



Regulatory Information Report




An assessment of the fire resistance performance of
Speedpanel and structural steel integrated wall systems

Client: Speedpanel Holdings Pty Ltd

Report number: 31919000 Revision: RIR1.0 Project reference number: FAS190315

Issue date: 26 February 2020 Expiry date: 28 February 2025

Amendment schedule

Version	Date	Information relating to report			
RIR1.0	Issue: 26/02/2020	Reason for issue	Report issued to Speedpanel Holdings Pty Ltd.		
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1. Introduction

This report contains the minimum information sufficient for regulatory compliance and refers to Assessment report 31919000 R4.0.

The referenced assessment report presents an assessment of the fire resistance performance of various construction details incorporated in Speedpanel and structural steel integrated wall systems if tested in accordance with AS 1530.4:2014¹. This includes construction details for base, head, corners and T-junctions of the wall and construction details related to horizontal and/or vertical stacked wall systems.

In addition, the report presents an assessment of Speedpanel external wall systems with parapet detail if tested in accordance with AS 1530.4:2014.

The tested prototypes described in Section 2 of this report, when subjected to the proposed variations described in Section 3 and tested in accordance with the relevant standards described in Section 4, are assessed to achieve the performance as summarised in Section 5.

The validity of the referenced assessment report is conditional on compliance with Sections 6, 7, 8 and 9 of this report.

2. Tested prototypes

The assessment of the variation to the tested system and the determination of the likely performance is based on the results of the fire tests documented in the reports summarised in Table 1.

Table 1 Referenced test data

Report number	Test sponsor	Test date	Tested standard
F91794A	Speedpanel VIC Pty Ltd.	2 December 1999	AS 1530.4:1997 ²
BWA 2257600.5	Speedpanel VIC Pty Ltd.	6 March 2008	AS 1530.4:2005 ³
BWA 2286900.5	Speedpanel VIC Pty Ltd.	18 August 2008	AS 1530.4:2005
FR 4322	Speedpanel VIC Pty Ltd.	22 October 2009	AS 1530.4:2005
EWFA 2741700.1	Speedpanel VIC Pty Ltd.	20 July 2012	AS 1530.4:2005
EWFA 2736000	Speedpanel VIC Pty Ltd.	22 June 2012	AS 1530.4:2005
EWFA 2736001	Speedpanel VIC Pty Ltd.	26 July 2012	AS 1530.4:2005
EWFA 2736002	Speedpanel VIC Pty Ltd.	13 July 2012	AS 1530.4:2005
EWFA 2798800.1	Speedpanel VIC Pty Ltd.	29 January 2013	AS 1530.4:2005
EWFA 2848300.2	Speedpanel VIC Pty Ltd.	29 May 2013	AS 1530.4:2005

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.

² Standards Australia (1997) Methods for fire tests on building materials, components and structures Part 4: Fire resistance tests for elements of construction, AS 1530.4:1997.

³ 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.

3. Variation to tested prototypes

3.1 Assessment of various construction details for Speedpanel and structural steel integrated wall systems

The proposed construction shall be 51mm, 64mm and 78mm thick Speedpanel wall systems as tested in EWFA 2736002.1, EWFA 2848300.2 and BWA 2286900.5, respectively with consideration given to the following variations.

- 51mm and 64mm thick vertically oriented Speedpanel wall systems shall have a maximum vertical height of 5m.
- 78mm thick vertically oriented Speedpanel wall systems shall have a maximum vertical height of 6m without the introduction of additional lateral restraint.
- 51mm, 64mm and 78mm thick horizontally oriented Speedpanel wall systems shall have a maximum horizontal span of 4.5m.
- Base details fixed to structural steel shall be as shown in Figure 1 to Figure 6.
- Head details shall be as shown in Figure 7 to Figure 21.
- Corner details shall be as shown in Figure 22 to Figure 33.
- T-junction details shall be as shown in Figure 34 to Figure 39.
- 78mm thick horizontally stacked Speedpanel wall systems shall be as shown in Figure 40 to Figure 47.
- 78mm thick combined vertical and horizontal stacked Speedpanel wall systems shall be as shown in Figure 48 to Figure 49.
- 78mm thick single span wall system with bracing supports shall be as shown Figure 55 to Figure 58.

3.2 Assessment of Speedpanel external wall systems with parapet detail

The proposed construction shall be as tested in BWA 2286900.5 with consideration given to the following variations:

- Speedpanel wall shall be up to 14m high.
- The steel structural framing on the unexposed side shall be either 102mm × 53mm × 1.2mm Steel Z-Shape purlin, 102mm × 51mm × 1.2mm Steel C-shape purlin or any similar framing designed in accordance with AS/NZS 4600 or AS3623. The framing shall laterally support the Speedpanel wall as summarised in Table 3 for different wall heights. Also, the framing shall be positioned next to Speedpanel wall junction with maximum 600mm distance.
- C-shape purlin framing shall be fixed to the Speedpanel barrier with 50mm × 50mm × 1.2mm BMT steel angle at 500mm centres
- Inclusion of parapet detail with maximum 500mm extension.
- The Speedpanel wall junction shall be protected with steel flashing at one side.
- Refer to Table 3, Figure 50 to Figure 54, and Figure 59 to Figure 61 for a summary of the proposed construction.

Table 2 Schedule of components

Item	Description	
1	Name	78mm Speedpanel® panel – Vertical
	Material	0.4mm BMT mild steel sheath with lightweight cementitious infill
	Size	285mm × 78mm (250mm engaged – tongue & groove)
2	Name	78mm Speedpanel® panel – Horizontal
	Material	0.4mm BMT mild steel sheath with lightweight cementitious infill
	Size	285mm x 78mm (250mm engaged – tongue & groove)
3	Name	Speedpanel® C-track
	Material	1.15mm BMT (1.2mm TCT) galvanised mild steel
	Spacing	55×82×55mm
4	Name	Speedpanel® J-track
	Material	1.15mm BMT (1.2mm TCT) galvanised mild steel
	Spacing	50×82×150mm
5	Name	Speedpanel® 1.15mm Equal Angle (EA)
	Material	1.15mm BMT (1.2mm TCT) galvanised mild steel
	Spacing	50×50mm
6	Name	Track to panel & track to track fixing
	Material	Min. 10g × 30mm SDS
	Spacing	Max. 500mm centres
7	Name	Panel to panel fixing
	Material	Min. 10g × 16mm SDS
	Installation	Every joint at 1000mm centres
8	Name	Plasterboard or Promatect fixing
	Material	6g × 40mm or 6g × 50mm bugle plasterboard SDS (fine thread)
	Spacing	Two rows at max. 250mm centres (staggered at 125mm)
9	Name	Track to Panel (Through) fixing (for horizontal installation)
	Material	Min. 10g × 115mm hex head SDS (20-24 TPI)
	Installation	Through every panel joint (250mm centres)
10	Name	Track to track (through) fixing
	Material	Min. 10g × 115mm Hex Head SDS (20-24 TPI)
	Installation	Max. 500mm centres
11	Name	C-track to structural steel fixing
	Material	Min. 5mm bolt or SDS
	Installation	A bolt or SDS that, under ambient conditions, has the same (or better) pull out and shear capacity as a 5mm mild steel bolt (to be engineered by others).
12	Name	Fire rated sealant (for Speedpanel system)
	Material	Promat Promaseal A, Bostik Fireban One or Hilti CP606
	Installation	Seal all joints between the panels (items 1 or 2) and the perimeter tracks and angles (items 3-5)

13	Name	Fire rated sealant (for passive fire steel protection)
	Material	Promat Promaseal A
	Installation	Seal all gaps between the panels (items 1 or 2) and Promatect 250
14	Name	Head Track Protection
	Option 1	Speedpanel® head track flashing
	Material	0.7mm BMT × 130mm
	Installation	Fixed using item 6 top and bottom at 500mm centres (staggered at 250mm)
	Option 2	Fire rated plasterboard
	Material	13mm × 120mm strip
	Installation	Fixed using item 8 top and bottom at 250mm centres (staggered at 125mm) (exposed edge to be sealed back to panels with a fillet of item 12)
	Option 3	Promatect 250
	Material	15mm × 120mm strip (based on manufacturer's guidelines)
	Installation	Fixed using item 8 at top and bottom at 250mm centres (staggered at 125mm)
15		Back-to-Back track protection
	Name	Option 1 – Speedpanel® flashing
	Material	0.7mm BMT × 130mm
	Installation	Fixed using item 6 top and bottom at 500mm centres (staggered at 250mm)
	Name	Option 2 – Fire rated plasterboard
	Material	13mm × 120mm strip (both exposed edges to be sealed back to the face of the panels with a fillet of item 12)
	Installation	Fixed using item 8 top and bottom at 250mm centres (staggered at 125mm)
	Name	Option 3 – Promatect® 250
	Material	15mm × 120mm strip (based on manufacturer's guidelines)
	Installation	Fixed using item 8 top and bottom at 250mm centres (staggered at 125mm)
16		Structural steel protection (consider fitness for purpose)
	Name	Option 1 – Promatect® 250
	Material	1 × 15mm
	Installation	Lapped min. 100mm onto all exposed faces of the Speedpanel and installed as per the manufacturer's and project engineer's specifications
	Name	Option 2 – Vermiculite spray
	Material	Cafco® 300 Vermiculite
	Installation	Over sprayed min. 100mm × 20mm deep onto all exposed faces of the Speedpanel and installed as per the manufacturer's and project engineer's specifications
	Name	Option 3 – Cementitious spray
	Material	Cafco Fendolite® MII
	Installation	Over sprayed min. 100mm × 20mm deep onto all exposed faces of the Speedpanel and installed as per the manufacturer's and project engineer's specifications
17	Name	Bracing connection angle (0.5kPa)
	Material	5mm BMT × 65mm EA – mild steel
	Installation	Fixed to lintel at max. 2.4m centres using 2× M16 (4.6S) bolts Refer to Table 4 for bracing height requirements.

18	Name	Bracing connection angle (0.5kPa) - sacrificial
	Material	6.35mm BMT × 63.5mm EA – aluminium
	Installation	Fixed to lintels on both faces of the wall at max. 2.4m centres using 2 x M16 (4.6S) bolts Refer to Table 4 to bracing spacings along the panel height.
19	Name	Fixing plate
	Material	1.15mm BMT mild steel
	Installation	Min. 100mm wide
20	Name	Barge flashing
	Material	0.7mm BMT steel flashing
	Installation	Capped at the top of Speedpanel parapet detail and fixed to panel with min. 10g SDS screws at max. 500mm centres
21	Name	Wall head infill
	Material	Rockwool
	Installation	Compressed to fill all gaps
22	Name	Corner flashing (external)
	Material	0.7mm BMT × 160×160mm
	Installation	Fixed at 500mm centres on each face using item 6
23	Name	Deep track (*custom size to suit structural steel)
	Material	1.15mm BMT mild steel
24	Name	Steel column (Square Hollow Section, SHS)
	Material	Cold-rolled mild steel
	Size	5mm × 100×100mm
25	Name	Steel Z-purlin
	Size	102 × 53mm × 1.2mm (min.)
	Installation	Laterally supporting Speedpanel wall as per table 2 for various Speedpanel wall heights and fixed to Speedpanel wall at 500mm centres
26	Name	Steel C-purlin
	Material	102 × 51mm × 1.2mm (min.)
	Installation	Laterally supporting Speedpanel wall as per table 2 for various Speedpanel wall heights and fixed to Speedpanel wall at 500mm centres
27	Name	Track to concrete fixing
	Material	M6.5 × 50mm mushroom head spike or Hilti HUS3-P 6x40/5 anchor
	Spacing	Max. 500mm centres
28	Name	Speedpanel® J-Track (for exterior applications)
	Material	1.15mm BMT (1.2mm TCT) galvanised mild steel
	Size	50×82×90mm (with weep holes at 250mm centres on exterior face)

Table 3 Support spacing for various wall heights

Maximum Speedpanel wall height (X)	Maximum lateral support spacing for steel Z-purlin (item 25) and steel C-purlin (item 26)
14 m	2.5 m
12 m	3 m
10 m	3.5 m
9 m	3.5 m
8 m	4 m
7 m	4.5 m
6 m	4.5 m
5 m	5 m
4 m	4 m
3 m	3 m

Table 4 Bracing support spacing for various single span wall systems

Maximum single span Speedpanel wall height	Maximum distance allowed between bracing lintel/s on the face of the wall and the structural element/s above
8.0 m	3.75 m
7.5 m	3.0 m
7.0 m	2.25 m
6.5 m	1.5 m
6.0 m	No bracings are required

