[™] 					-/ 9 ra	90/90 and 60 , ated from both	/60/60 n sides
	fireshield ca	n be substitu f wall linings	ited with mul can be revers	ti shield or tru sed	Irock		Reports FAR 3348	
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)				
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report Day Design
	70 160mm cavity	198	50 (42)	58 (49)	60	(50)	57 (49)	3094-45 Note: Impact
	90 200mm cavity	238	51 (43)	59 (51)	61 ((52)	58 (50)	Resistant - Discontinuous Construction
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of 	f 16mm fire s ud framing al 20mm air ga ud framing al 6mm fire shiel n be substitu f wall linings	hield c maximum 6 p c maximum 6 d plus 1 layer d ited with mul l can be revers	00mm centro 00mm centro of 6mm Villabo tishield or tru sed	es es oard™ Irock	F -/12 ra	ire Resistance 20/120 and 60 ated from both Reports FAR 3348	e Level 0/60/60 n sides
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel m be substitu f wall linings Wall Width (mm)	hield maximum 6 p maximum 6 d plus 1 layer 0 ited with mul can be revers Sound Insulat Rw (Rw + Ctr)	00mm centro 00mm centro of 6mm Villabo tishield or tru sed :ion	es es oard™ irock	F -/12 ra	ire Resistance 20/120 and 60 ated from both Reports FAR 3348	e Level D/60/60 n sides
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel m be substitu f wall linings Wall Width (mm)	hield maximum 6 p maximum 6 d plus 1 layer 6 ted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation	00mm centro 00mm centro of 6mm Villabo tishield or tru sed tion) Pink [®] Batts Wall R1.5	es es oard [™] Irock Pink [®] Wall	F -/12 ra Batts R2.0	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5	e Level D/60/60 n sides Report Day Design
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel n be substitu f wall linings Wall Width (mm) 214	hield maximum 6 p maximum 6 d plus 1 layer 0 ted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation 55 (46)	00mm centro of 6mm Villabo tishield or tru sed ion Pink [®] Batts Wall R1.5 63 (55)	es oard [™] Irock Pink [®] Wall 65 (F -/12 ra Batts R2.0 (56)	Polyester R1.5 63 (55)	Report Day Design 3094-45 Note: Impact Sound
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 90 200mm cavity 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel m be substitu f wall linings Wall Width (mm) 214 254	hield maximum 6 p maximum 6 d plus 1 layer 6 ted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation 55 (46) 56 (47)	00mm centro 00mm centro of 6mm Villabo tishield or tru sed tishield or tru sed Dink [®] Batts Wall R1.5 63 (55) 64 (57)	es oard™ Irock Pink® Wall 65 (66 (F -/12 ra Batts R2.0 (56) (58)	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 63 (55) 63 (56)	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 1 Timber stu Minimum Timber stu 1 layer of 1 fireshield ca 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel in be substitu f wall linings Wall Width (mm) 214 254 6mm fireshiel ud framing al 6mm fireshiel in be substitu	hield maximum 6 p maximum 6 d plus 1 layer 0 ted with mul can be revers Sound Insulat Rw (Rw + Ctr) No insulation 55 (46) 56 (47) d plus 1 layer 0 maximum 6 p maximum 6 p maximum 6 d plus 1 layer 0	00mm centro 00mm centro of 6mm Villabo tishield or tru sed tishield or tru sed tishield or tru 63 (55) 64 (57) 64 (57) 00mm centro 00mm centro of 6mm Villabo	es pard™ prock Pink® Wall 65 (66 (oard™ es es pard™ irock	F -/12 ra Batts R2.0 (56) (58) F -/12 ra	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 63 (55) 63 (56) ire Resistance 20/120 and 60 ated from both Reports FAR 3348	Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW535	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 1 Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth 	