



Regulatory information report




Increased FRL of vertical Speedpanel walls

Sponsor: Speedpanel Holdings Pty Ltd

Report number: FAS220018 Revision: RIR1.2

Issued date: 30 June 2023 Expiry date: 31 July 2027

Quality management

Version	Date	Information about the report			
RIR1.1*	Issue: 06 Jul 2022	Reason for issue	Initial issue		
			Prepared by	Reviewed by	Authorised by
		Name	Mohammed Mutafi	Mahmoud Akl	Mahmoud Akl
RIR1.2*	Issue: 30 Jun 2023	Reason for issue	Update to include reference to NCC 2022.		
	Expiry: 31 Jul 2027	Name	Chad McLean	Yomal Dias	Yomal Dias
		Signature			

*Revision RIR1.0 was skipped to match with the current revision of the referenced assessment report.

Executive summary

This report contains the minimum information required for regulatory compliance and refers to the referenced assessment report FAS220018 R1.2.

The analysis conducted in the referenced assessment report documents the findings of the assessment undertaken to determine the expected increased fire resistance level (FRL) of 78 mm thick Speedpanel walls when installed in conjunction with fire rated plasterboards directly fixed, fixed using a top hat or cladded on steel frame on each side or one side only. Also, the assessment addresses the increased FRL of 78 mm, 64 mm and 51 mm thick dual Speedpanel wall systems – in accordance with AS 1530.4:2014.

The analysis in section 5 in this report found that the proposed systems, together with the described variations, are expected to achieve FRL as shown in Table 1 in accordance with AS 1530.4:2014.

Table 1 Variations and assessment outcome

System type	Figure number	Speedpanel wall thickness (mm)	Maximum wall height (m)	FRL (from either direction)
Lined wall system	Figure 1 - Figure 18	78	6.0	-/180/180
Dual Speedpanel system	Figure 43 - Figure 44	51 and 78	5.0	-/180/180
	Figure 45 - Figure 46	64 and 64		
Lined wall system	Figure 19 - Figure 42	78	6.0	-/240/240
Dual Speedpanel system	Figure 47 - Figure 48	78 and 78	6.0	-/240/240

The variations and outcome of the referenced assessment report are subject to the limitations and requirements described in sections 2, 3 and 6 of this report. The results of this report are valid until 31 July 2027.

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1. Introduction

This report contains the minimum information sufficient for regulatory compliance and refers to the assessment report FAS220018 R1.2.

The analysis conducted in the referenced assessment report documents the findings of the assessment undertaken to determine the expected increased fire resistance level (FRL) of 78 mm thick Speedpanel walls when installed in conjunction with fire rated plasterboards directly fixed, fixed using a top hat or cladded on steel frame on each side or one side only. Also, the assessment addresses the increased FRL of 78 mm, 64 mm and 51 mm thick dual Speedpanel wall systems – in accordance with AS 1530.4:2014¹.

The referenced assessment report may be used as Evidence of Suitability in accordance with the requirements of the relevant National Construction Code (NCC) to support the use of the material, product, form of construction or design as given within the scope of the referenced assessment report. It also references test evidence for meeting deemed to satisfy (DTS) provisions of the NCC as applicable to the assessed systems.

The referenced assessment was carried out at the request of Speedpanel Holdings Pty Ltd.

The sponsor details are included in Table 2.

Table 2 Sponsor details

Sponsor	Address
Speedpanel Holdings Pty Ltd	421 Dorset Road Bayswater VIC 3153 Australia

2. Framework for the assessment

2.1 Assessment approach

An assessment is an opinion about the expected performance of a component or element of structure if it was subject to a fire test.

No specific framework, methodology, standard or guidance documents exists in Australia for doing these assessments. We have therefore followed the 'Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence' prepared by the Passive Fire Protection Forum (PFPF) in the UK in 2021².

This guide provides a framework for undertaking assessments in the absence of specific fire test results. Some areas where assessments may be offered are:

- Where a modification is made to a construction which has already been tested
- The interpolation or extrapolation of results of a series of fire resistance tests, or utilisation of a series of fire test results to evaluate a range of variables in a construction design or a product
- Where, for various reasons – eg size or configuration – it is not possible to subject a construction or a product to a fire test.

Assessments will vary from relatively simple judgements on small changes to a product or construction through to detailed and often complex engineering assessments of large or sophisticated constructions.

The referenced assessment uses established empirical methods and our experience of fire testing similar products to extend the scope of application by determining the limits for the design based on

¹ Standards Australia, 2014, Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests for elements of construction, AS 1530.4:2014, Standards Australia, NSW.

² Passive Fire Protection Forum (PFPF), 2021, Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence, Passive Fire Protection Forum (PFPF), UK.

the tested constructions and performances obtained. The assessment is an evaluation of the potential fire resistance performance if the elements were to be tested in accordance with AS 1530.4:2014.

This assessment has been written in accordance with the general principles outlined in EN 15725:2010³ for extended application reports on the fire performance of construction products and building elements.

The referenced assessment has been written using appropriate test evidence generated at accredited laboratories to the relevant test standard. The supporting test evidence has been deemed appropriate to support the manufacturer's stated design.

2.2 Compliance with the National Construction Code

This assessment report has been prepared to meet the evidence of suitability requirements of the NCC 2022⁴ under A5G3 (1) (d). It references test evidence for meeting deemed to satisfy (DTS) provisions of the NCC under A5G5 for fire resistance level that apply to the assessed systems based on Specifications 1 and 2 for fire resistance for building elements.

This assessment report may also be used to demonstrate compliance with the requirements for evidence of suitability under the relevant sections of previous versions of the NCC.

2.3 Declaration

The 'Guide to undertaking technical assessments of the fire performance of construction products based on fire test evidence' prepared by the PFPF in the UK requires a declaration from the client. By accepting our fee proposal on 28 January 2022, Speedpanel Holdings Pty Ltd confirmed that:

- To their knowledge, the component or element of structure, which is the subject of the referenced assessment, has not been subjected to a fire test to the standard against which the referenced assessment is being made.
- They agree to withdraw the referenced assessment from circulation if the component or element of structure is the subject of a fire test by a test authority in accordance with the standard against which the referenced assessment is being made and the results are not in agreement with the referenced assessment.
- They are not aware of any information that could adversely affect the conclusions of the referenced assessment and – if they subsequently become aware of any such information – they agree to ask the assessing authority to withdraw the assessment.

3. Limitations of the referenced assessment

- The scope of the referenced assessment report is limited to an assessment of the variations to the tested systems described in section 4.3.
- The referenced assessment report details the methods of construction, test conditions and assessed results that are expected if the systems were tested in accordance with AS 1530.4:2014.
- The referenced assessment is applicable to wall systems exposed to fire from either side in accordance with the requirements of AS 1530.4:2014 where vertical elements must be exposed to heat from the direction required to resist fire exposure.
- The referenced assessment report is only valid for the assessed system/s and must not be used for any other purpose. Any changes with respect to size, construction details, loads, stresses, edge or end conditions – other than those identified in the referenced assessment report – may invalidate the findings of the referenced assessment. If there are changes to the system, a reassessment will need to be done by an Accredited Testing Laboratory (ATL) that is accredited to the same nominated standards of the referenced assessment report.

³ European Committee for Standardization, 2010, Extended application reports on the fire performance of construction products and building elements, EN 15725:2010, European Committee for Standardization, Brussels, Belgium.

⁴ National Construction Code Volumes One and Two - Building Code of Australia 2022, Australian Building Codes Board, Australia

- The documentation that forms the basis for the referenced assessment report is listed in Appendix A and Appendix B of the referenced assessment report.
- The referenced assessment report has been prepared based on information provided by others. Warringtonfire has not verified the accuracy and/or completeness of that information and will not be responsible for any errors or omissions that may be incorporated into the referenced assessment report as a result.
- The referenced assessment is based on the proposed systems being constructed under comprehensive quality control practices and following appropriate industry regulations and Australian Standards on quality of materials, design of structures, guidance on workmanship and expert handling, placing and finishing of the products on site. These variables are beyond the control and consideration of the referenced assessment report.

4. Description of the specimen and variations

4.1 System description

The referenced assessment makes reference to test reports BWA 2286900.5, EWFA 2848300.2 and EWFA 2736002.1 being tests of Speedpanel wall systems tested in accordance with AS 1530.4:2005⁵.