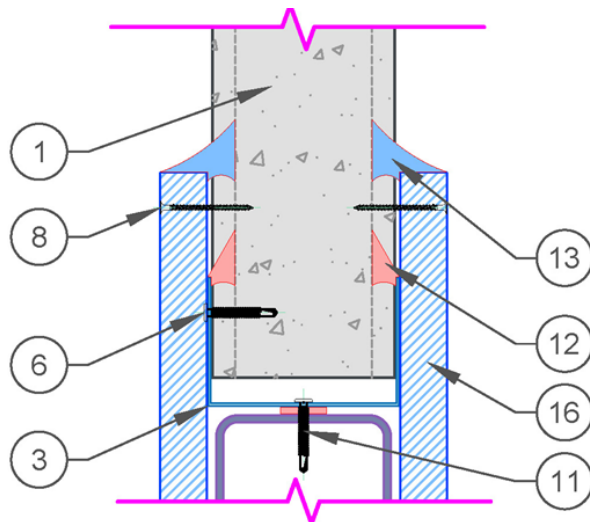


Figure 1 Base detail option 1

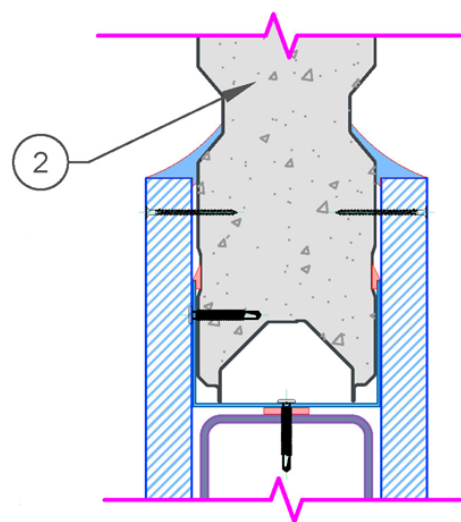


Figure 2 Base detail option 2

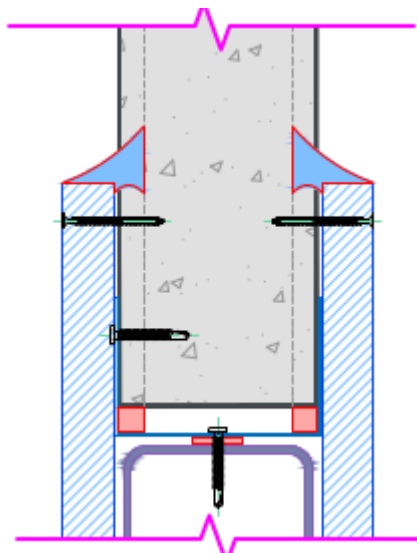


Figure 3 Base detail option 3

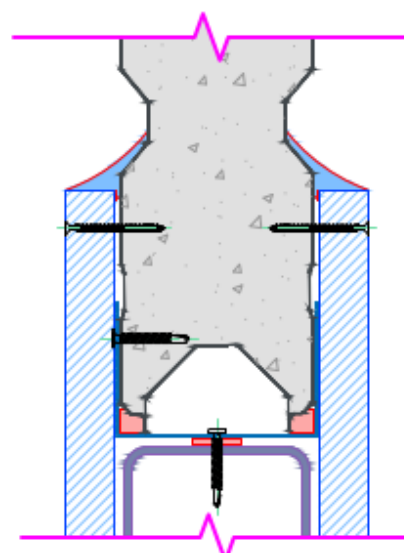


Figure 4 Base detail option 4

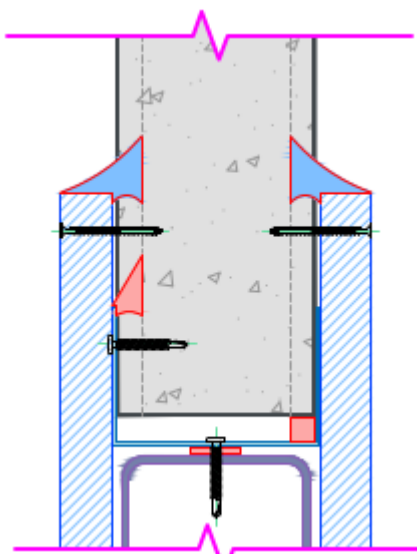


Figure 5 Base detail option 5

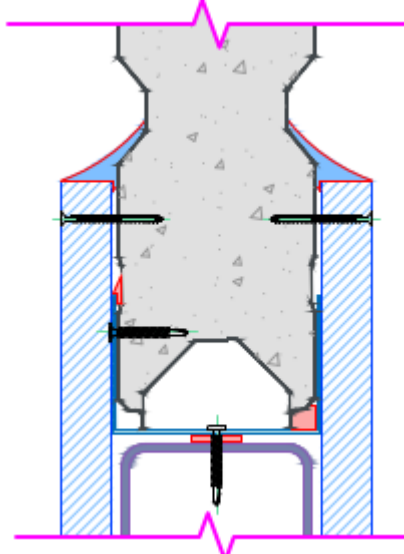


Figure 6 Base detail option 6



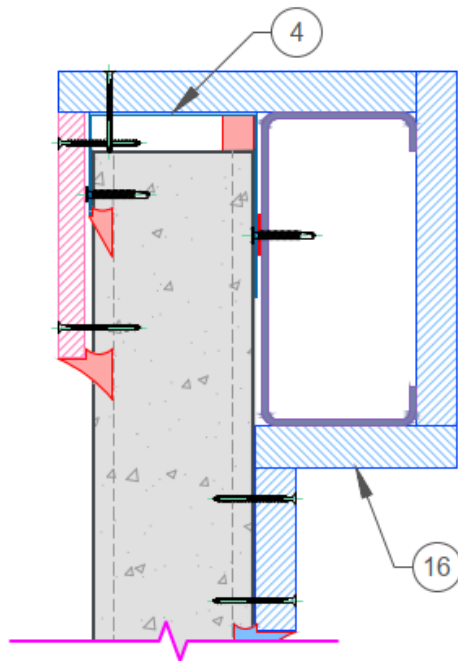


Figure 11 Head detail option 5

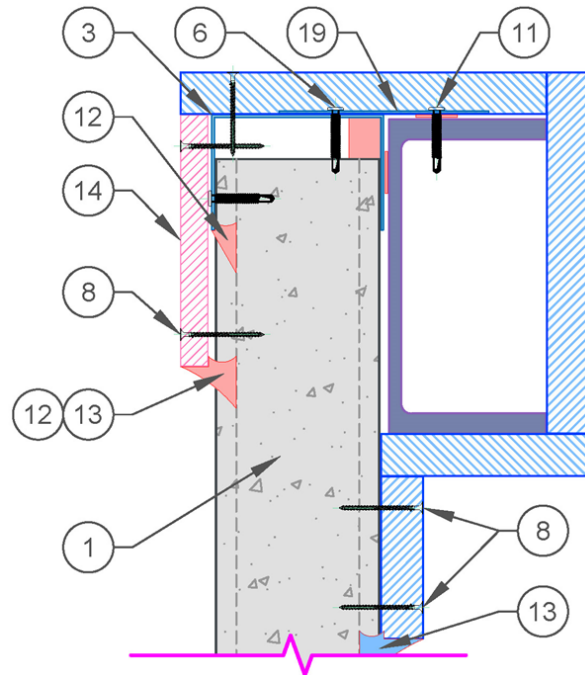


Figure 12 Head detail option 6

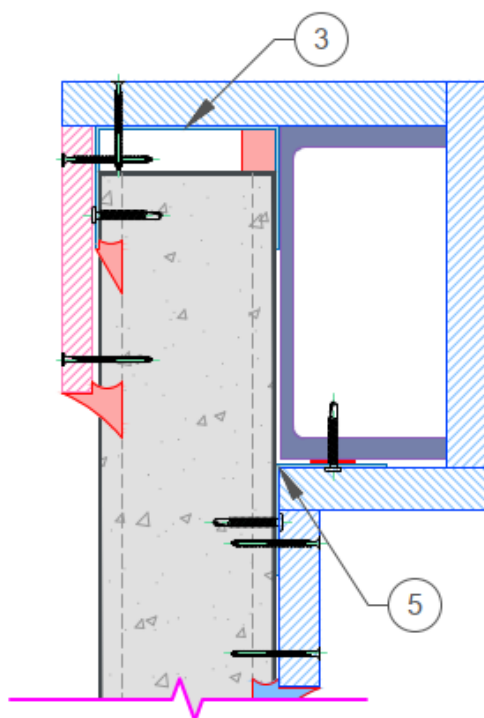


Figure 13 Head detail option 7

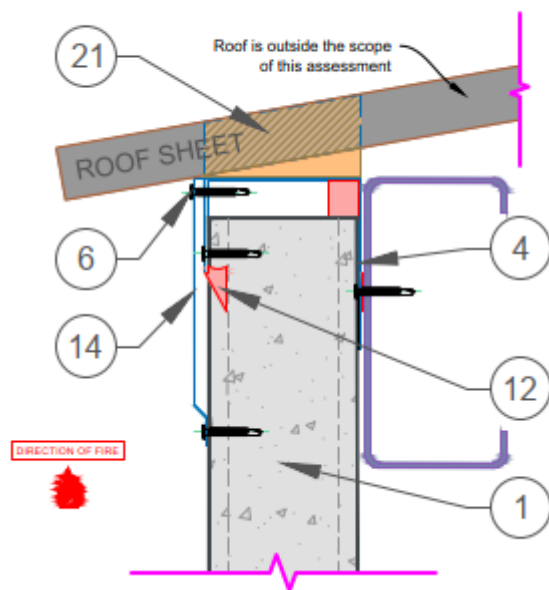


Figure 14 Head detail option 8

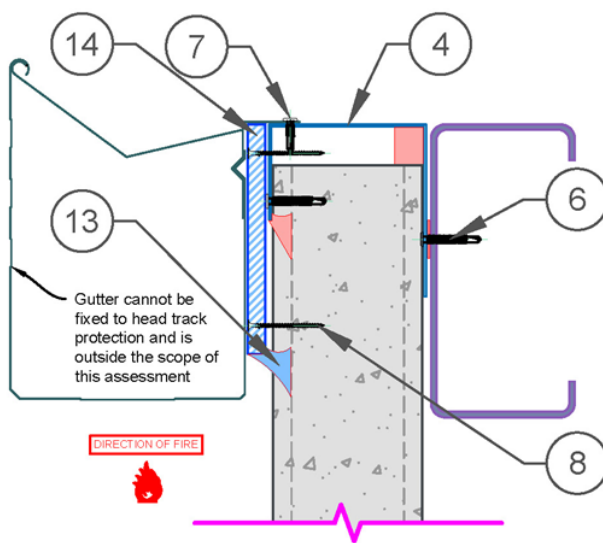