f 16mm fires Jd framing al 20mm air ga Jd framing al 6mm fireshiel m be substitut f wall linings Wall Width (mm) 214 254 6mm fireshiel Jd framing al 20mm air ga Jd framing al 6mm fireshiel m be substitut f wall linings Wall Width	hield maximum 6 p maximum 6 d plus 1 layer 6 d plus 1 layer 6 sound Insulat Rw (Rw + Ctr) No insulation 55 (46) 56 (47) d plus 1 layer 6 maximum 6 p maximum 6 d plus 1 layer 6 d plus 1 layer 6 maximum 6 d plus 1 layer 6	00mm centro 00mm centro of 6mm Villabo tishield or tru sed ion Pink [®] Batts Wall R1.5 63 (55) 64 (57) 64 (57) of 6mm Villabo 00mm centro of 6mm Villabo tishield or tru sed	es pard™ prock Pink® Wall 65 (66 (coard™ es coard™ es pard™	F -/12 ra Batts R2.0 (56) (58) (58) F -/12 ra	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 63 (55) 63 (55) 63 (56) ire Resistance 20/120 and 60 ated from both Reports FAR 3348	e Level D/60/60 o sides Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction
TSW535 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 1 Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth Stud Depth 	f 16mm fires Jd framing al 20mm air ga Jd framing al 6mm fireshiel In be substitu f wall linings Wall Width (mm) 214 254 6mm fireshiel Jd framing al 20mm air ga Jd framing al 6mm fireshiel In be substitu f wall linings Wall Width (mm)	hield maximum 6 p maximum 6 d plus 1 layer 6 d plus 1 layer 6 sound Insulat Rw (Rw + Ctr) No insulation 55 (46) 56 (47) d plus 1 layer 6 maximum 6 p maximum 6 d plus 1 layer 6 d plus 1 layer 6 maximum 6 p maximum 6 d plus 1 layer 6 maximum 6 mum 6 d plus 1 layer 6 maximum 6 d plus 1 layer 6 d plus	00mm centro 00mm centro of 6mm Villabo tishield or tru sed ion) Pink [®] Batts Wall R1.5 63 (55) 64 (57) 64 (57) 00mm centro 00mm centro of 6mm Villabo 00mm centro of 6mm Villabo con centro of 6mm Villabo	es pard™ prock Pink® Wall 65 (66 (coard™ es coard™ es pard™ Pink®	F -/12 ra Batts R2.0 (56) (58) (58) F -/12 ra Batts	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 63 (55) 63 (56) ire Resistance 20/120 and 60 ated from both Reports FAR 3348	E Level D/60/60 Sides Report Day Design 3094-45 Note: Impact Sound Resistant - Discontinuous Construction E Level D/60/60 Sides Report
TSW535 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	 2 layers of Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth (mm) 70 160mm cavity 90 200mm cavity 1 layer of 1 Timber stu Minimum Timber stu 1 layer of 1 fireshield ca The order of Stud Depth 70 1 layer of 1 Stud Depth Timber stu 1 layer of 1 Stud Depth Monimum Timber stu 1 layer of 1 	f 16mm fires ud framing al 20mm air ga ud framing al 6mm fireshiel in be substitut f wall linings Wall Width (mm) 214 254 6mm fireshiel ud framing al 6mm fireshiel in be substitut f wall linings Wall Width (mm) 204	hield maximum 6 p maximum 6 d plus 1 layer of ted with mult can be revers Sound Insulat Rw (Rw + Ctr) 55 (46) 56 (47) d plus 1 layer of maximum 6 p maximum 6 p maximum 6 p ted with mult can be revers Sound Insulat Rw (Rw + Ctr) No insulation 54 (45)	00mm centro of 6mm Villabo tishield or tru sed ion Pink [®] Batts Wall R1.5 63 (55) 64 (57) 64 (57) of 6mm Villabo 00mm centro of 6mm Villabo comm centro of 6mm Villabo tishield or tru sed ion Pink [®] Batts Wall R1.5 62 (54)	es oard™ irock Pink [®] Wall 65 (66 (0ard™ es oard™ es oard™ irock Pink [®] Wall 63 (F -/12 ra Batts R2.0 (56) (58) (58) F -/12 ra Batts R2.0 (54)	ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 63 (55) 63 (56) ire Resistance 20/120 and 60 ated from both Reports FAR 3348 Polyester R1.5 61 (53)	E Level D/60/60 Sides Report Day Design 3094-45 Note: Impact Discontinuous Construction E Level D/60/60 Sides Report Day Design 3094-45 Note: Impact