The referenced assessment also makes reference to test report FSV0562 being test on a 78 mm thick Speedpanel partially lined with 13 mm fire rated plasterboard on each side and partially lined with 10 mm plasterboard. The test was conducted in accordance with AS 1530.4:1997⁶.

4.2 Referenced test data

The assessment of the variation to the tested systems and the determination of the expected performance is based on the results of the fire tests documented in the reports summarised in Table 3. Further details of the tested systems are included in Appendix B of the referenced assessment report.

Table 3 Referenced test data

Report number	Test sponsor	Test date	Testing authority
FSV0562	Speedwall Building Products Pty Ltd	26 March 1998	CSIRO
BWA 2286900	Speedpanel Vic P/L Pty Ltd	18 August 2008	Warringtonfire Australia (Previously known as Bodycote Warringtonfire)
EWFA 2736002.1	Speedpanel Vic P/L Pty Ltd	13 July 2012	Warringtonfire Australia (Previously known as Exova Warringtonfire)
EWFA 2848300.2	Speedpanel Vic P/L Pty Ltd	29 May 2013	Warringtonfire Australia (Previously known as Exova Warringtonfire)

4.3 Variations to the tested systems

An identical system has not been subject to a standard fire test. We have therefore assessed the systems using baseline test information for similar systems. The variations to the tested systems – together with the referenced standard fire tests – are described in Table 4.

⁵ Standards Australia, 2005, Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests for elements of construction, AS 1530.4:2005, Standards Australia, NSW.

⁶ Standards Australia, 1997, Methods for fire tests on building materials, components and structures – Part 4: Fire-resistance tests of elements of building construction, AS 1530.4:1997, Standards Australia, NSW.


Table 4 Variations to tested systems

Item	Reference test	Description	Variations
Lined wall system	FSV0562	In FSV 0652, a 77 mm thick Speedpanel wall was tested in accordance with AS 1530.4:1997. A 10 mm standard plasterboard was attached to both sides of the Speedpanel on one half of the wall and a 13 mm fire rated plasterboard was attached to both sides of the Speedpanel on the other half of the wall.	<ul style="list-style-type: none"> For an FRL of -/180/180, the proposed construction must be similar to the specimen tested in FSV0562 subject to the configurations shown in Figure 1 to Figure 18. For an FRL of -/240/240, the proposed construction must be similar to the specimen tested in FSV0562 subject to the configurations shown in Figure 19 to Figure 42.
Dual Speedpanel system	BWA2286900 EWFA2736002.1 EWFA 2848300.2	<p>In BWA2286900, the test specimen consisted of a nominal 2790 mm wide × 3000 mm high × 78 mm thick loadbearing wall made of vertically oriented 78 mm thick Speedpanel panels that incorporated a tongue and groove detail on their vertical edges. The panels were made from 0.42 mm galvanized mild steel.</p> <p>In EWFA 2736002.1, the test specimen consisted of a nominal 3010 mm wide × 2970 mm high × 51 mm thick loadbearing wall made of vertically orientated 255 mm wide × 51 mm thick Speedpanel panels that incorporated a tongue and groove detail on their vertical edges. The panels were made from 0.2 mm BMT (0.27 mm measured thickness) galvanised mild steel. Steel skin was joined on male and female sides with pop-rivets at nominal 50 mm centres.</p> <p>In EWFA 2848300.2, The test assembly comprised a nominal 3000 mm wide × 3000 mm high × 64 mm thick Speedpanel wall system.</p> <p>The tested configuration incorporated 64 mm thick Speedpanel panels vertically orientated to form a vertical wall system with 0.75 mm BMT perimeter track. The panels incorporate a tongue and groove detail on their vertical edges.</p> <p>The side and bottom tracks were made of 67 mm wide × 51 mm deep × 0.8 mm galvanised steel track.</p>	<ul style="list-style-type: none"> For an FRL of -/180/180, the proposed dual Speedpanel wall system consists of 1×51 mm Speedpanel and 1 × 78 mm Speedpanel with minimum 50 mm air gap as shown in Figure 43 and Figure 44 or 2× 64 mm Speedpanel as shown in Figure 45 and Figure 46. For an FRL of -/240/240, the proposed dual Speedpanel wall system consists of 2×78 mm Speedpanel with minimum 50 mm air gap as shown in Figure 47 and Figure 48.

4.4 Schedule of components

Table 5 outlines the schedule of components for the assessed systems

Table 5 Schedule of components of assessed systems

Item	Description			
Speedpanel systems:				
1	Name	Speedpanel® Panel-Vertical		
	(a) 78 mm	Material		0.4 mm BMT mild steel sheath with lightweight cementitious infill
		Size		Nominal 285 mm wide × nominal 78 mm thick panels as tested in EWFA 2286900.5
		Installation		Vertically installed Speedpanel walls up to 6.0 m in height
	(b) 64 mm	Material		0.4 mm BMT mild steel sheath with lightweight cementitious infill
		Size		Nominal 285 mm wide × nominal 64 mm thick panels as tested in EWFA 2848300.2
		Installation		Vertically installed Speedpanel walls up to 5.0 m in height
	(c) 51 mm	Material		0.4 mm BMT mild steel sheath with lightweight cementitious infill
		Size		Nominal 285 mm wide × nominal 51 mm thick panels as tested in EWFA 2736002.1
Installation		Vertically installed Speedpanel walls up to 5.0 m in height		
2	Name	C-track/Angles		
	Material	1.15 mm BMT (1.2 mm TCT) Galvanised mild steel		
	Size	<ul style="list-style-type: none"> • 55 × 82 × 55 mm (for 78 mm); • 55 × 68 × 55 mm (for 64 mm); • 55 × 56 × 55 mm (for 51 mm); or • 50 × 50 mm. 		
3	Name	Fixing – Track/Angle to Panel		
	Material	Min. 10g × 30 mm SDS		
	Installation	<ul style="list-style-type: none"> • Track (Item 2) to panels (Item 1) at max. 500 mm centres; or • Top track protection (Item 7) at max. 250 mm centres 		
4	Name	Fixing – Panel to Panel		
	Material	Min. 10g × 16 mm SDS		
	Installation	Into every panel joint at 1000 mm centres		
5	Name	Fixing - Masonry		
	Material	<ul style="list-style-type: none"> • Hilti HUS3-P 6 × 40/5 Screw Anchor; or • 6.5 mm × 50 mm Mushroom Head spike 		
	Installation	Fixed to masonry at max. 500 mm centres and in accordance with project engineer's specification		
6	Name	Fire rated sealant		
	Material	<ul style="list-style-type: none"> • HB Fuller Firesound Acrylic; 		

Item	Description		
		<ul style="list-style-type: none"> • Hilti CP606 Firestop Acrylic; • Promaseal A Acrylic; • Bostik Fireban One PU; or • Sikaflex 400 Fire PU 	
	Installation	Seal all gaps as shown	
Support and lining systems (including sealant and fixings)			
7	Name	Support System/s – Plasterboard	
	Material	Batten, top hat, stud (or like)	
	Installation	As per manufacturer's and site engineer's requirements	
8	Option a	Name	Plasterboard lining
		Material	13 mm fire rated plasterboard
		Installation	As per manufacturer's and site engineer's requirements
	Option b	Name	Plasterboard lining
		Material	16 mm fire rated plasterboard
		Installation	As per manufacturer's and site engineer's requirements

Figure 1 to Figure 48 show the assessed systems.