Figure 15 Head detail option 9

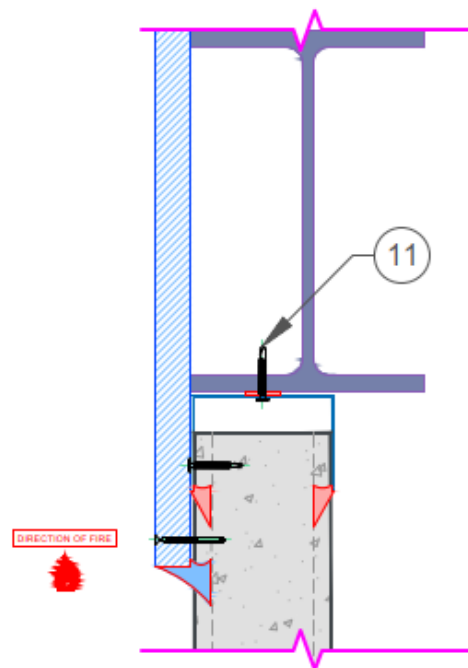


Figure 16 Head detail option 10

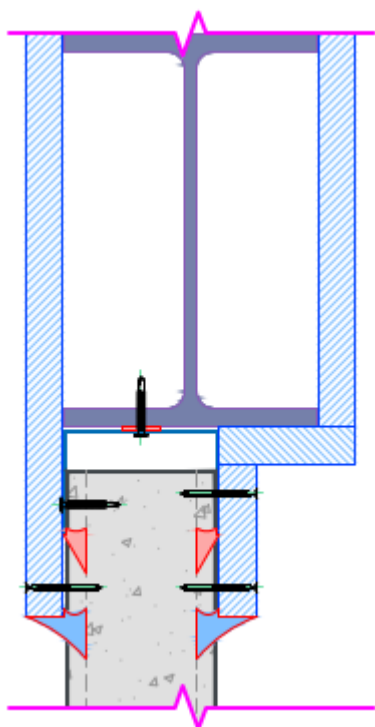


Figure 17 Head detail option 11

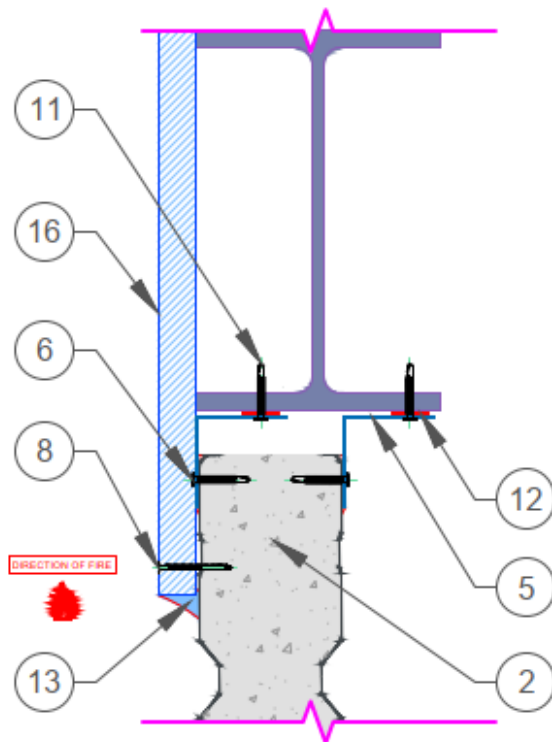


Figure 18 Head detail option 12

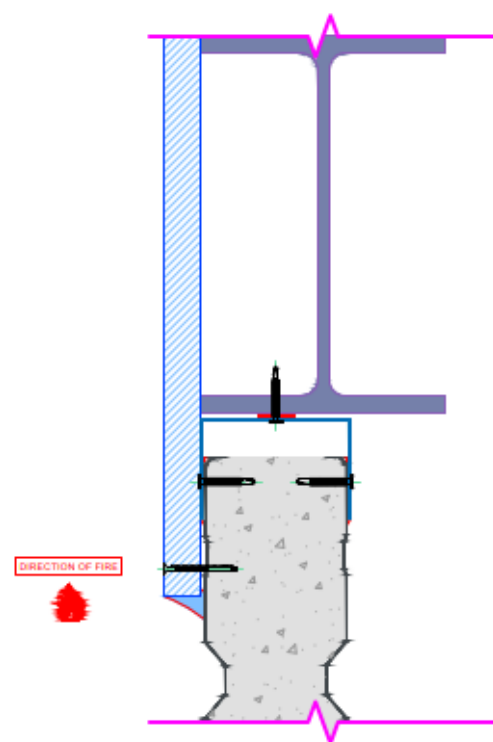


Figure 19 Head detail option 13

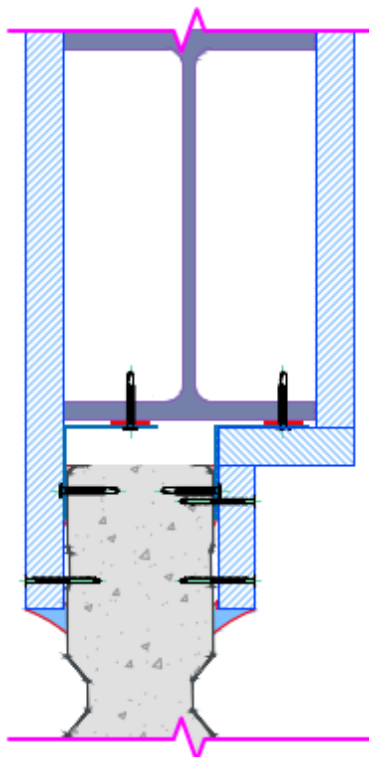


Figure 20 Head detail option 11

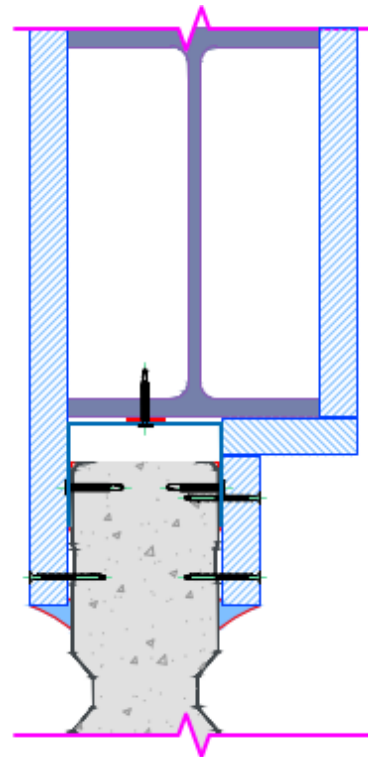


Figure 21 Head detail option 11

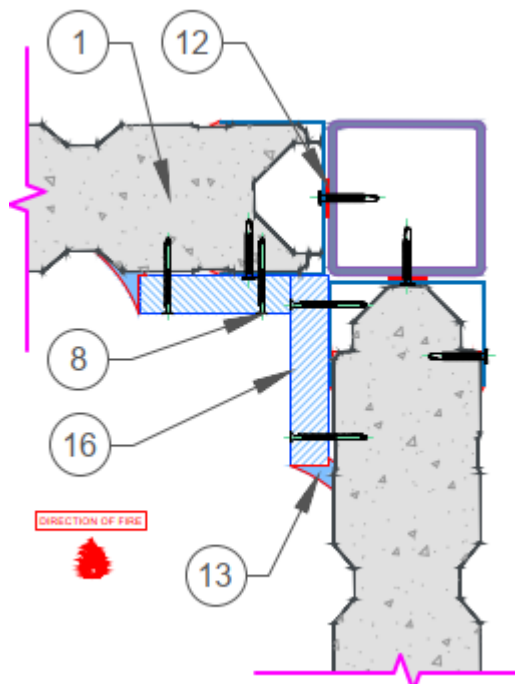


Figure 22 Corner detail option 1

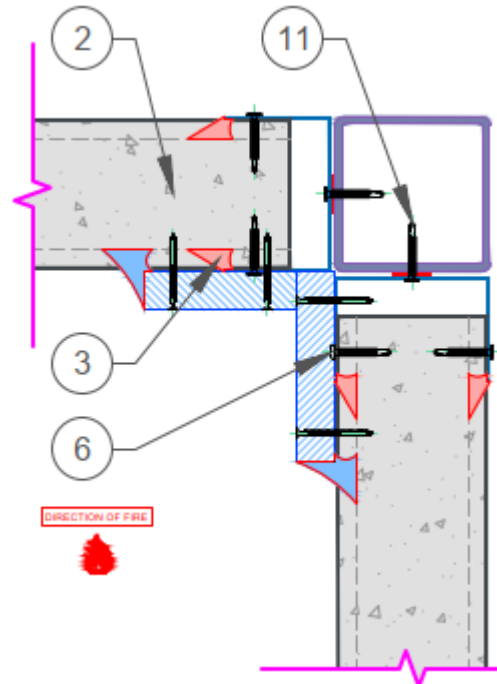


Figure 23 Corner detail option 2

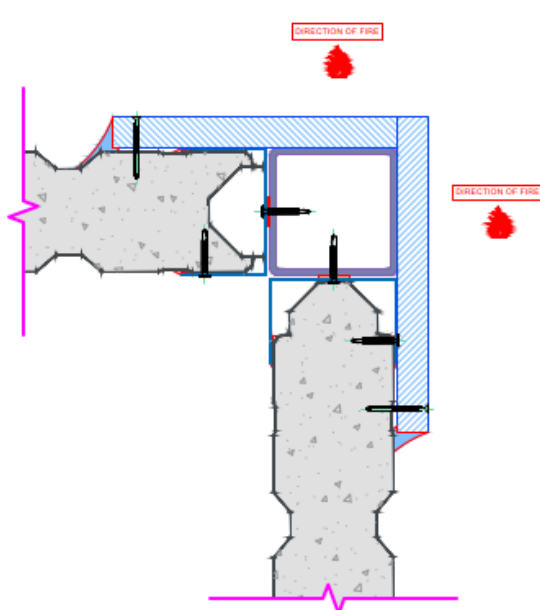


Figure 24 Corner detail option 3

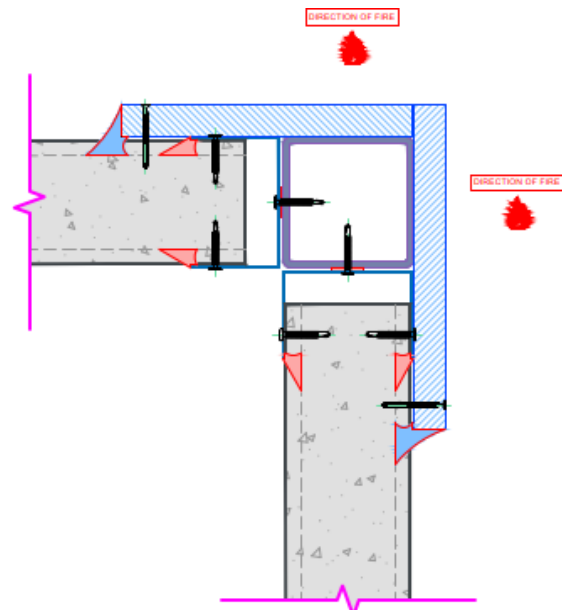