INTERNAL TIMBER FRAMED WALLS

TSW320	 1 layer of 	13mm <mark>fire</mark> sh	ield			_	ico Docietado		
	Staggered	d timber stuc	ls at maximur	m 600mm ce	ntres	F	The Resistance	elevel	
	(300mm s	staggered)				-/(60/60 and 30	/30/30	
	• 1 layer of	13mm firesh	ield			rated from both sides			
A RINGE						Reports			
	fireshield ca	n be substitu	ted with mult i	ishield or tru r	ock		FAR 3348		
	Stud Depth	Wall Width	Sound Insulat	ion.					
	(mm)	(mm)	Rw (Rw + Ctr)		Diala®	Datta	Delevator		
			insulation	Wall R1.5	Wall	R2.0	R1.5	Report	
	70 on	116	77 (71)	45 (70)	17(20)	AE (20)	Day Design 3094-45	
	90mm plate	110	57 (51)	4) (50)	47 (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(50)	Note: Impact	
	90 on	146	38 (33)	46 (40)	48 ((41)	46 (40)	Sound	
	120mm plate					. ,		Resistant	
TSW321	• 1 layer of	13mm fire sh	ield						
1311321	Staggered	d timber stuc	ls at maximur	m 600mm ce	ntres	F	ire Resistance	e Level	
	(300mm s	staggered)				-/9	90/90 and 30	/30/30	
	 2 layers of 	f 13mm <mark>fire</mark> s	hield			r:	ated from botl	n sides	
							Reports		
	fireshield ca	in be substitu	ted with mult i	ishield or tru r	ock		FAR 3348		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	ion)					
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report	
	70 on 90mm plate	129	42 (37)	50 (43)	54 ((45)	50 (43)	Day Design 3094-45	
	90 on	159	43 (38)	51 (45)	52 (46)	51 (45)	Note: Impact Sound Resistant	
								Resistone	
TSW322	• 2 layers o	f 13mm <mark>fire</mark> s	hield			_			
	• Staggered	d timber stuc	ls at maximur	n 600mm ce	ntres	F	ire Resistance	e Level	
	(300mm s	staggered)				-/12	20/120 and 90	0/90/90	
	 2 layers of 	f 13mm fires	hield			L.	ated from boti	n sides	
RIMAN							Reports		
	fireshield ca	n be substitu	ted with mult i	ishield or tru r	ock				
	Stud Depth	Wall Width	Sound Insulat	ion					
	(mm)	(mm)	Rw (Rw + Ctr)	Pink [®] Batts	Pink®	Batts	Polvester		
			insulation	Wall R1.5	Wall	R2.0	R1.5	Report	
	70 on	142	46 (41)	54 (49)	55 (50)	54 (48)	Day Design 3094-45	
	90mm plate			/			/	Note: Impact	
	90 on 120mm plate	172	48 (42)	54 (50)	55 ((51)	54 (50)	Sound Resistant	
TSW520	• 1 layer of	13mm <mark>fire</mark> sh	ield						
1311920	• Staggered	d timber stuc	ls at maximur	m 600mm ce	ntres	F	ire Resistance	e Level	
	(300mm s	staggered)				-/(60/60 and 30	/30/30	
	 1 layer of 1 	3mm fire shie	ld plus 1 layer o	ot 6mm Villabo	blec	r:	ated from bot	n sides	
L RIHTMAN	ficeshield ea	o bo cubstitu	tod with mult i	ishiold of true	ock		Reports		
	The order of	f wall linings	can be revers	sed	UUK		FAR 3348		
	Stud Depth	Wall Width	Sound Insulat	ion:					
	(mm)	(mm)	Rw (Rw + Ctr)		D : . @	Datt	Dut	1	
			No insulation	PINK [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report	
								1	
	70 on	100	10 (7 C)	EQ (47)	E4 (4.4)	EQ (47)	Day Design	
	70 on 90mm plate	122	42 (36)	50 (43)	51 (44)	50 (43)	Day Design 3094-45 Note: Impact	

90 on

120mm plate

152

43 (37)

51 (45)

52 (46)

51 (44)