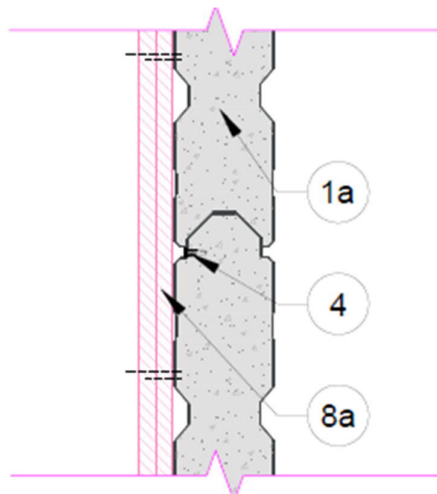


Figure 1 Plan view of 78 mm Speedpanel wall with direct fixed 2 × 13 mm fire rated plasterboard on one side – option 1

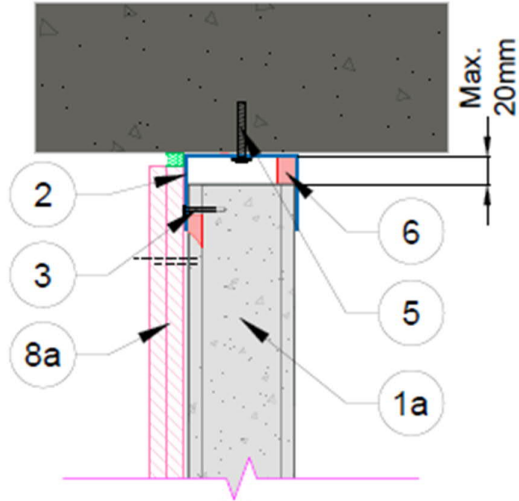


Figure 2 Section view of head details of option 1

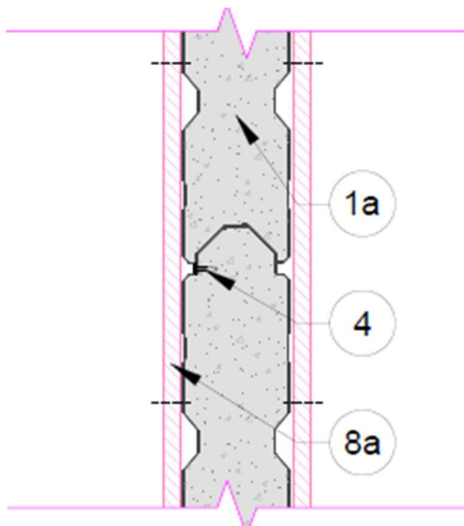


Figure 3 Plan view of 78 mm Speedpanel with direct fixed 13 mm fire rated plasterboard on each side – Option 2

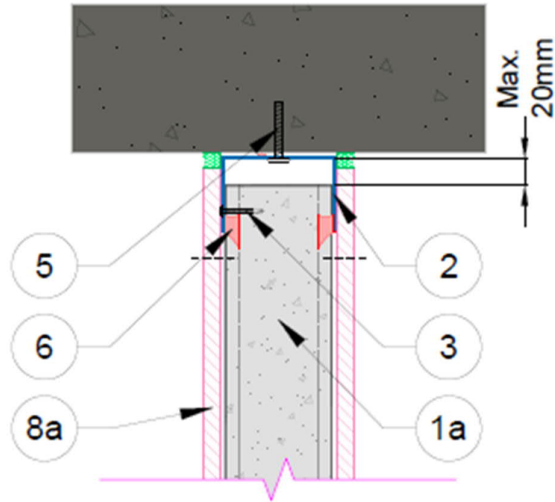


Figure 4 Section view of head details of option 2

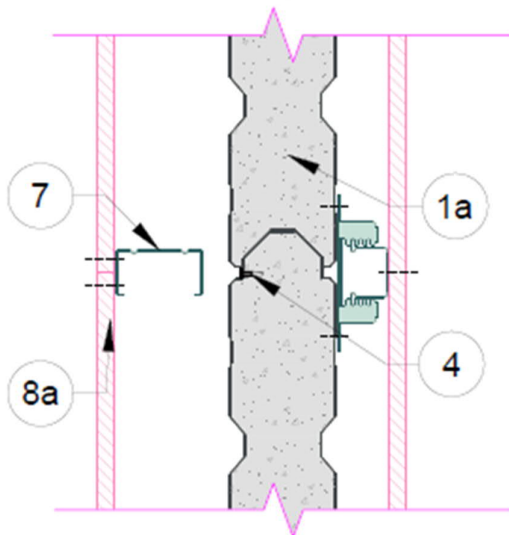


Figure 5 Plan view of 78 mm Speedpanel with 13 mm fire rated plasterboard fixed using top hat on side and plasterboard clad steel frame on the other side – option 3

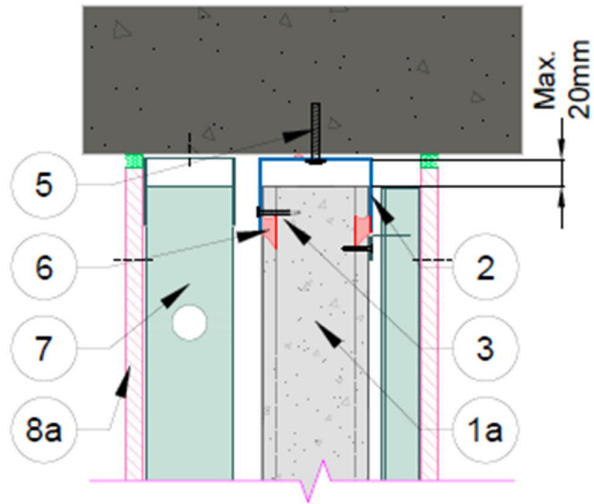


Figure 6 Section view of head details of option 3

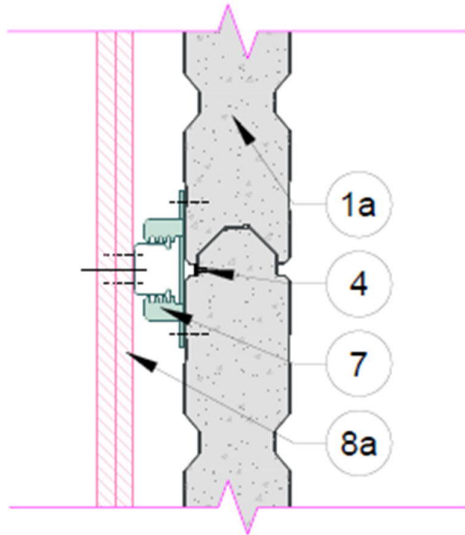


Figure 7 Plan view of 78 mm Speedpanel with 2 × 13 mm fire rated plasterboard fixed using top hat on one side only – option 4

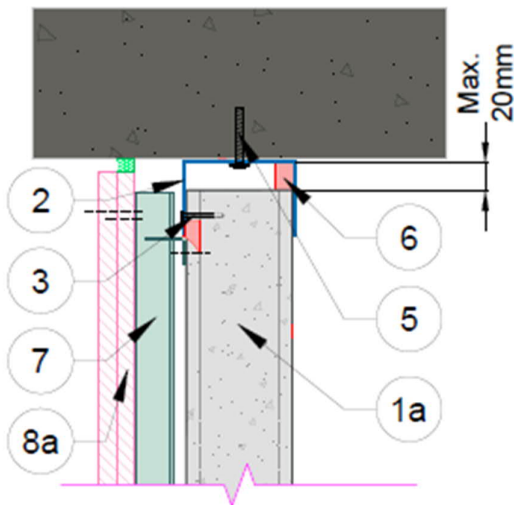


Figure 8 Section view of head details of option 4

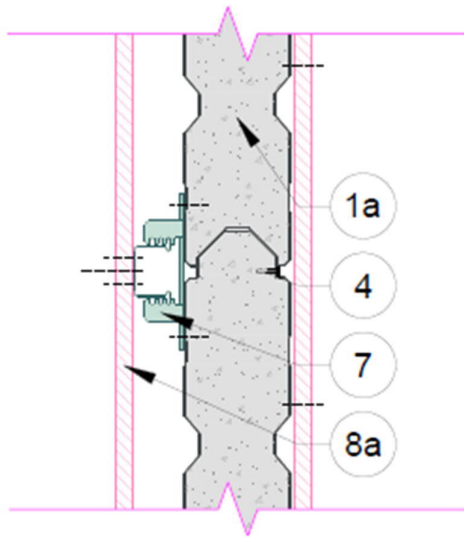


Figure 9 Plan view of 78 mm Speedpanel with direct fixed 13 mm fire rated plasterboard on one side and 13 mm fire rated plasterboard fixed using top hat on the side – option 5