Figure 25 Corner detail option 4

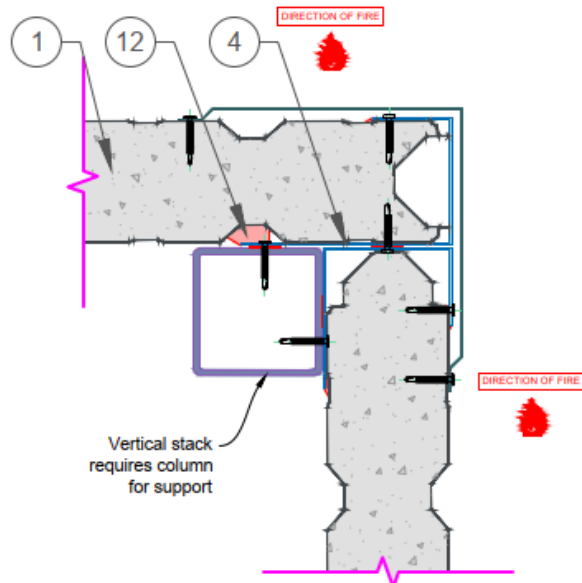


Figure 26 Corner detail option 5

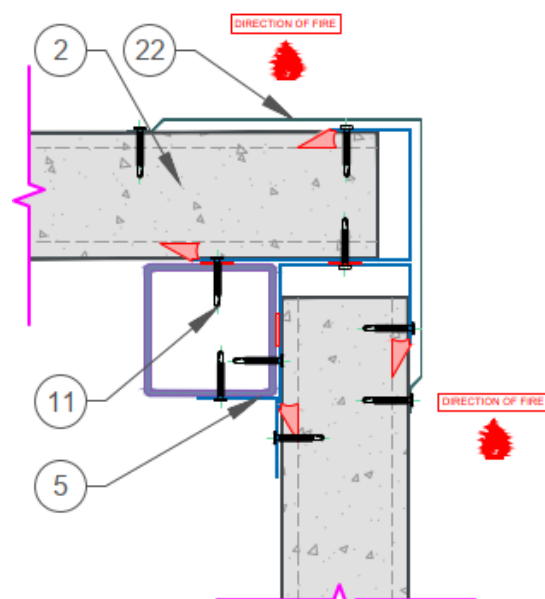


Figure 27 Corner detail option 6

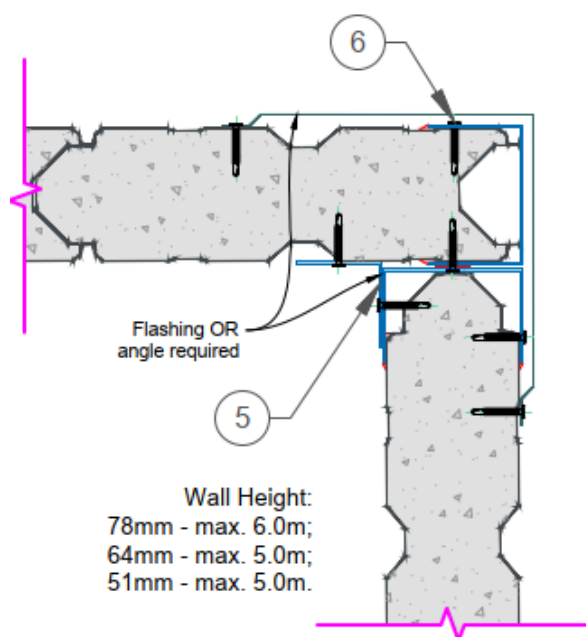


Figure 28 Corner detail option 7

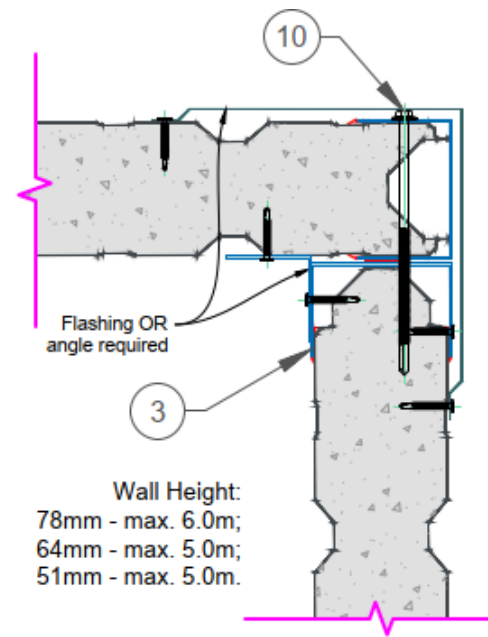


Figure 29 Corner detail option 8

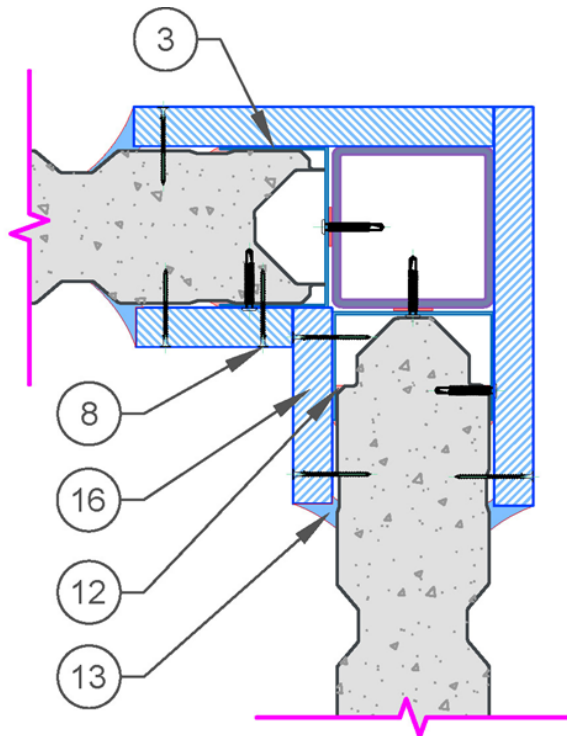


Figure 30 Corner detail option 9

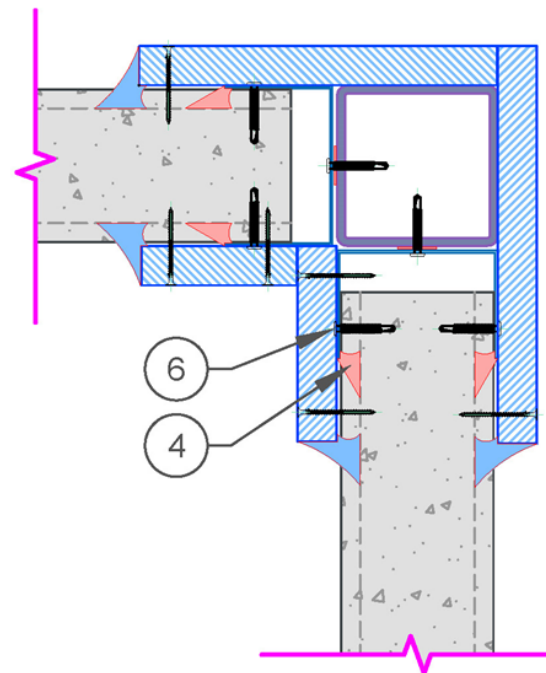


Figure 31 Corner detail option 10

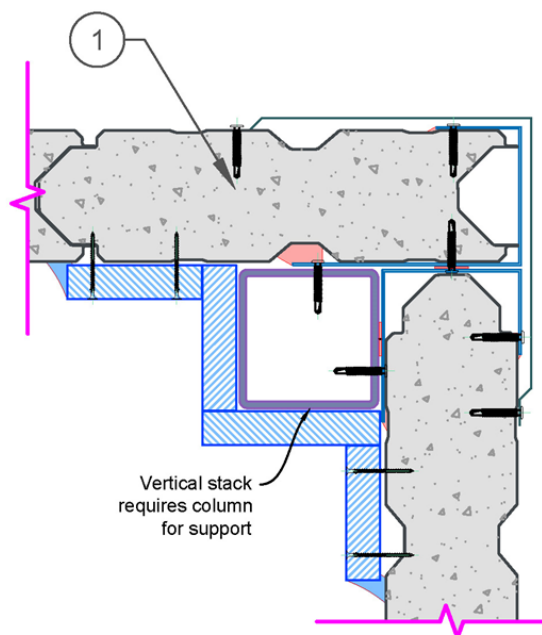


Figure 32 Corner detail option 11

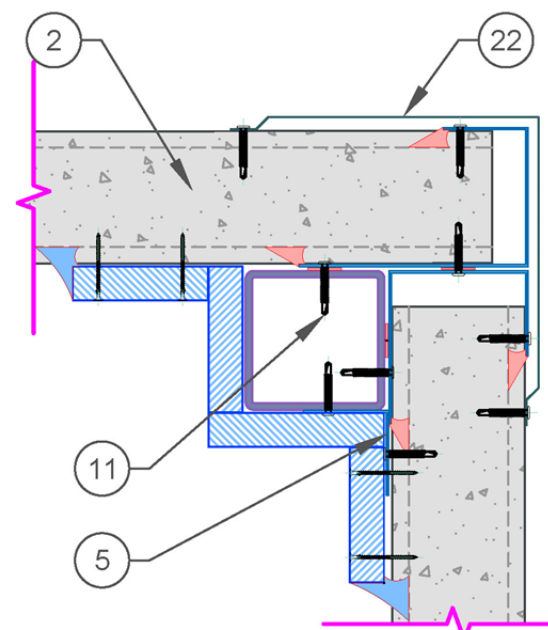


Figure 33 Corner detail option 12

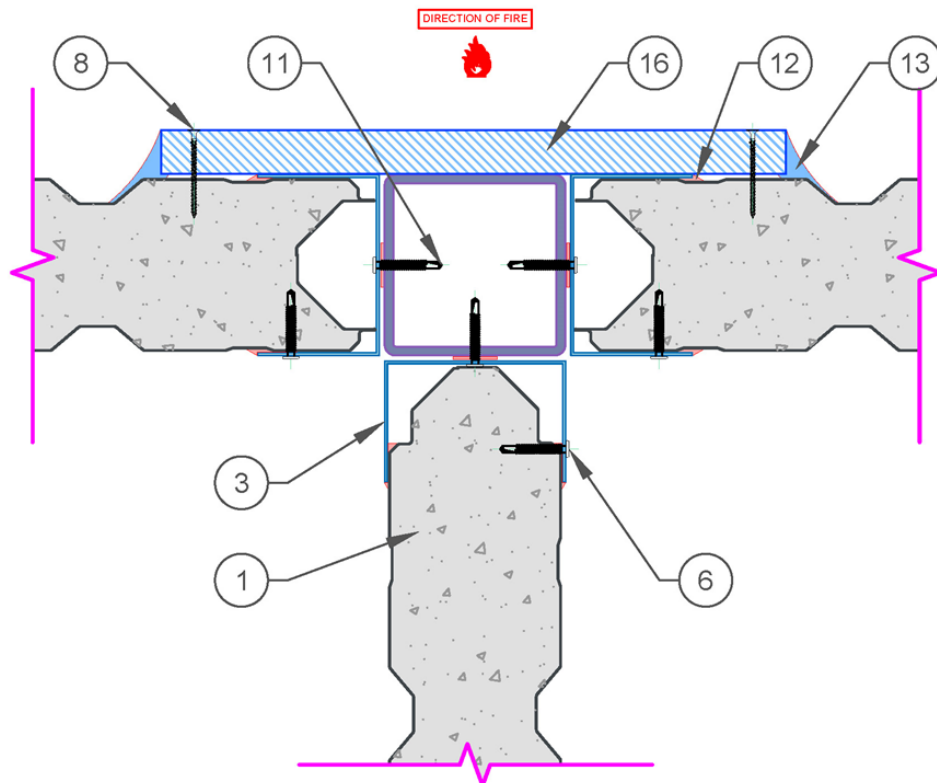


Figure 34 T-junction detail option 1

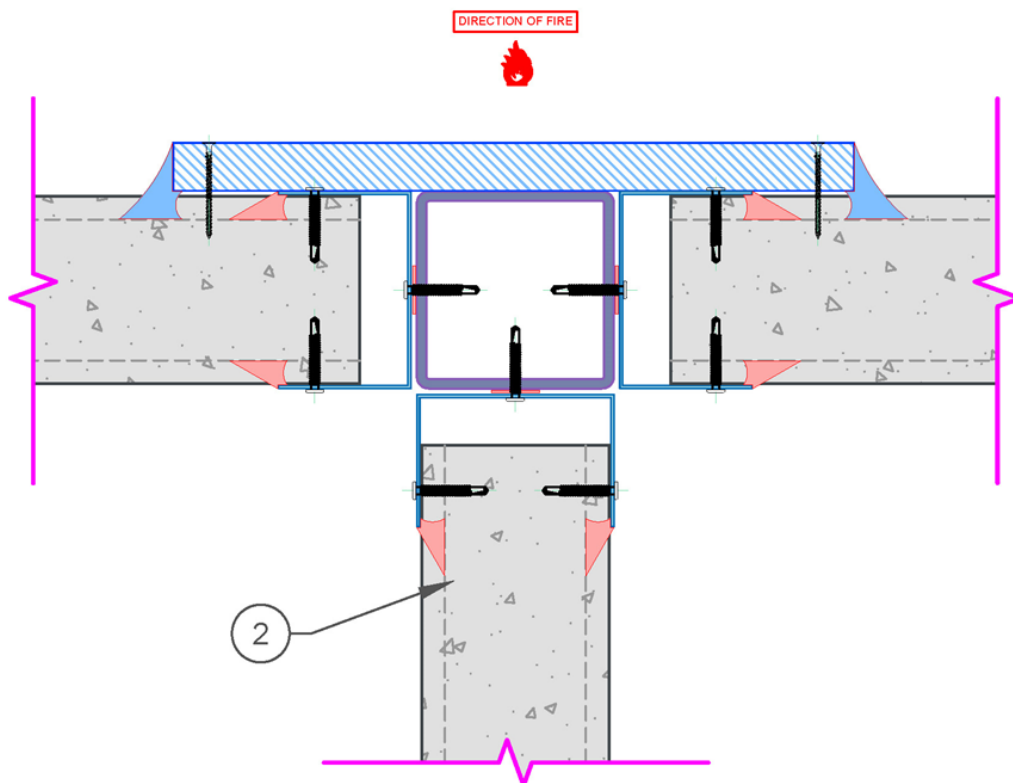