Sound Resistant

TSW522	 1 layer of 13mm fireshield plus 1 layer of 6mm Villaboard™ Staggered timber studs at maximum 600mm centres (300mm staggered) 1 layer of 13mm fireshield plus 1 layer of 6mm Villaboard™ fireshield can be substituted with multishield or trurock The order of wall linings can be reversed 							• Level /60/60 h sides	
	The order of Stud Depth	f wall linings Wall Width	Can be revers	sed tion	· · · · · · · · · · · · · · · · · · ·				
			No	Pink [®] Batts	Pink®	Batts	Polyester	Report	
	70 on 90mm plate	128	46 (39)	54 (47)	55 ((48)	54 (47)	Day Design 3094-45	
	90 on 120mm plate	158	47 (40)	54 (49)	56 ((50)	54 (49)	Note: Impact Sound Resistant	
TS1//225	• 1 layer of	16mm fire sh	ield						
	 Staggered (300mm s 1 layer of 	d timber stud staggered) 16mm <mark>fire</mark> sh	ls at maximur ield	m 600mm ce	ntres	F -/9 ra	ire Resistance 30/90 and 60, ated from both Reports	: Level /60/60 n sides	
	fireshield ca	in be substitu	ited with mul	tishield or tru	Irock		FAR 3348		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr	tion)					
			No	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report	
	70 on 90mm plate	122	39 (32)	47 (40)	48	(41)	47 (40)	Day Design 3094-45	
	90 on 120mm plate	152	41 (35)	47 (42)	49	(43)	47 (42)	Sound Resistant	
TSW326	• 1 layer of	16mm fire sh	ield						
	 Staggered timber studs at maximum 600mm centres (300mm staggered) 					-/120/120 and 60/60/60			
	• 2 layers o	f 16mm <mark>fire</mark> s	hield			-/12 ra	20/120 and 60 ated from both	0/60/60 n sides	
	fireshield ca	in he substiti	ited with mul	tishield or tru	irock		FAR 3348		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	tion					
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] Wall	Batts R2.0	Polyester R1.5	Report	
	70 on 90mm plate	138	44 (39)	51 (46)	52 ((47)	51 (45)	Day Design 3094-45	
	90 on 120mm plate	168	45 (40)	52 (47)	53 (48)	51 (47)	Sound Resistant	
SW 527	• 2 layers o	f 16mm <mark>fire</mark> s	hield						
TSW327	 2 layers or Staggered 	f 16mm fire s J timber stud	hield Is at maximur	m 600mm ce	ntres	F	ire Resistance	e Level	
TSW327	 2 layers o Staggered (300mm s 2 layers o 	f 16mm fire s J timber stud staggered) f 16mm fire s	hield Is at maximur hield	m 600mm ce	ntres	F -/12	ire Resistance 0/120 and 120 ated from both	: Level /120/120 n sides	
TSW327	 2 layers o Staggered (300mm s) 2 layers o 	f 16mm fire s d timber stud staggered) f 16mm fire s	hield Is at maximur hield	n 600mm ce	ntres	F -/12	ire Resistance 0/120 and 120 ated from both Reports	: Level /120/120 n sides	
TSW327	 2 layers o Staggered (300mm s) 2 layers o 	f 16mm fires d timber stud staggered) f 16mm fires in be substitu	hield Is at maximur hield uted with mul i	n 600mm ce t ishield or tru	ntres	F -/12 ra	ire Resistance 0/120 and 120 , ated from both Reports FAR 3348	: Level /120/120 n sides	
	 2 layers or Staggered (300mm s) 2 layers or fireshield ca Stud Depth (mm) 	f 16mm fires d timber stud staggered) f 16mm fires n be substitu Wall Width (mm)	hield Is at maximur hield Ited with mul Sound Insulat Rw (Rw + Ctr	m 600mm ce tishield or tru tion	ntres	F -/12 ra	ire Resistance 0/120 and 120, ated from both Reports FAR 3348	e Level /120/120 n sides	
	 2 layers of Staggered (300mm s) 2 layers of fireshield ca Stud Depth (mm) 	f 16mm fires d timber stud staggered) f 16mm fires n be substitu Wall Width (mm)	hield is at maximur hield ited with mul Sound Insulat Rw (Rw + Ctr) No	m 600mm ce tishield or tru tion) Pink [®] Batts Wall P1 5	ntres	F -/12	ire Resistance 0/120 and 120, ated from both Reports FAR 3348 Polyester	e Level /120/120 n sides Report	
TSW327	 2 layers or Staggered (300mm s) 2 layers or fireshield ca Stud Depth (mm) 70 on 90mm plate 	f 16mm fires d timber stud staggered) f 16mm fires on be substitu Wall Width (mm) 154	hield s at maximur hield uted with mul Sound Insulat Rw (Rw + Ctr) No insulation 48 (42)	tishield or tru tion) Pink [®] Batts Wall R1.5 54 (50)	ntres rock Pink [®] Wall 55	F -/12 ra Batts R2.0 (51)	ire Resistance 0/120 and 120 ated from both Reports FAR 3348 Polyester R1.5 54 (50)	Report Day Design 3094-45	