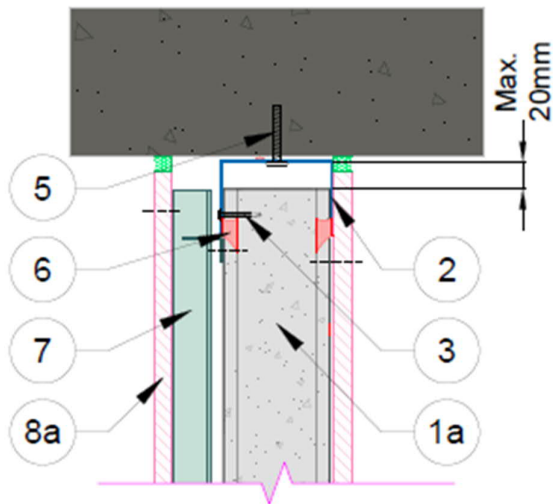


Figure 10 Section view of head details of option 5

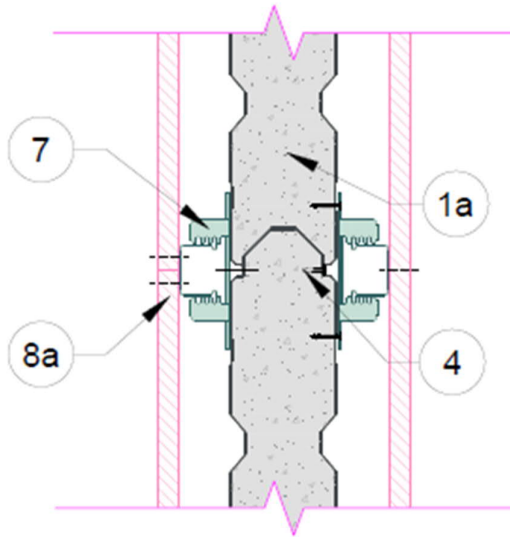


Figure 11 Plan view of 78 mm Speedpanel with 13 mm fire rated plasterboard fixed using top hat on both sides – option 6

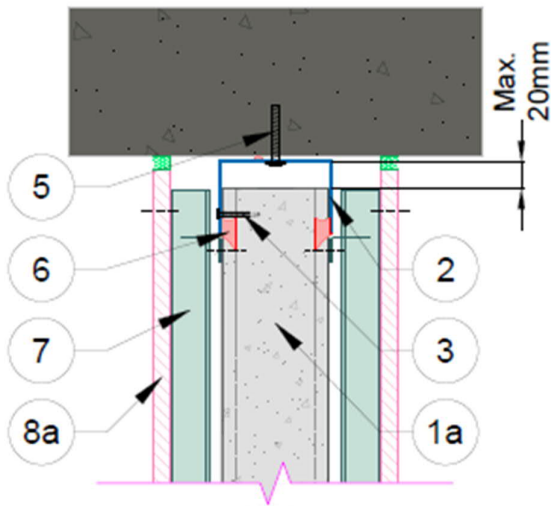


Figure 12 Section view of head details of option 6

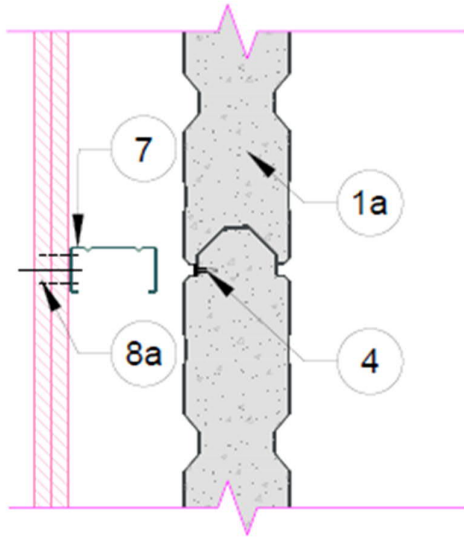


Figure 13 Plan view of 78 mm Speedpanel with 2 × 13 mm fire rated plasterboard attached to steel frame on one side only – option 7

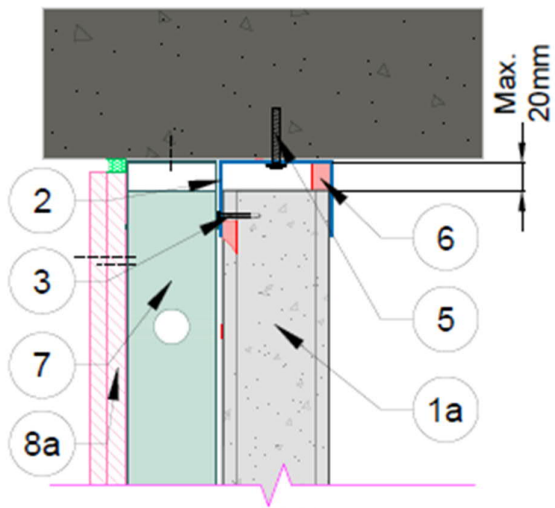


Figure 14 Section view of head details of option 7

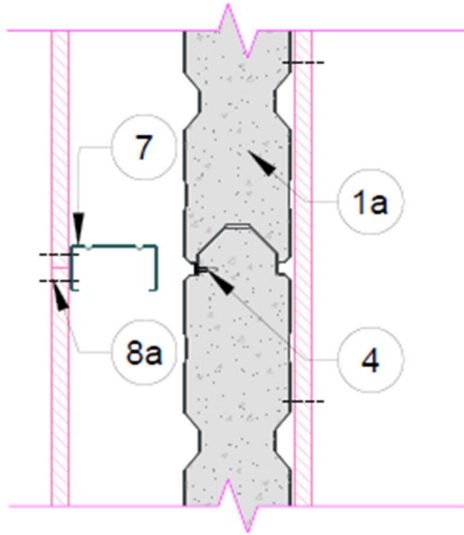


Figure 15 Plan view of 78 mm Speedpanel with direct fixed 13 mm fire rated plasterboard on one side and 13 mm fire rated plasterboard attached to steel frame on the other – option 8

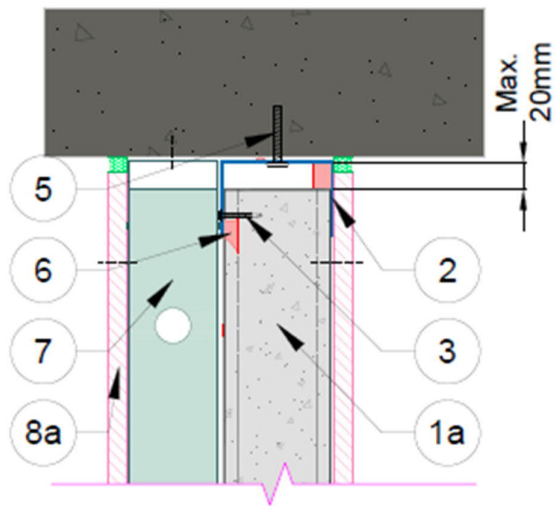


Figure 16 Section view of head details of option 8

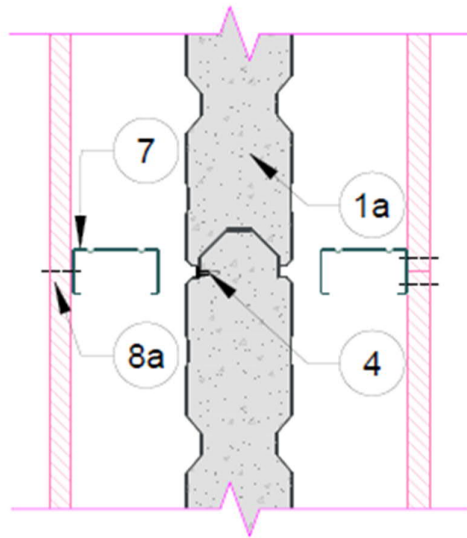


Figure 17 Plan view of 78 mm Speedpanel with 13 mm fire rated plasterboard attached to steel frame on both sides of the Speedpanel wall – option 9