Figure 35 T-junction detail option 2

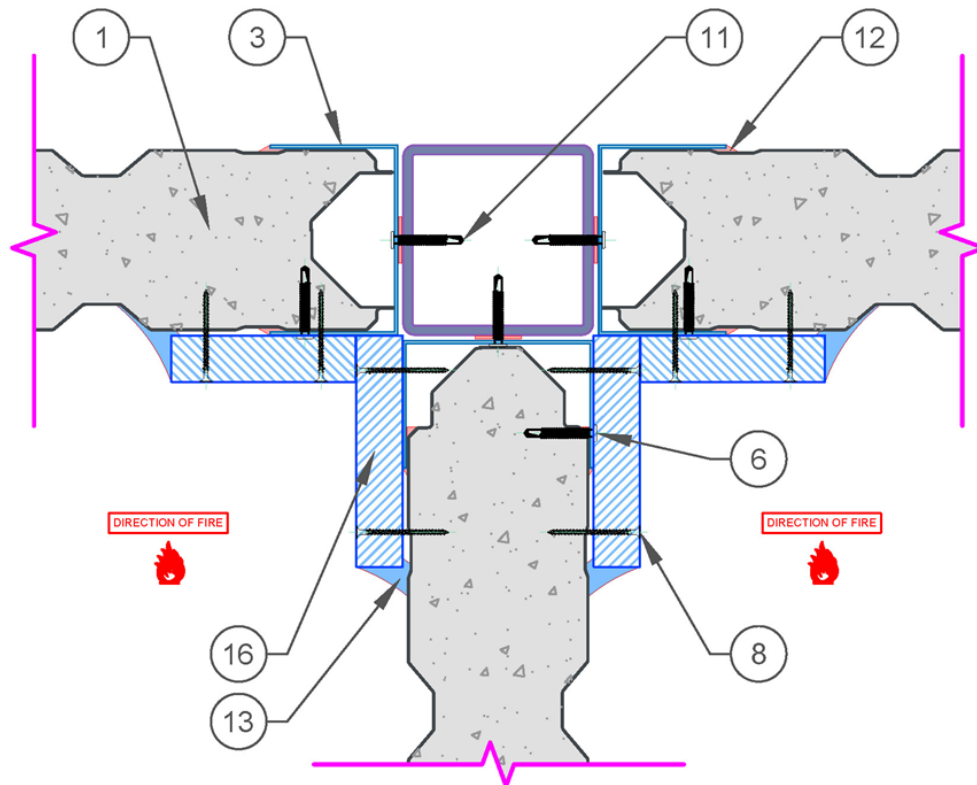


Figure 36 T-junction detail option 3

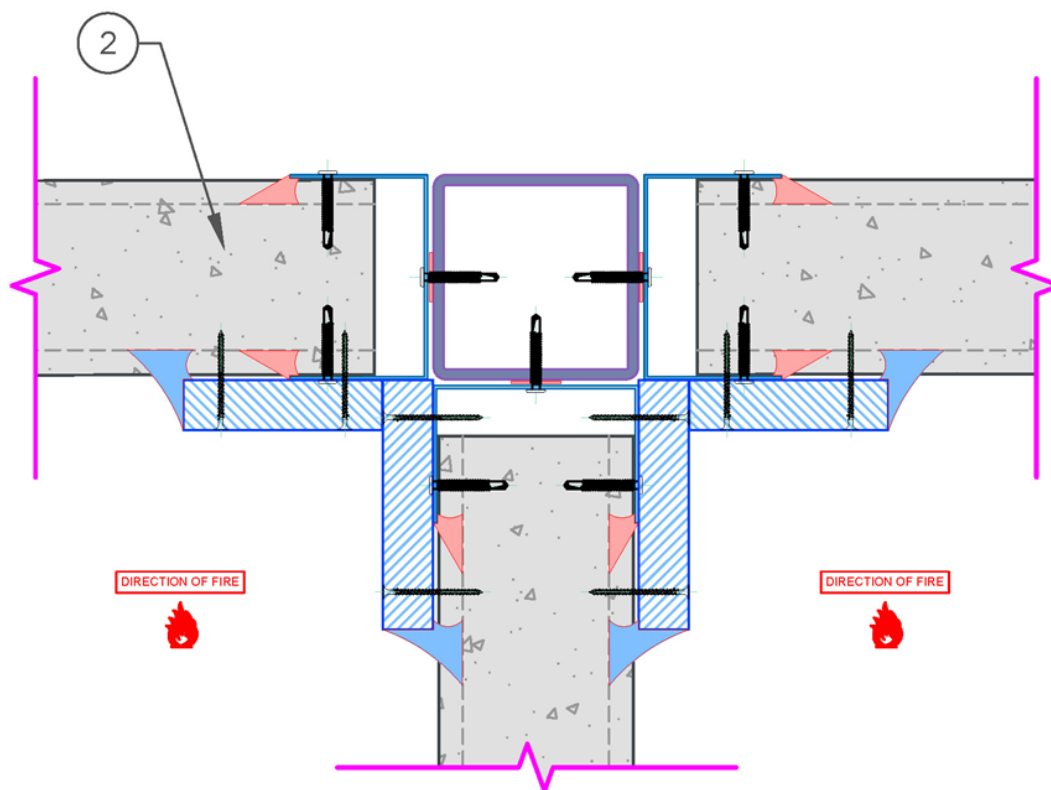


Figure 37 T-junction detail option 4

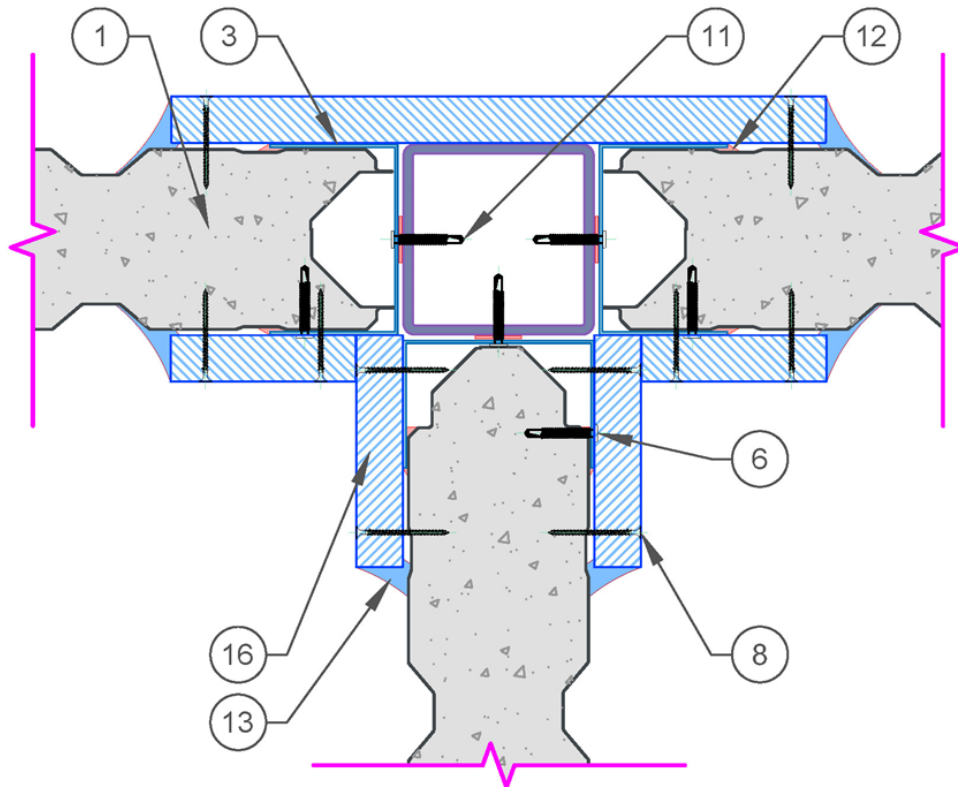


Figure 38 T-junction detail option 5

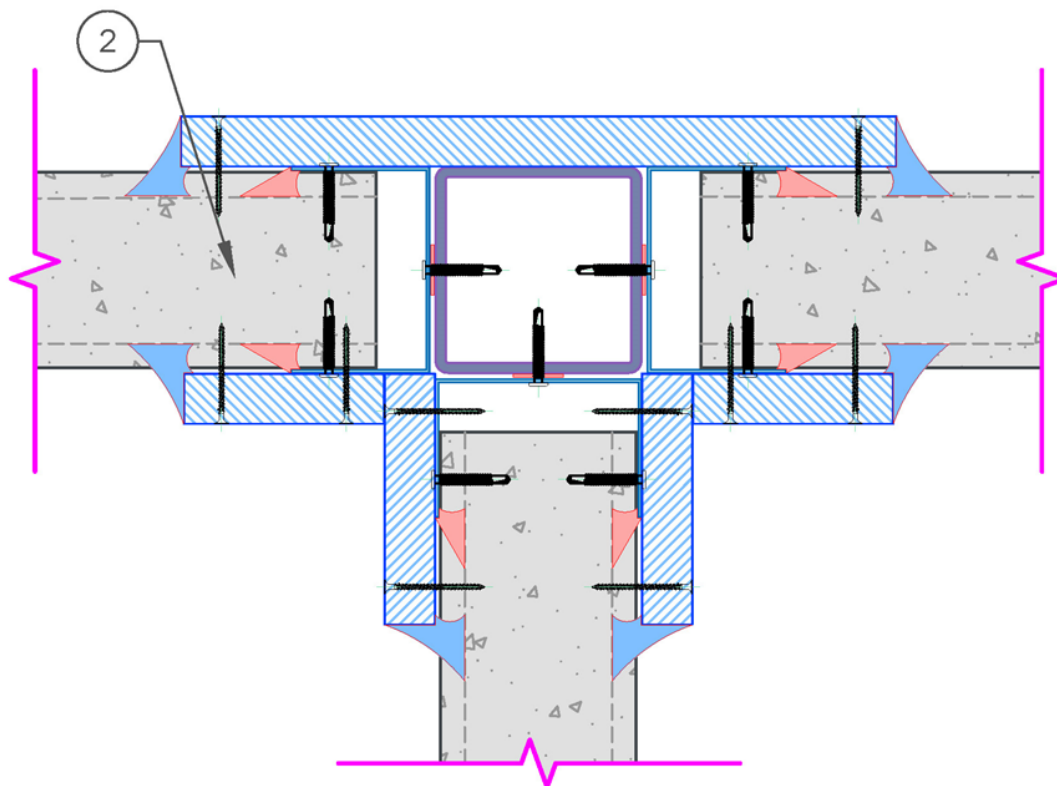


Figure 39 T-junction detail option 6

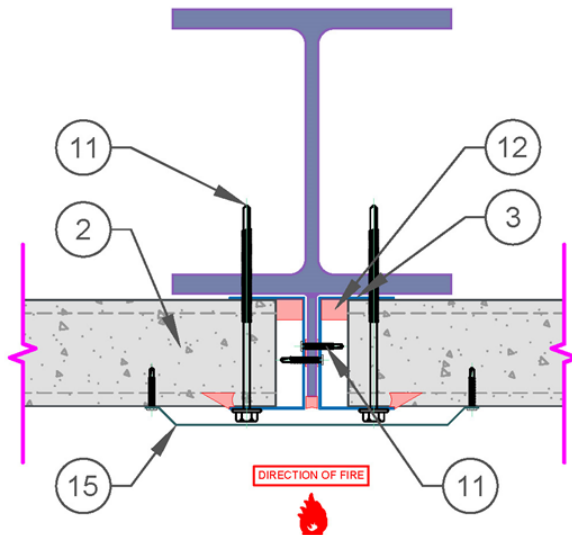


Figure 40 Horizontal stack detail option 1

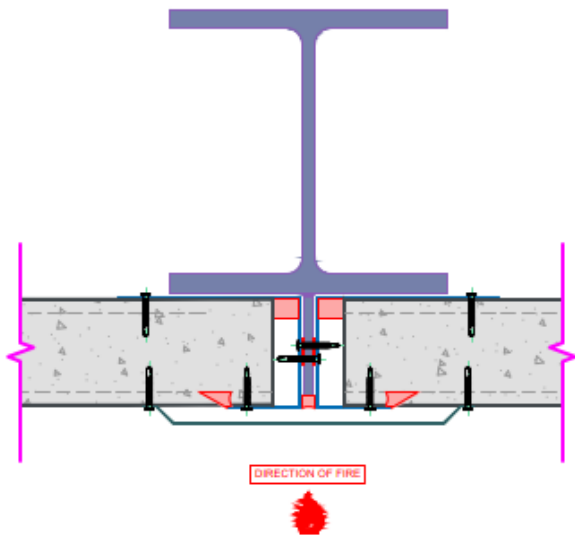


Figure 41 Horizontal stack detail option 2

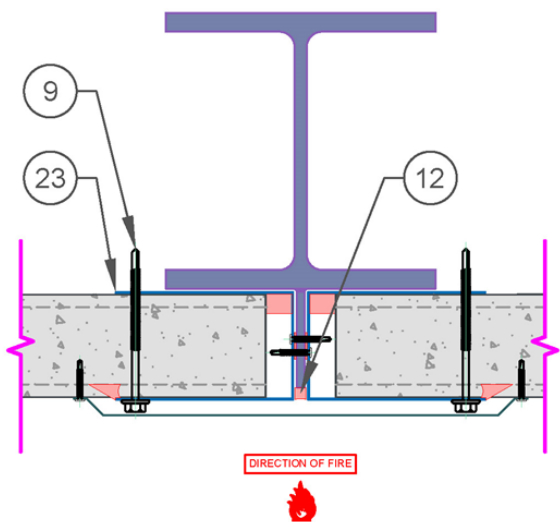


Figure 42 Horizontal stack detail option 3

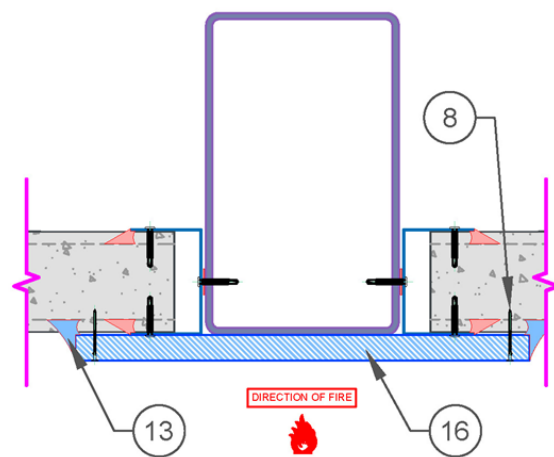


Figure 43 Horizontal stack detail option 4

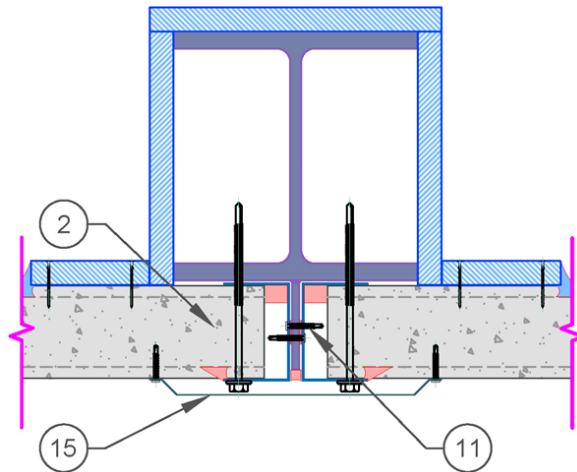