TSW524	 1 layer of 16mm fireshield Staggered timber studs at maximum 600mm centres (300mm staggered) 1 layer of 16mm fireshield plus 1 layer of 6mm Villaboard[™] fireshield can be substituted with multishield or trurock The order of wall linings can be reversed Stud Dopth Wall Width Sound Inculation 							e Level /60/60 n sides	
	Stud Depth Wall Width Sound Insulation (mm) (mm) Rw (Rw + Ctr)								
			No insulation	Pink [®] Batts Wall R1.5	Pink® E Wall F	Batts R2.0	Polyester R1.5	Report	
	70 on 90mm plate	128	43 (38)	50 (44)	52 (4	16)	50 (44)	Day Design 3094-45	
	90 on 158 45 (39) 51 (46) 5						51 (46)	Sound Resistant	
TSW526	• 1 layer of 1	6mm fire shiel	d plus 1 layer (of 6mm Villab	oard™				
	 Staggered (300mm si 1 layer of 1 	timber studs taggered) 6mm <mark>fire</mark> shiel	at maximum (d plus 1 layer (500mm centr of 6mm Villab	res oard™	F -/1:	Fire Resistance Level 120/120 and 60/60/60 rated from both sides		
	fire shield can be substituted with multi shield or tru rock The order of wall linings can be reversed						Reports FAR 3348		
	Stud Depth (mm)	Wall Width (mm)	Sound Insulat Rw (Rw + Ctr)	ion)					
			No insulation	Pink [®] Batts Wall R1.5	Pink [®] I Wall F	Batts R2.0	Polyester R1.5	Report	
	70 on 90mm plate	134	47 (40)	54 (48)	55 (5	50)	54 (48)	Day Design 3094-45	
	00.00	70 on 90mm plate 134 47 (40) 54 (48) 55 (50) 54 (48)						Note: Impact	

General Requirements

	Non-Fire Rated	Fire Rated
 Install control joints in timber framed walls: With plasterboard at 12m maximum intervals With fibre cement at 7.2m maximum intervals With tiles at 4.2m 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. Cover the gap with a moulding fastened to one edge. 	✓	✓
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.		\checkmark
Use bindex fire and acoustic sealant on all gaps and around perimeter.		\checkmark
Attach all fixtures to studs or purpose installed noggings/blocking. Wall anchors must not be fixed only to the plasterboard of fire rated walls.		✓

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

Framing



FIGURE 1 Internal Timber Frame Wall Layout

	Non-Fire Rated	Fire Rated
Framing members as per framing table or structural design up to 600mm maximum.	\checkmark	\checkmark
Use minimum 70x45mm or 90x35mm timber studs for load bearing walls.		\checkmark

Noggings are permitted to assist the fixing of services.
 Plumbing and electrical services must not protrude beyond the face of the studs.



Table 1 Wall Furring Channel Span Table

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

Furring Channels at 600mm maximum centres						
Wind Region	Ultimato	Serviceability Channel (FC18)		28 Ch	8mm Furring annel (FC28)	
	W _u (kPa) Deflection limited to Span/360	Span (mm)	Anchor Pull-out and Clip Demand (kN)	Span (mm)	Anchor Pull-out and Clip Demand (kN)	
	0.39	0.25	800	0.24	1140	0.32
REGION A	0.47	0.3	750	0.27	1070	0.38
	0.54	0.35	710	0.29	1030	0.42
	0.59	0.25	740	0.33	1010	0.45
REGION B	0.71	0.3	710	0.38	960	0.51
	0.83	0.35	680	0.42	920	0.57

1. Table based upon self weight and lateral pressures, intended for internal use only. Other loads such as shelf loads, loads from ceilings, or live loads have not been considered.

2. Table refers to Siniat Furring Channel of Base Metal Thickness (BMT) 0.42mm of grade G550 steel with Zincalume™ AM150 corrosion protection.

3. Framing calculations based upon 2-or-more spans and designed in accordance with AS/NZS 4600:2018 Cold Formed Steel Structures.

4. Wind pressures determined in accordance with AS/NZS 1170.2 Wind Actions.

5. Connections to clips must be checked with the Wall Clip Capacity Table.

6. Ultimate Limit State Load Case 1: 1.2G + Wu

7. Serviceability Limit State Load Case 1: G + Ws, with deflection limited to Span/360.

8. When furring channel track is used, the first anchor must be 600mm from the track. If no furring channel track is used, then the first anchor must be 150mm maximum from ends. Refer to Construction Details.