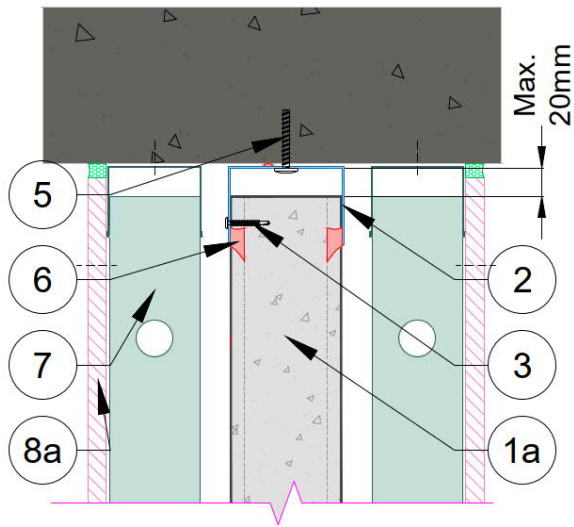


Figure 18 Section view of head details of option 9

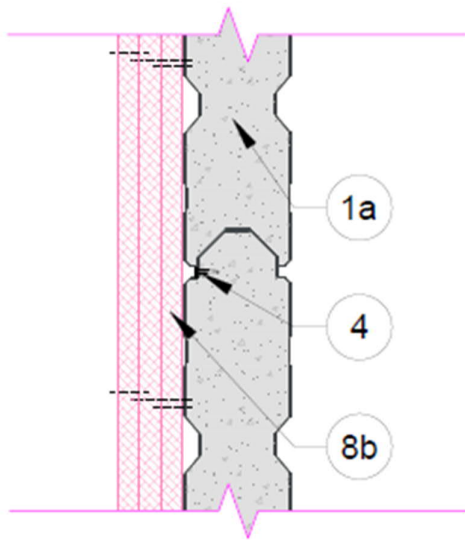


Figure 19 Plan view of 78 mm Speedpanel with direct fixed 3 × 16 mm fire rated plasterboard – option 1

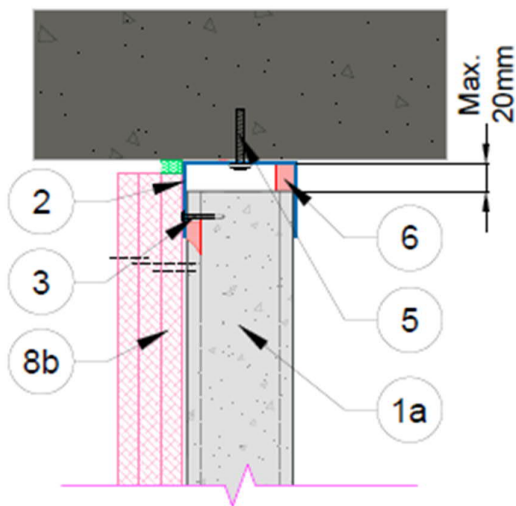


Figure 20 Section view of head details of option 1

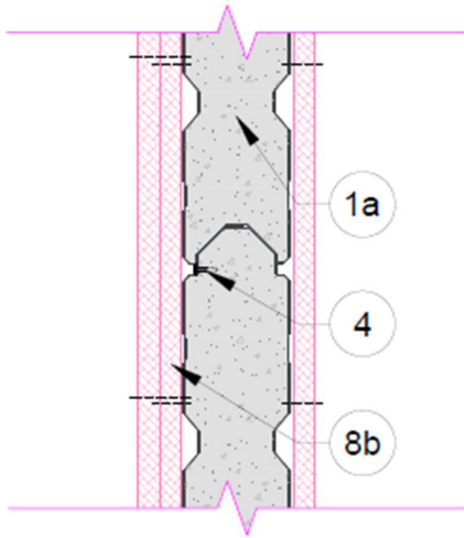


Figure 21 Plan view of 78 mm Speedpanel with direct fixed 2 × 16 mm fire rated plasterboard on one side and direct fixed 1 × 16 mm fire rated plasterboard on the other– option 2

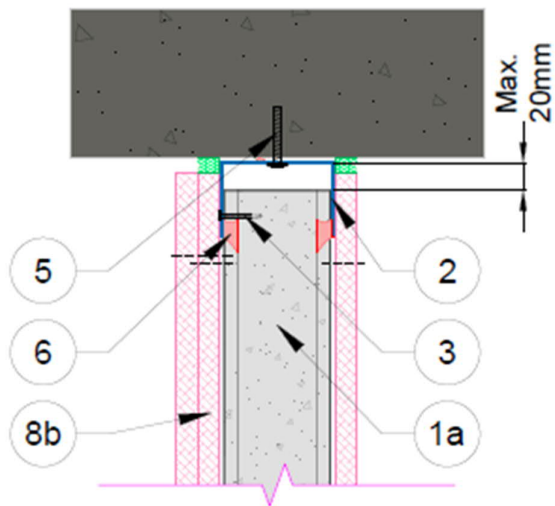


Figure 22 Section view of head details of option 2

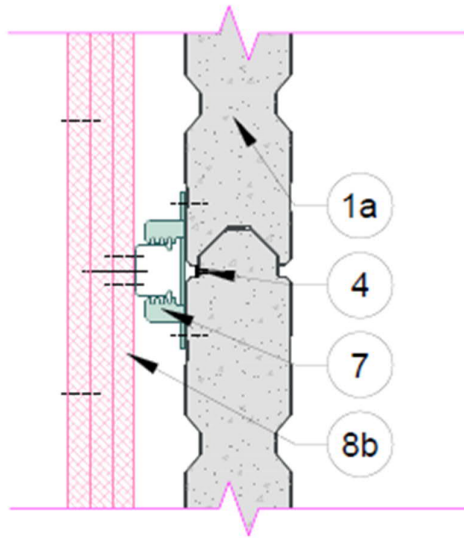


Figure 23 Plan view of 78 mm Speedpanel with 3 × 16 mm fire rated plasterboard fixed using top hats from one side only – option 3

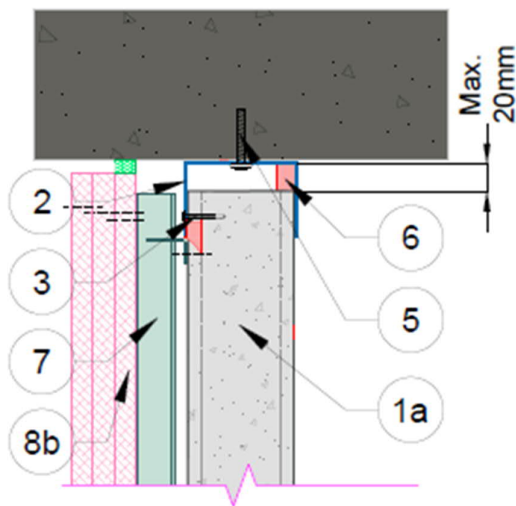


Figure 24 Section view of head details of option 3

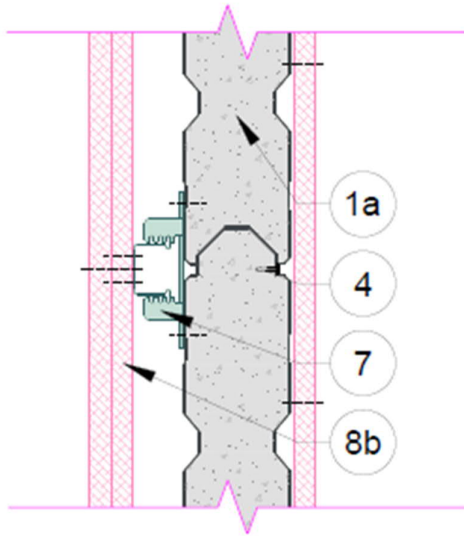


Figure 25 Plan view of 78 mm Speedpanel with direct fixed 1 × 16 mm fire rated plasterboard from one side and 2 × 16 mm fire rated plasterboard fixed using a top hat on the other – option 4