Figure 44 Horizontal stack detail option 5

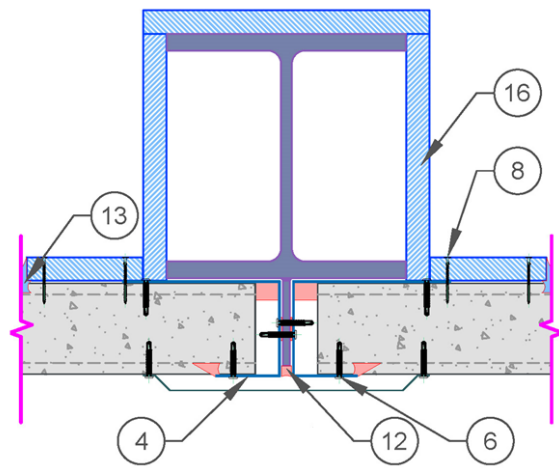


Figure 45 Horizontal stack detail option 6

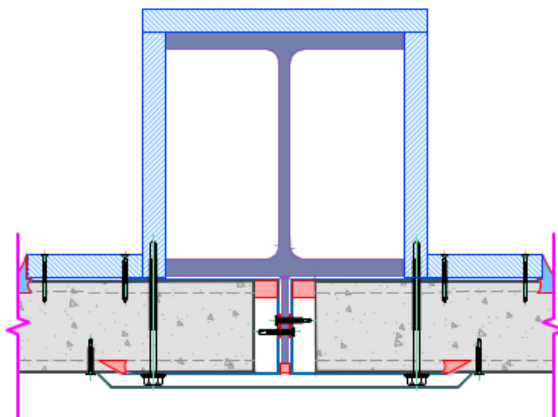


Figure 46 Horizontal stack detail option 7

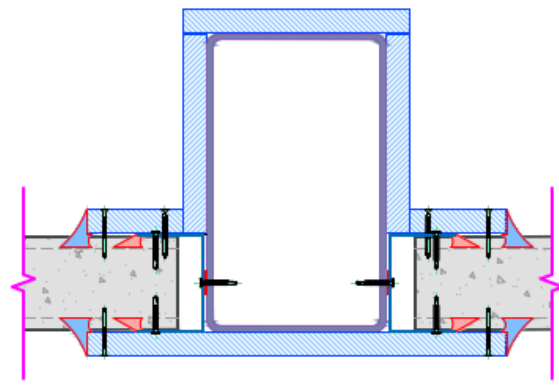


Figure 47 Horizontal stack detail option 8



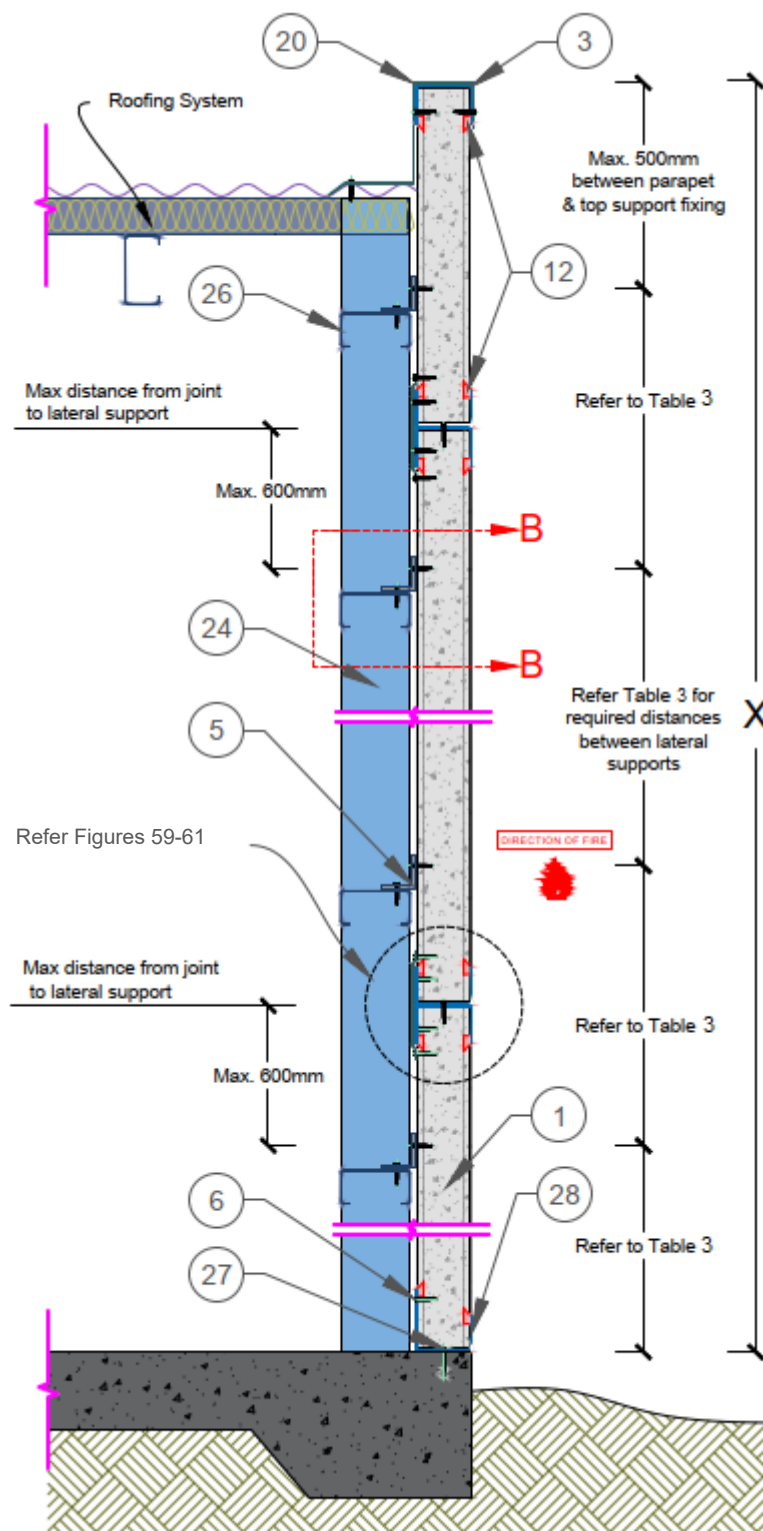


Figure 50 Speedpanel wall with unprotected framing at one side – C-purlin option

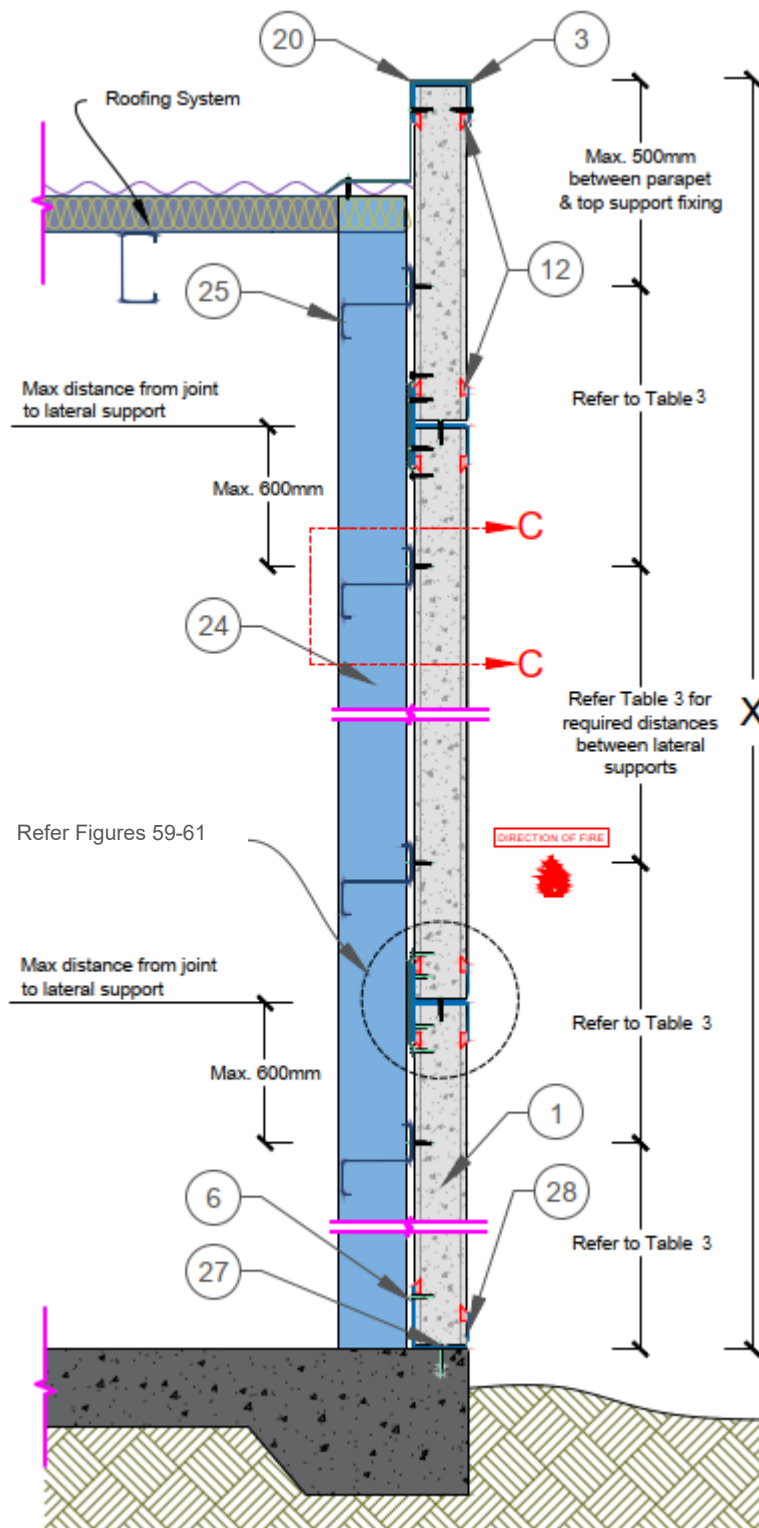


Figure 51 Speedpanel wall with unprotected framing at one side – Z-purlin option

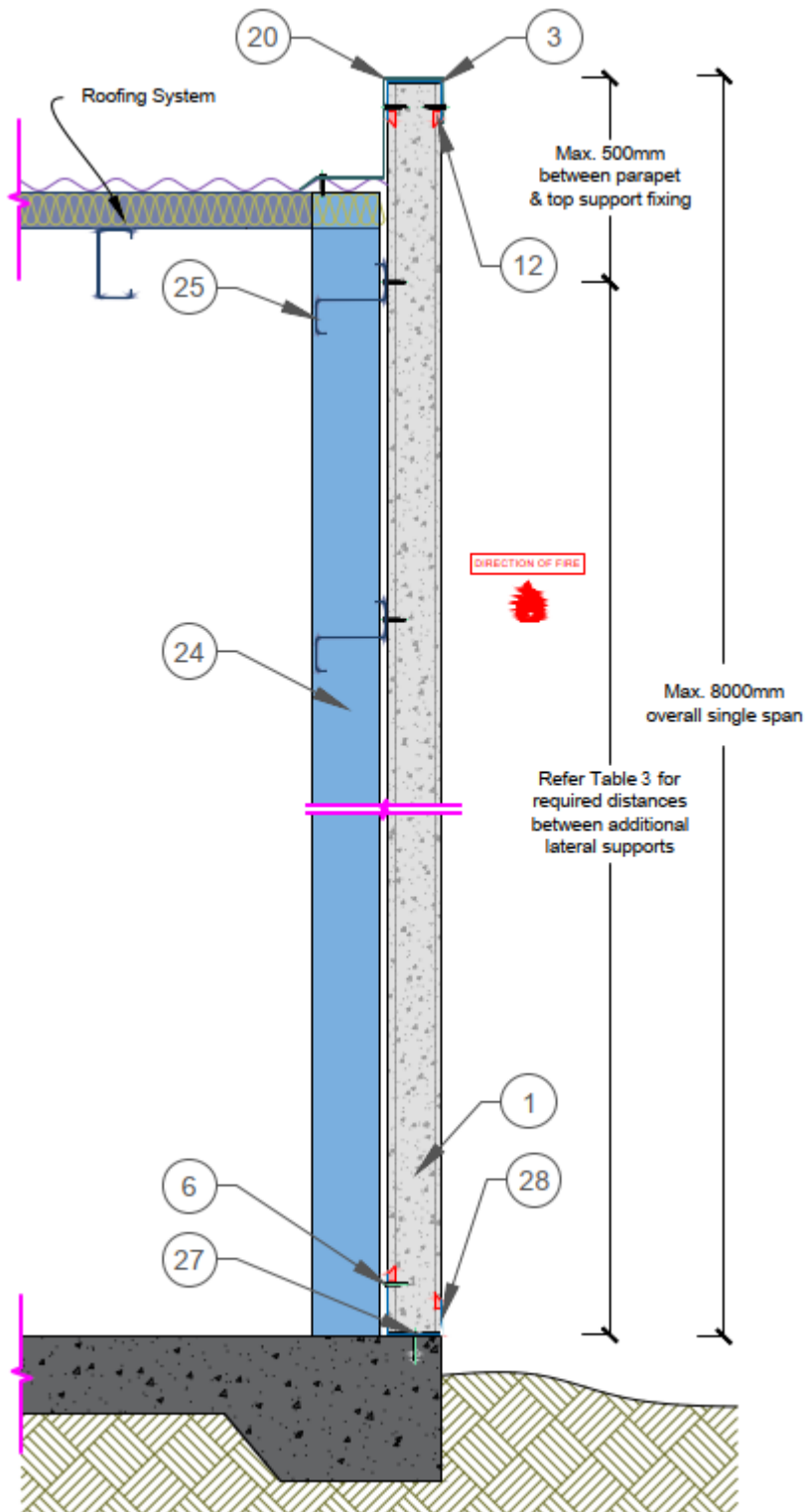


Figure 52 Speedpanel single span wall with unprotected framing at one side

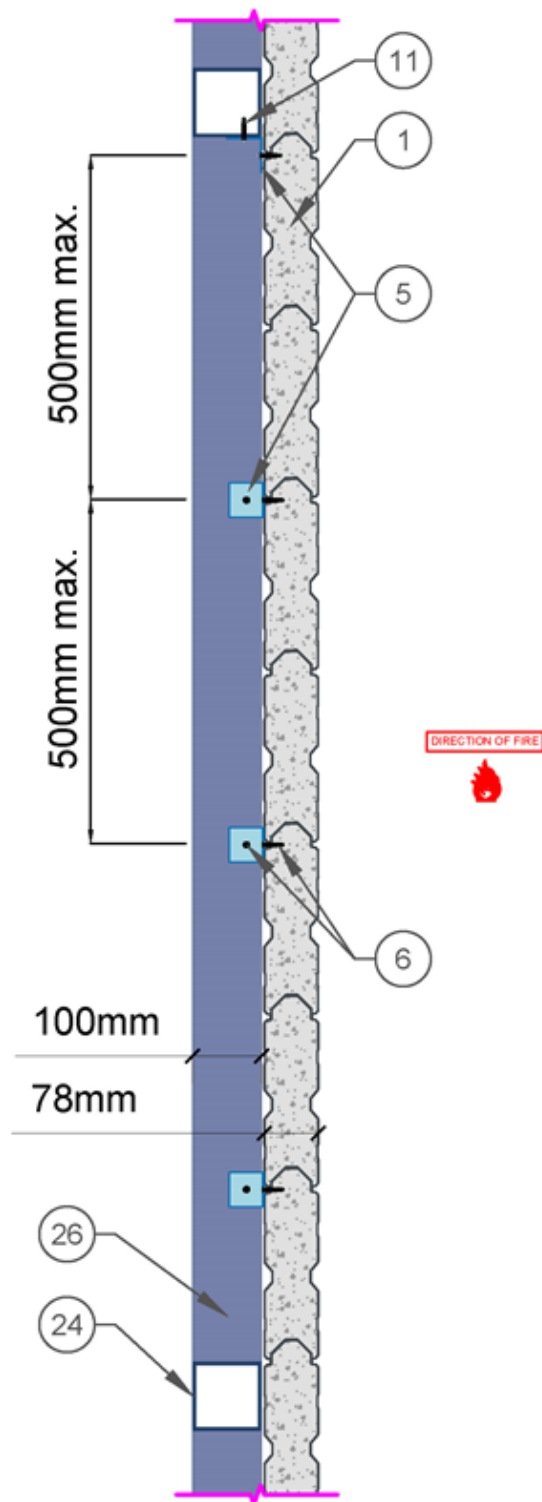


Figure 53 Speedpanel wall with unprotected framing – C-purlin (plan view)