9. Anchors for head and base tracks at 600mm maximum centres and 100mm maximum from ends with minimum 0.5 kN shear capacity.

10. Clips may need to be spaced at closer intervals for impact applications.

11. Furring channels cannot be spliced, therefore the maximum wall height using furring channels is 6.0m. Maximum production lengths available are 6.0m.

12. The nominated lateral pressures and deflection limits must be checked for suitability for a specific project.

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.

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.	\checkmark	\checkmark
Horizontal Layout		
Stagger butt joints in single layer systems by 300mm minimum on adjoining sheets and on opposite sides of the wall.	\checkmark	\checkmark
Stagger butt joints in multilayer systems by 300mm minimum on adjoining sheets and between layers.	\checkmark	\checkmark
First layer butt joints must be backed by a stud or back-blocked.	\checkmark	\checkmark
Stagger recessed edges by 300mm minimum between layers.	\checkmark	\checkmark
Stagger recessed edges in single layer systems by 300mm minimum on opposite sides of the wall or alternatively, back by a nogging.		\checkmark
Vertical Layout		
Stagger butt joints in single layer systems by 300mm minimum on adjoining sheets and on opposite sides of the wall.	\checkmark	\checkmark
Stagger butt joints by 300mm minimum on adjoining sheets and between layers.	\checkmark	\checkmark
First layer butt joints must be backed by a nogging or back-blocked.	\checkmark	
First layer butt joints must be backed by a nogging.		\checkmark
Stagger recessed edges by 300mm minimum between layers.	\checkmark	\checkmark
Stagger recessed edges by 300mm minimum on opposite sides of the wall for single layer systems	\checkmark	\checkmark

> Install plasterboard sheets horizontally when practical 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.	\checkmark	\checkmark
Leave or remove the over-driven screw and patch.		
Laminating screws can be used to fix butt joints in the second and third layer.	\checkmark	\checkmark
Fastener and Adhesive Method		
Apply mastagrip Stud Adhesive after the frame is clean, dry, and free from	./	
grease, dust and other contaminants.	•	
Apply masta grip daubs 200mm minimum from screws and plasterboard	./	
edges.	•	
Fastener Only Method		
Use the 'Screw Only Method' in tiled or fire rated areas. Stud adhesive is not	1	1
permitted.	•	•

The 'Fastener and Adhesive Method' is recommended for non-fire rated applications. masta**grip** will:

- > Minimise screw popping
- Reduce the number of screw heads that may show in glancing light
- > Assist in compensating for frame irregularities
- > Reduce rattle noise when applied to bracing straps.

Fastener Type and Minimum Size for the Installation of Plasterboard to Softwood Timber

Plasterboard Thickness	1st Layer	2nd Layer	3rd Layer
6.5mm	2.8 x 30mm galvanised nail or 2.8 x 25mm ring shank nail or 6g x 25mm screw	2.8 x 40mm galvanised nail or 2.8 x 30mm ring shank nail or 6g x 32mm screw	-
10mm	2.8 x 40mm galvanised nail or 2.8 x 30mm ring shank nail or 6g x 32mm screw	2.8 x 50mm galvanised nail or 6g x 41mm screw *	-
13mm	2.8 x 40mm galvanised nail or 2.8 x 30mm ring shank nail or 6g x 41mm screw	2.8 x 50mm galvanised nail or 7g x 50mm screw *	3.75 x 75mm galvanised nail or 8g x 65mm screw *
16mm	2.8 x 50mm galvanised nail or 7g x 45mm screw	3.15 x 65mm galvanised nail or 8g x 60mm screw *	3.75 x 75mm galvanised nail or 8g x 75mm screw *

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

Also refer to the Siniat Plasterboard installation Guide for minimum screw lengths for non-fire rated walls.

FIGURE 2 Internal Non-Fire Rated - 1 Layer Horizontal

Fastener and Adhesive Method



Fixing Pattern Table

Sheet Width	Fixing Pattern		
600mm	FAAF		
900mm	FAAAF		
1200mm	FAAAAF		
1350mm	FAAAAAF		
1400mm	FAAAAAF		

F = Screw or nail

A = Adhesive daub

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard	Maximum Wall Stud Spacing			
Thickness	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.