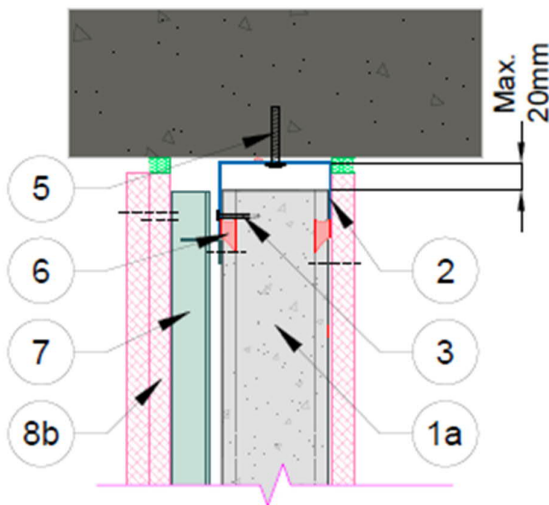


Figure 26 Section view of head details of option 4

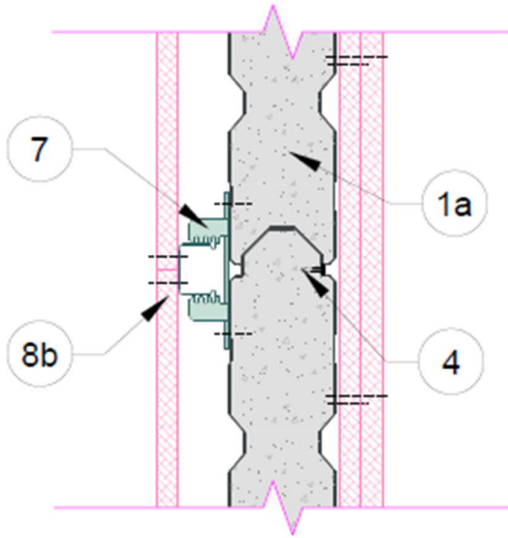


Figure 27 Plan view of 78 mm Speedpanel with direct fixed 2 × 16 mm fire rated plasterboard from one side and 1 × 16 mm fire rated plasterboard fixed using a top hat on the other – option 5

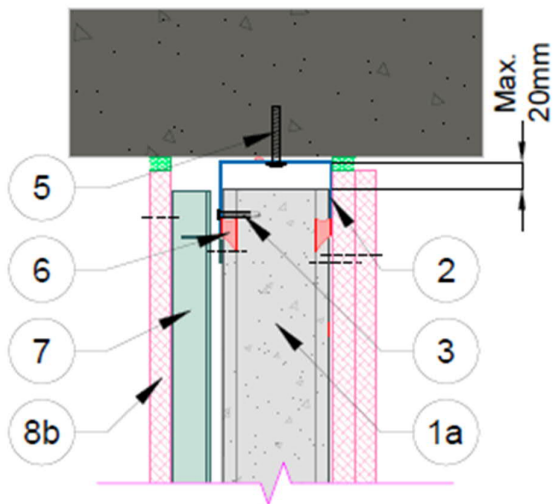


Figure 28 Section view of head details of option 5

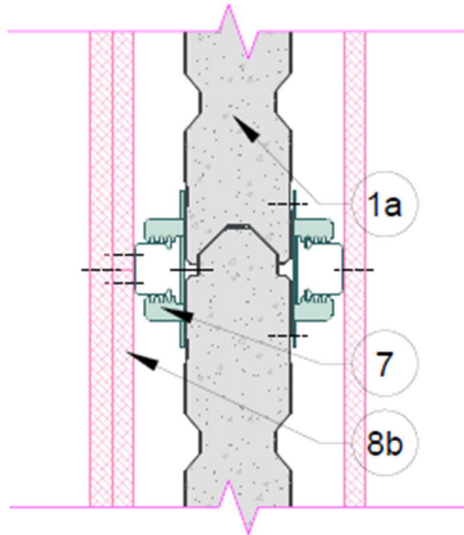


Figure 29 Plan view of 78 mm Speedpanel with 1 x 16 mm fire rated plasterboard fixed using a top hat from one side and 2 x 16 mm fire rated plasterboard fixed through a top hat on the other side – option 6

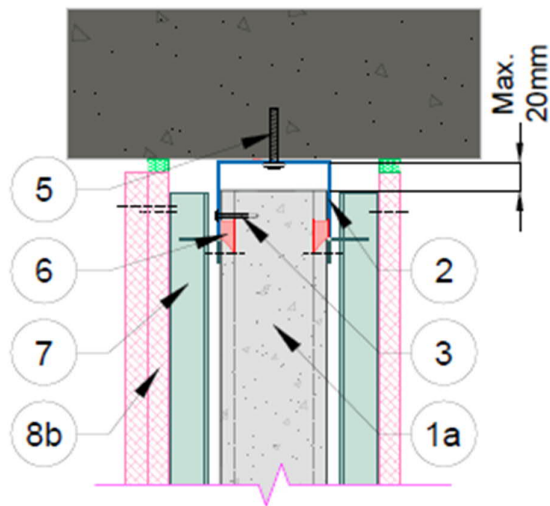


Figure 30 Section view of head details of option 6

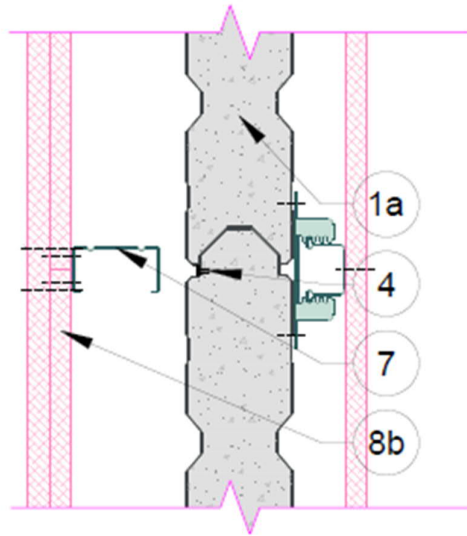


Figure 31 Plan view of 78 mm Speedpanel with 2 x 16 mm fire rated plasterboards attached to a steel frame from one side and 1 x 16 mm fire rated plasterboard attached using a top hat on the other side – option 7

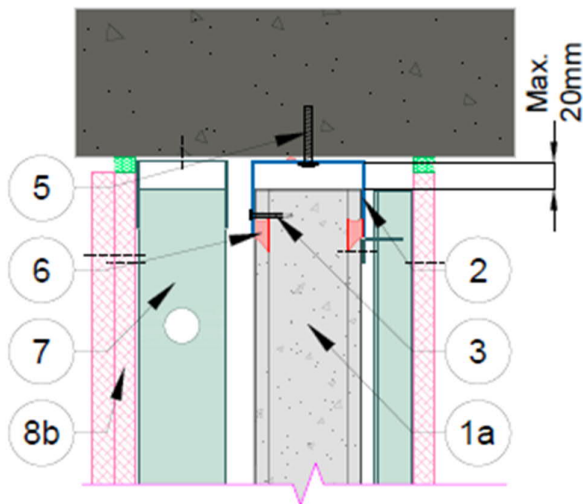


Figure 32 Section view of head details of option 7

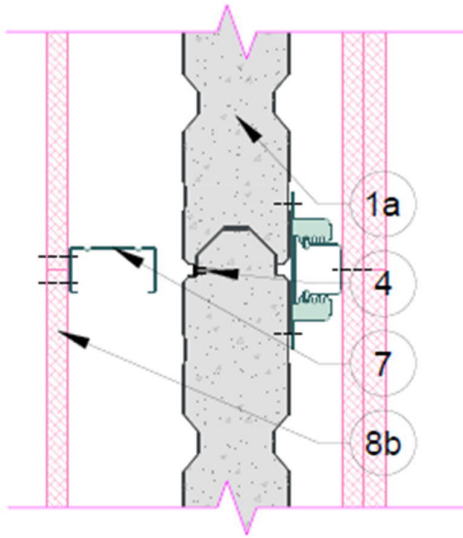


Figure 33 Plan view of 78 mm Speedpanel with 2 × 16 mm fire rated plasterboards attached to a steel frame from one side and 1 × 16 mm fire rated plasterboard attached using a top hat on the other side – option 8