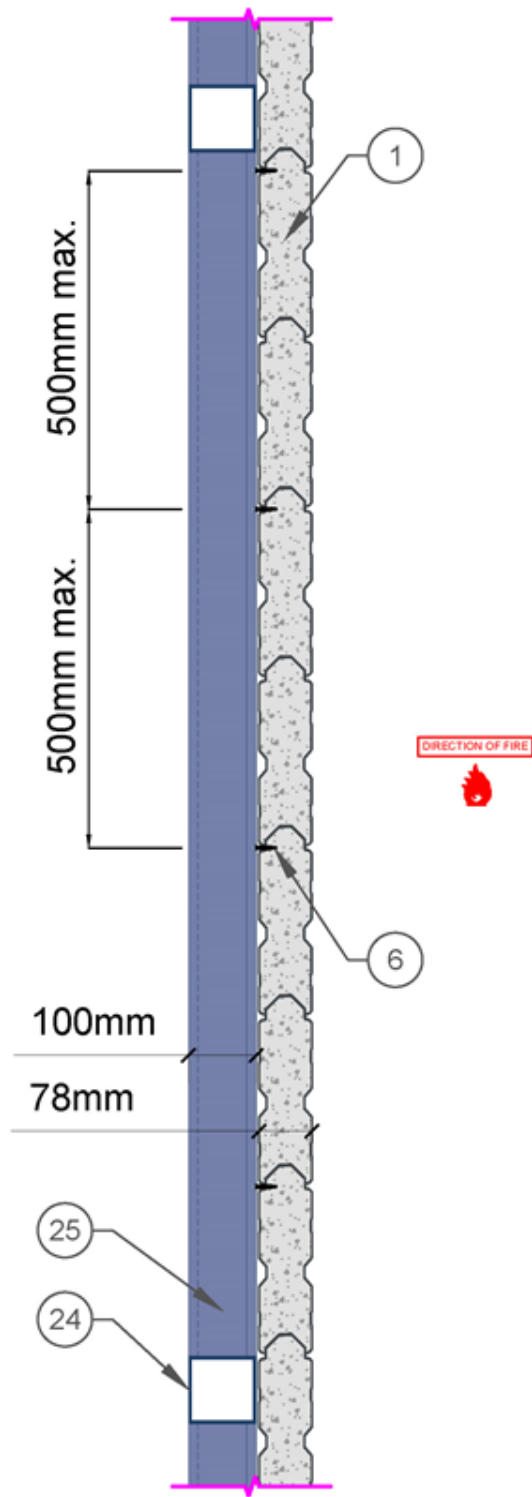


Figure 54 Speedpanel wall with unprotected framing – Z-purlin (plan view)

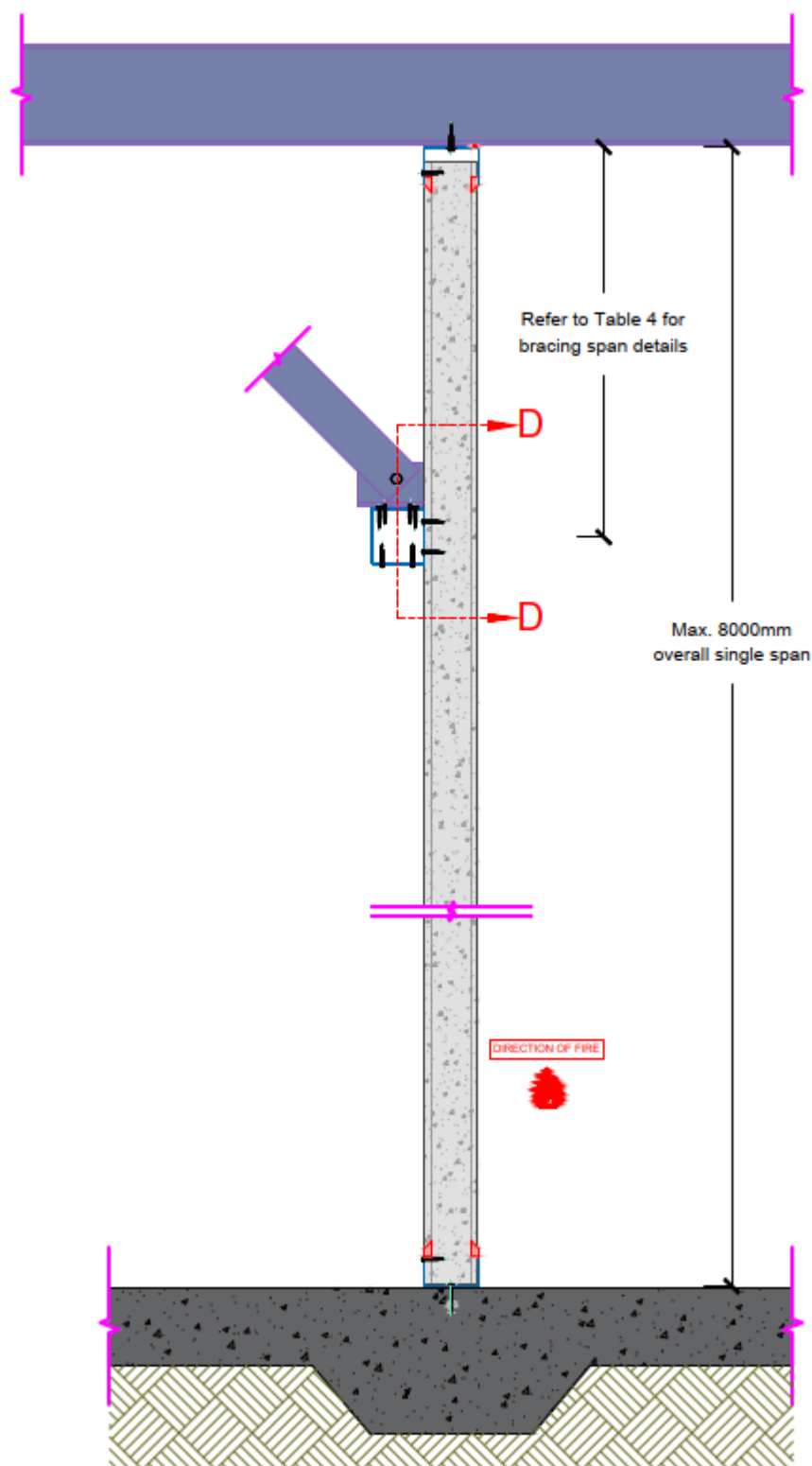


Figure 55 Speedpanel wall with bracing system on unexposed side

Note: Refer Table 4 for bracing height requirements corresponding to overall height of the single span wall. The design of the overhead structural support and subsequent protection requirements of the structural support are outside the scope of this assessment.

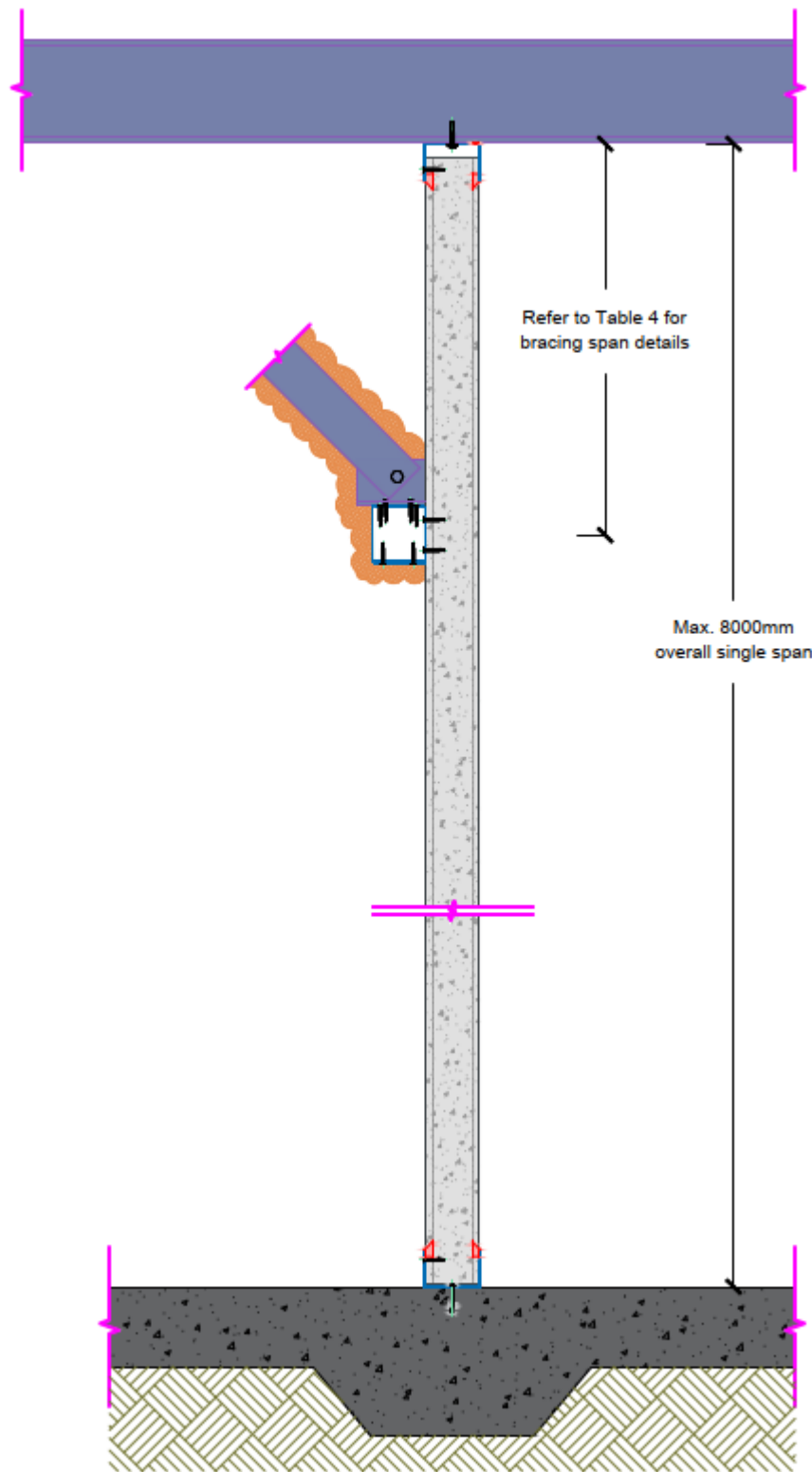


Figure 56 Speedpanel wall with protected bracing system on one side

Note: Refer Table 4 for bracing height requirements corresponding to overall height of the single span wall. The design of the overhead structural support and subsequent protection requirements of the structural support are outside the scope of this assessment.