Fastener Only Method



Fixing Pattern Table

Sheet Width	Fixing Pattern	Nail Fixing Pattern	Double Nail Fixing Pattern
600mm	S S S (3)	N N N N (4)	N Dn N (3)
900mm	S S S S (4)	N N N N N (5)	N Dn Dn N (4)
1200mm	S S S S S (5)	N N N N N N (6)	N Dn Dn Dn N (5)
1350mm	S S S S S S (6)	N N N N N N N (7)	N Dn Dn Dn Dn N (6)
1400mm	S S S S S S (6)	N N N N N N N (7)	N Dn Dn Dn Dn N (6)

S = Screw

N = Nail

Dn = Double nail

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard	Maximum Wall Stud Spacing			
Thickness	600mm	450mm	400mm	300mm
10mm	0.75	1.05	1.15	1.55
13mm	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.

FIGURE 4 Internal Non-Fire Rated - 2 Layers Horizontal + Horizontal

Fastener Only Method



Fixing Pattern Table for 2nd Layer

Sheet Width	Fixing Pattern	Nail Fixing Pattern	Double Nail Fixing Pattern
600mm	SSS(3)	N N N N (4)	N Dn N (3)
900mm	S S S S (4)	N N N N N (5)	N Dn Dn N (4)
1200mm	S S S S S (5)	N N N N N N (6)	N Dn Dn Dn N (5)
1350mm	S S S S S S (6)	N N N N N N N (7)	N Dn Dn Dn Dn N (6)
1400mm	S S S S S S (6)	N N N N N N N (7)	N Dn Dn Dn Dn N (6)

S = Screw

N = Nail

Dn = Double nail

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard	M	aximum Wal	l Stud Spaci	ng
Thickness	600mm	450mm	400mm	300mm
10mm	0.75	1.05	1.15	1.55
13mm	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.





Fixing Pattern Table

Sheet Width	Fixing Pattern		
600mm	SAAS		
900mm	SAAAS		
1200mm	SAAAAS		
1350mm	SAAAAAS		
1400mm	SAAAAAS		

S = Screw

A = Adhesive daub

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard	Maximum Wall Stud Spacing			
Thickness	600mm	450mm	400mm	300mm
10mm	0.95	1.30	1.45	1.95
13mm	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.

FIGURE 6 Fire Rated 1 Layer - Horizontal

Fastener 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	Nail Fixing Pattern	Double Nail Fixing Pattern
600mm	S S S (3)	N N N N N (5)	N Dn N (3)
900mm	S S S S (4)	N N N N N N N (7)	N Dn Dn N (4)
1200mm	S S S S S (5)	N N N N N N N N N (9)	N Dn Dn Dn N (5)
1350mm	S S S S S S (6)	N N N N N N N N N N (10)	N Dn Dn Dn Dn N (6)
1400mm	S S S S S S (6)	N N N N N N N N N N N (11)	N Dn Dn Dn Dn N (6)

S = Screw

N = Nail

Dn = Double nail

Maximum Ultimate Limit State Wind Load Table (kPa)

Plasterboard	M	aximum Wal	l Stud Spaci	ng
Thickness	600mm	450mm	400mm	300mm
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.



Sheet.



Screw Only Method



Fixing Pattern Table for 2nd Layer

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	Maximum Wall Stud Spacing			ng
Thickness	600mm	450mm	400mm	300mm
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.

FIGURE 8 Fire Rated 3 Layers - Horizontal + Horizontal + Horizontal

Screw Only Method



Fixing Pattern Table for 2nd Layer

Sheet Width	Fixing Pattern		
600mm	SSS(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	Maximum Wall Stud Spacing			
Thickness	600mm	450mm	400mm	300mm
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.



FIGURE 9 Fire Rated - 1 Layer Horizontal





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	Maximum Wall Stud Spacing			
Thickness	600mm	450mm	400mm	300mm
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.

FIGURE 10 Fire Rated 2 Layers - Horizontal + Horizontal

Screw Only Method over furring channels



Fixing Pattern Table

Sheet Width	Fixing Pattern		
600mm	SSS(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	M	əximum Wəl	l Stud Spaci	ng
Thickness	600mm	450mm	400mm	300mm
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.





Non-Fire Rated Head and Base Details for Timber Stud Walls

Technical Advice 1300 724 505 siniat.com.au

Fire Rated Head and Base Details for Timber Stud Walls



Section







Fire Rated Internal Stud Walls

Fire Rated Internal Stud Walls









Fire Rated and Non-Fire Rated Typical Door Jamb Details