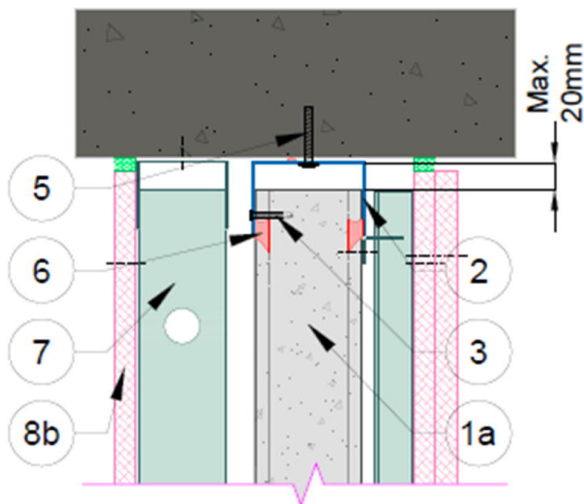


Figure 34 Section view of head details of option 8

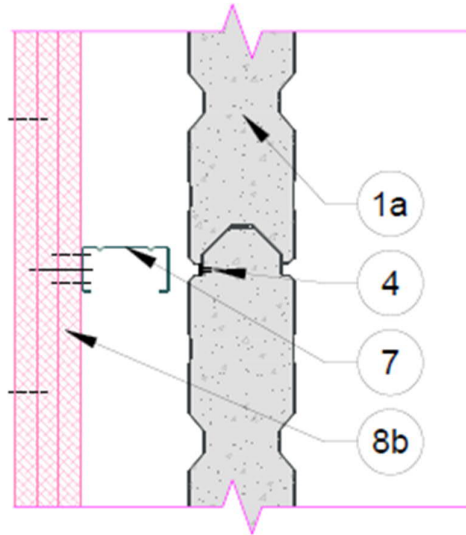


Figure 35 Plan view of 78 mm Speedpanel with 3 × 16 mm fire rated plasterboard cladded steel frame on one side – option 9

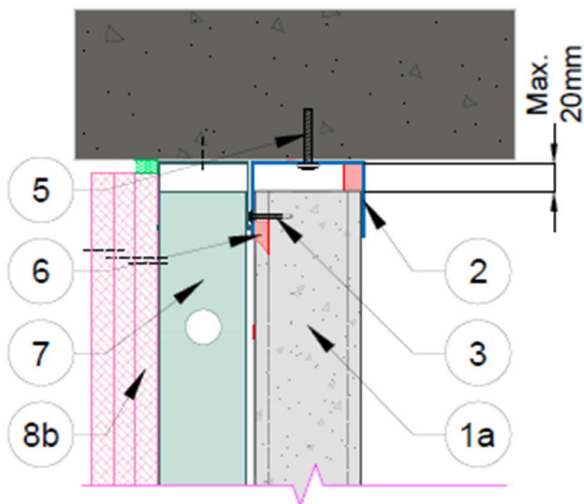


Figure 36 Section view of head details of option 9

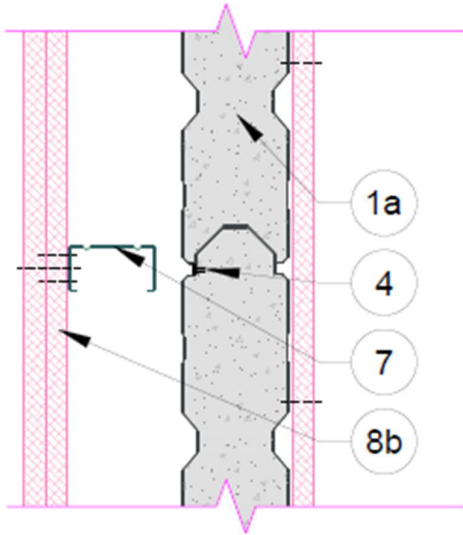


Figure 37 Plan view of 78 mm Speedpanel with direct fixed 1 × 16 mm fire rated plasterboard on one side and 2 × 16 mm fire rated plasterboard cladded steel frame on the other side – option 10

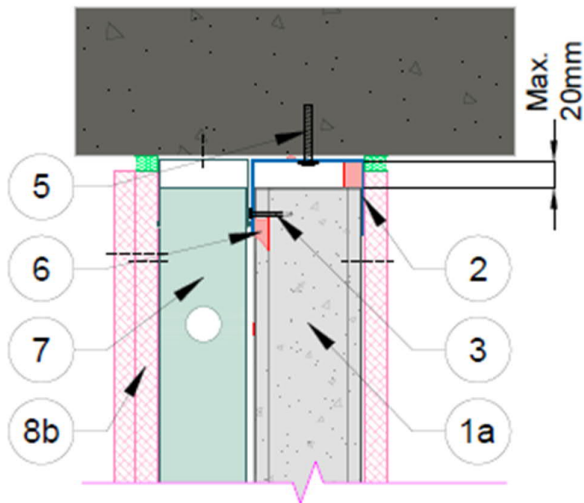


Figure 38 Section view of head details of option 10

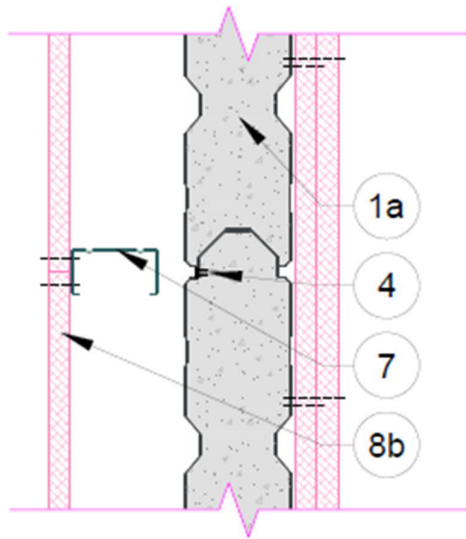


Figure 39 Plan view of 78 mm Speedpanel with direct fixed 2 × 16 mm fire rated plasterboards on one side and 1×16 mm fire rated plasterboard clad steel frame on the other side– option 11

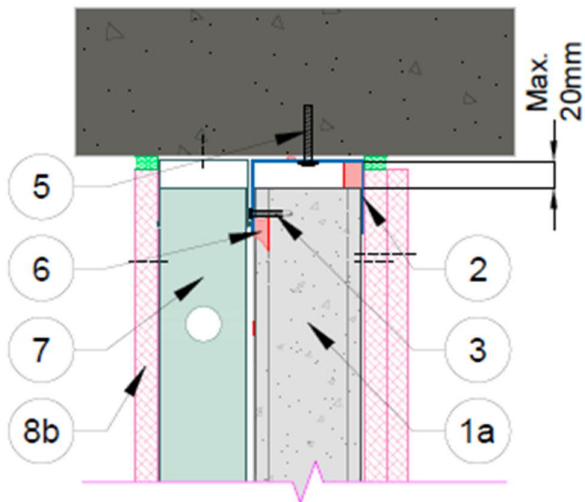


Figure 40 Section view of head details of option 11

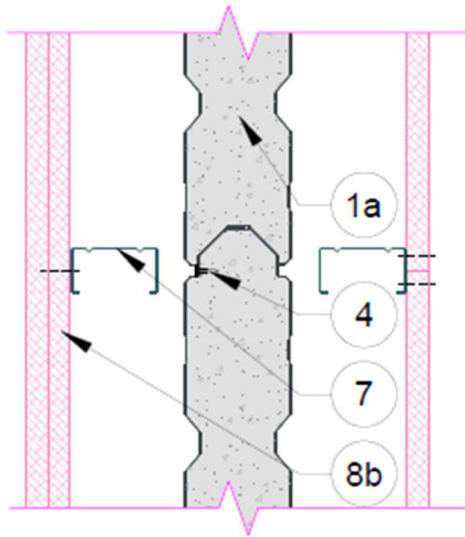


Figure 41 Plan view of 78 mm Speedpanel with 2 × 16 mm fire rated plasterboard cladded steel frame on one side and 1×16 mm fire rated plasterboard cladded steel frame on the other – option 12