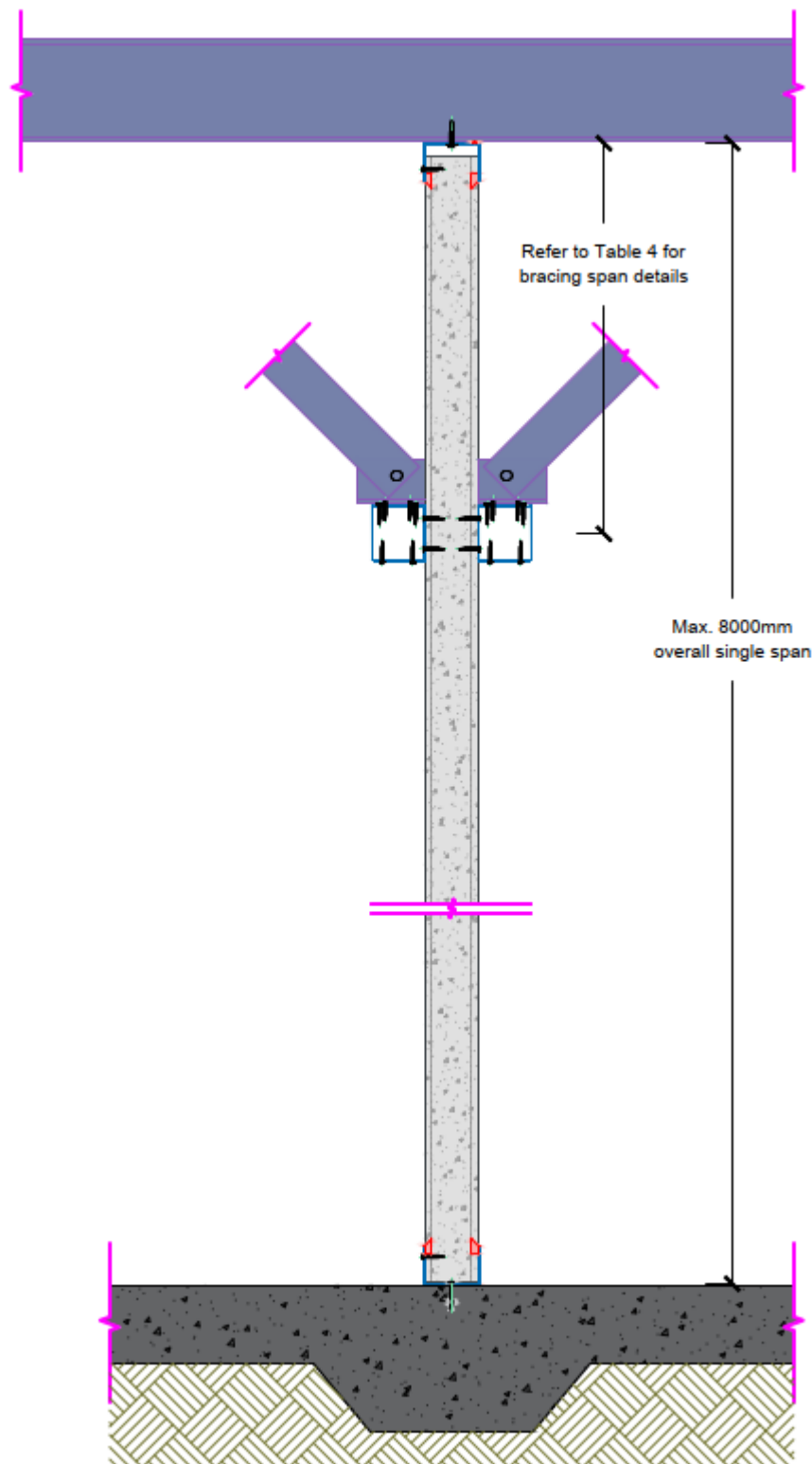


Figure 57 Speedpanel wall with bracing systems on both sides

Note: Refer Table 4 for bracing height requirements corresponding to overall height of the single span wall. The design of the overhead structural support and subsequent protection requirements of the structural support are outside the scope of this assessment.

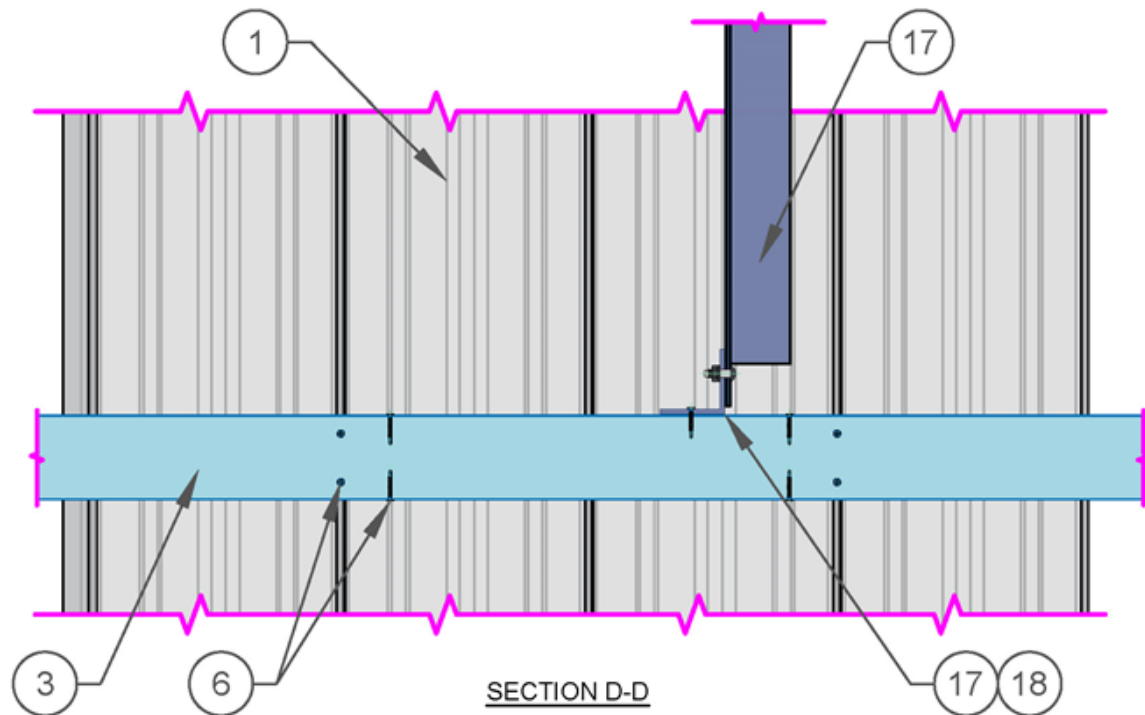


Figure 58 Section D-D – Side elevation of bracing system

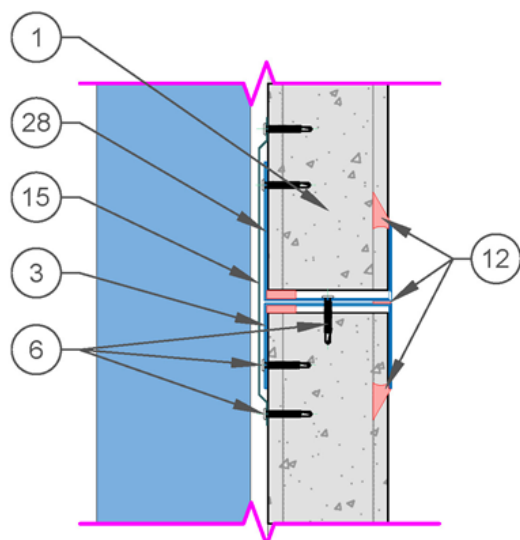


Figure 59 Protection of junction option 1

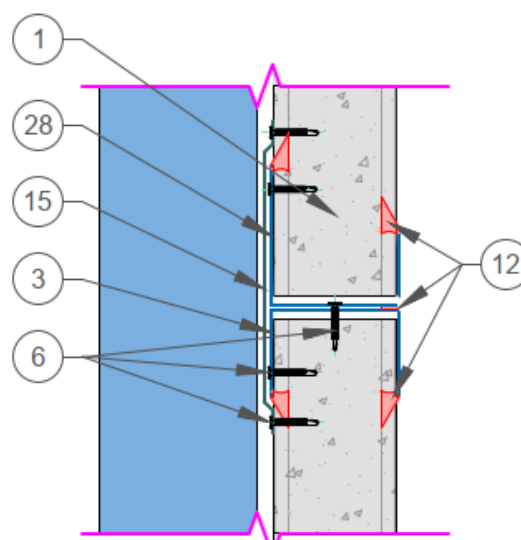


Figure 60 Protection of junction option 2

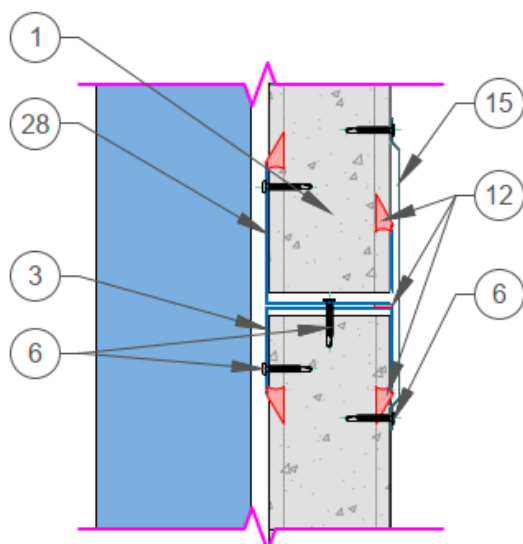


Figure 61 Protection of junction option 3

4. Referenced test standard

The referenced assessment report is prepared with reference to the requirements of AS 1530.4:2014.

5. Formal assessment summary

On the basis of the discussion presented in this report, it is the opinion of this testing authority that if the tested prototype described in Section 2 had been varied as in Section 3, it will achieve the fire resistance levels (FRL) as stated in Table 5 if tested in accordance with the test method referenced in Section 4 when subject to the requirements of Section 7.

Table 5 Assessment summary

Construction	Exposure	Maximum spans for 51mm and 64mm Speedpanel (m)		Maximum spans for 78mm thick Speedpanel (m)				Reference figures	FRL
		Horizontal	Vertical span	Horizontal	Vertical	single vertical panel	overall wall height		
Base	Either	4.5	5.0	4.5	6.0	-	-	Figure 1 to Figure 6	- /60/60 for 51mm - /90/90 for 64mm - /120/120 for 78mm
Head	One way	4.5	5.0	4.5	6.0	-	-	Figure 7 to Figure 10, Figure 14 to Figure 16, Figure 18 and Figure 19	
	Either	4.5	5.0	4.5	6.0	-	-	Figure 11 to Figure 13, Figure 17, Figure 20 and Figure 21	
Corner	One way	4.5	5.0	4.5	6.0	-	-	Figure 22 to Figure 27	
	Either	4.5	5.0	4.5	6.0	-	-	Figure 28 to Figure 33	
T-Junction	One way	4.5	5.0	4.5	6.0	-	-	Figure 34 to Figure 37	- /120/120
	Either	4.5	5.0	4.5	6.0	-	-	Figure 38 and Figure 39	
Horizontal stack	One way	-	-	4.5	-	-	Unlimited	Figure 40 to Figure 43	
	Either	-	-	4.5	-	-	Unlimited	Figure 44 to Figure 47	
Horizontal supporting Vertical panel	One way	-	-	4.5	-	3.0	Unlimited	Figure 48 and Figure 49	
78mm vertical stack external wall system*	One way	-	-	-	-	6.0	14.0	Figure 50, Figure 51, Figure 53, and Figure 54	

Construction	Exposure	Maximum spans for 51mm and 64mm Speedpanel (m)		Maximum spans for 78mm thick Speedpanel (m)				Reference figures	FRL
		Horizontal	Vertical span	Horizontal	Vertical	single vertical panel	overall wall height		
78mm single span vertical wall	One way	-	-	-	-	8.0	8.0	Figure 52 to Figure 54	-/120/120
78mm braced vertical wall**	One way	-	-	-	-	8.0	8.0	Figure 55 to Figure 58	
	Either	-	-	-	-	8.0	8.0	Figure 56 to Figure 58	
Back-to-back connection	One way	-	-	-	-	-	-	Figure 59 to Figure 61	
* Check Table 3 for lateral restraint requirements ** Check Table 4 for bracing spacing requirements and confirm design with Speedpanel prior to construction									

6. Direct field of application

The application of the results of the referenced assessment report is to walls exposed to fire from one or either way as stipulated in Table 5.

7. Requirements

The referenced assessment report details the methods of construction, test conditions and assessed results that would have been expected had the specific elements of construction described herein been tested in accordance with AS 1530.4:2014.

It is a requirement that the structural steel members are designed appropriately by an accredited structural engineer by considering all the possible loading, bending moment and torsion effects. Design of structural steel members is not a part of the scope of this assessment.

Self-weight of each horizontally stacked Speedpanel is expected to transfer to structural steel column via C-tracks.

It is required that the lateral load capacity of the head track and base track be verified by the structural engineer for the lateral load capacity under ambient loading conditions.

It is required that the support construction above and below the wall be capable of providing adequate vertical and lateral support for the FRL period.

All services shall be supported in the manner in which they are assessed as described in Section 3. Any further variations with respect to size, constructional details, loads, stresses, edge or end conditions, other than those identified in this report, may invalidate the conclusions drawn in this report.

The data, methodologies, calculations and conclusions documented in this report specifically relate to the assessed systems and must not be used for any other purpose.

This report and 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 this report as a result.

8. Validity

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

This assessment is based on information and experience available at the time of preparation. 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 this report be reviewed on or, before, the stated expiry date.

This assessment represents our opinion about the performance likely to be demonstrated on a test in accordance with AS 1530.4:2014, based on the evidence referred to in this report.

This assessment is provided to the Speedpanel Holdings Pty Ltd for its own purposes and we cannot express an opinion on whether it will be accepted by building certifiers or any other third parties for any purpose.

9. Authority

9.1 Applicant undertakings and conditions of use

By using this report as evidence of compliance or performance, the applicant(s) confirms that:

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

9.2 General conditions of use

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