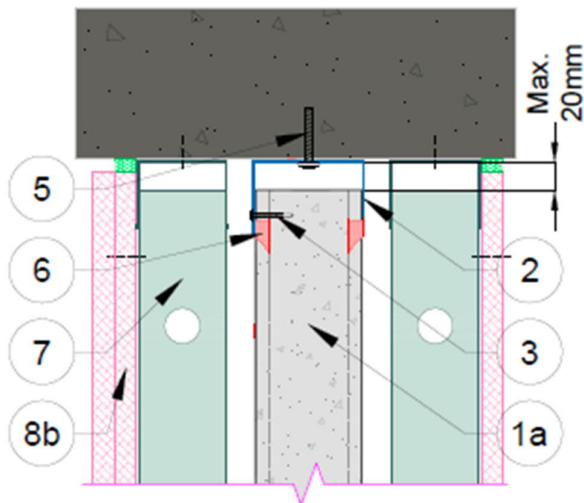


Figure 42 Section view of head details of option 12

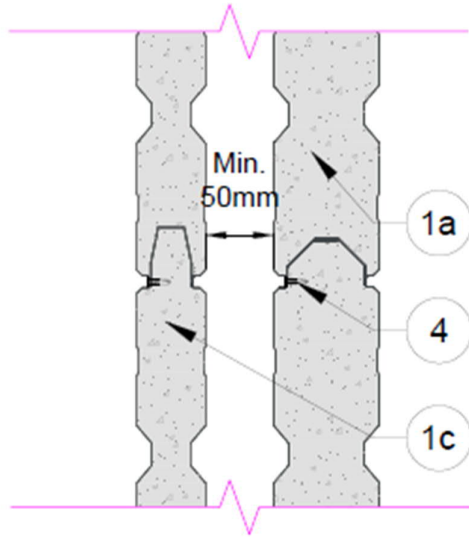


Figure 43 Plan view of Speedpanel dual system – 51 mm and 78 mm Speedpanel with minimum 50 mm cavity

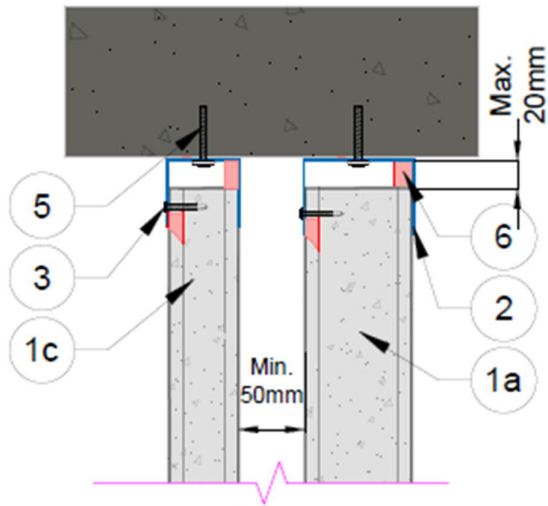


Figure 44 Section view of head details of dual Speedpanel wall systems

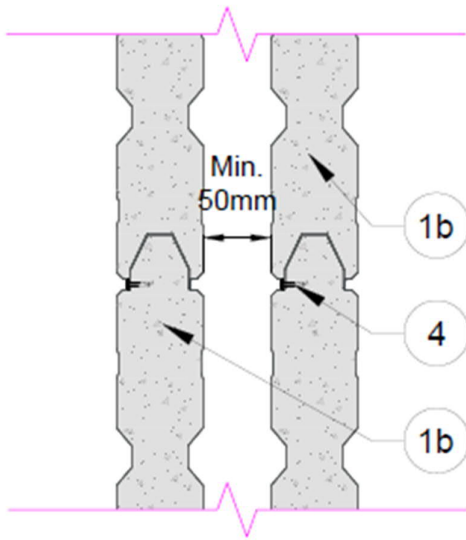


Figure 45 Plan view of Speedpanel dual system – 2 × 64 mm Speedpanel with minimum 50 mm cavity

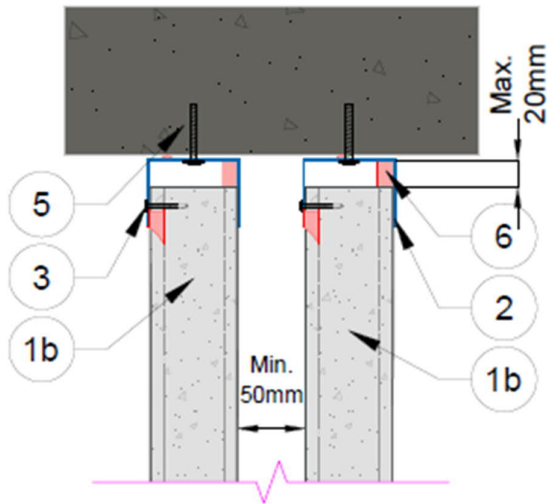


Figure 46 Section view of head details of dual Speedpanel wall systems

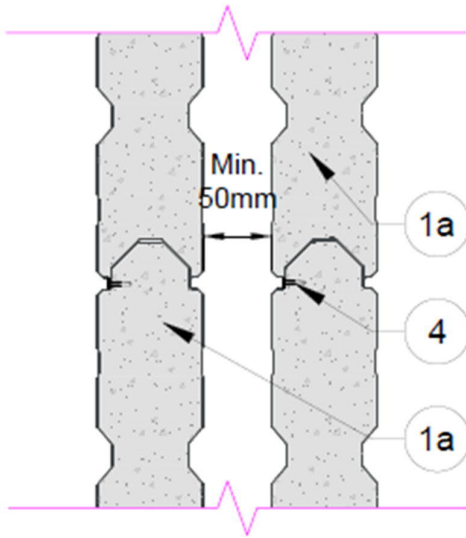


Figure 47 Plan view of 2 × 78 mm Speedpanel with minimum 50 mm cavity

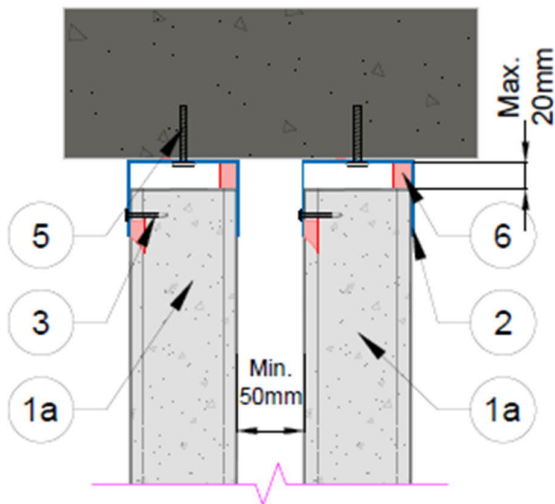


Figure 48 Section view of head section

5. Assessment outcome

Details of the assessment and discussion are only available in the referenced main assessment report. A summary of the assessment outcome is outlined in Table 6.

The referenced assessment demonstrates that the proposed vertical Speedpanel walls are expected to achieve the FRLs shown in Table 6 if it were tested in accordance with AS 1530.4:2014.

Table 6 Assessment outcome

System type	Figure number	Speedpanel wall thickness (mm)	Maximum wall height (m)	FRL (from either direction)
Lined wall system	Figure 1 - Figure 18	78	6.0	-/180/180
Dual Speedpanel system	Figure 43 - Figure 44	51 and 78	5.0	-/180/180
	Figure 45 - Figure 46	64 and 64		
Lined wall system	Figure 19-Figure 42	78	6.0	-/240/240
Dual Speedpanel system	Figure 47-Figure 48	78 and 78	6.0	-/240/240

6. Validity

Warringtonfire Australia does not endorse the tested or assessed product in any way. The conclusions of the referenced assessment may be used to directly assess fire resistance, but it should be recognised that a single test method will not provide a full assessment of fire resistance under all conditions.

Due to the nature of fire testing and the consequent difficulty in quantifying the uncertainty of measurement, it is not possible to provide a stated degree of accuracy. The inherent variability in test procedures, materials and methods of construction, and installation may lead to variations in performance between elements of similar construction.

The referenced assessment is based on test data, information and experience available at the time of preparation. If contradictory evidence becomes available to the assessing authority, the assessment will be unconditionally withdrawn and the report sponsor will be notified in writing. Similarly, the assessment should be re-evaluated, if the assessed construction is subsequently tested since actual test data is deemed to take precedence.

The published procedures for the conduct of tests and the assessment of test results are subject to constant review and improvement. It is therefore recommended that the referenced assessment report be reviewed on, or before, the stated expiry date.

The referenced assessment represents our opinion about the performance of the proposed systems expected to be demonstrated on a test in accordance with AS 1530.4:2014, based on the evidence referred to in the referenced assessment report.

The referenced assessment is provided to Speedpanel Holdings Pty Ltd for their own specific purposes. The referenced assessment report may be used as Evidence of Suitability in accordance with the requirements of the relevant National Construction Code. Building certifiers and other third parties must determine the suitability of the systems described in the referenced assessment report for a specific installation.

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