

luxewall®

flameguard®

Fire Rated Wall System 90/90/90



Leaders in Thermal & Architectural Building Solutions

Technical Drawings

v4 - Current 08/12/2023

Contents

01. LWF-MW-FR044-REV01 - Roof Eave Traditional Roof - Standard.....	3
02. LWF-MW-FR042-REV01 - Roof Eave Insulated Roof - Standard.....	4
03. LWF-MW-FR024-REV01 - Gable End Construction Traditional Roof.....	5
04. LWF-MW-FR022-REV01 - Gable End Construction Insulated Panel Roof.....	6
05. LWF-MW-FR034-REV01 - Parapet Above Roof Line Insulated Panel Roof Option 1.....	7
06. LWF-MW-FR036-REV01 - Parapet Above Roof Line Insulated Panel Roof Option 2.....	8
07. LWF-MW-FR038-REV01 - Parapet Above Roof Line Traditional Trussed Roof.....	9
08. LWF-MW-FR010-REV01 - Boxed Gutter-Parapet Insulated Panel Roof.....	10
09. LWF-MW-FR011-REV01 - Boxed Gutter-Parapet Traditional Roof.....	11
10. LWF-MW-FR018-REV01 - External Wall with Gutter Insulated Panel Roof.....	12
11. LWF-MW-FR040-REV01 - Party-Wall System Traditional Framing.....	13
12. LWF-MW-FR008-REV01 - Boundary Wall System Insulated Panel Roof.....	14
13. LWF-MW-FR016-REV01 - External Corner Detail.....	15
14. LWF-MW-FR002-REV01 - Base Connection Detail to Slab.....	16
15. LWF-MW-FR027-REV01 - Panel Fixing Detail 900mm Wide.....	17
16. LWF-MW-FR029-REV02 - Panel Fixing Detail 1200-1140mm Wide.....	18
17. LWF-MW-FR006-REV00 - Base Connection to Slab Non-Recessed.....	19
18. LWF-MW-FR020-REV00 - External Wall with Gutter Traditional Framing.....	20
19. LWF-MW-FR031-REV00 - Panel Junction.....	21
20. LWF-MW-FR014-REV00 - Construction Overview Wall Wrap.....	22
21. LWF-MW-FR004-REV00 - Base Connection Suspended Panel.....	23
22. LWF-MW-FR046-REV00 - Shelf Attachment.....	24
23. LWF-MW-FR048-REV01 - Butt Joint No External Access.....	25
24. LWF-MW-FR050-REV01 - Inter-Floor Finishing No External Access.....	26
25. LWF-MW-FR052-REV01 - Parapet Option 1 No External Access.....	27
26. LWF-MW-FR054-REV01 - Parapet Option 2 No External Access.....	28
27. LWF-MW-CL001-REV00 - Penetrations Plumbing Fixture.....	29
28. LWF-MW-CL002-REV00 - Penetrations Switch Box - GPO.....	30

*Note: The structural adequacy of the wall system is subject to sufficient structural capacity being provided by the supporting timber/steel frame and panel fixings. The design structural engineer must ensure the timber/steel framing and panel fixings have sufficient capacity to support the design actions applied to the wall system and panel weight for a period of 60 and 90 minutes.

Timber Frame:

The design structural engineer should take the char depth shown in Table 1 into account and conduct structural capacity calculations as stated in AS 1720.1 – to ensure the timber framing and panel fixings have sufficient capacity to support the load, including panel weight for a period of 60 minutes and 90 minutes.

Table 1 Effective char depth for MGP10 Radiata pine - LuxeWall® FlameGuard® all thicknesses

Timber frame surface	Charring depth at 60 minutes	Charring depth at 90 minutes
Surface fixed to LuxeWall® FlameGuard® panel	14 mm	22 mm
All surfaces perpendicular to LuxeWall® FlameGuard® panel	7 mm	11 mm
Unexposed surface, fixed to plasterboard	0 mm	7 mm

Note: The above effective char depths include 7 mm thick zero-strength as stated in AS/NZS 1720.4.

Steel Frame:

The design structural engineer should take the steel temperature in Table 2 into account and conduct structural capacity calculations as stated in AS/NZS 4600 – to ensure the steel framing and panel fixings would have sufficient capacity to support the load, including panel weight for a period of 60 minutes and 90 minutes as appropriate.

Table 2 Steel stud temperature (°C)

Time (minutes)	50 & 75mm LuxeWall® FlameGuard®	100 & 150mm LuxeWall® FlameGuard®
60	300	200
90	500	250

LWF-MW-FR044 REV01

Diagram illustrating the construction details of a fire-rated wall and roof assembly, showing the connection between the wall and the roof structure.

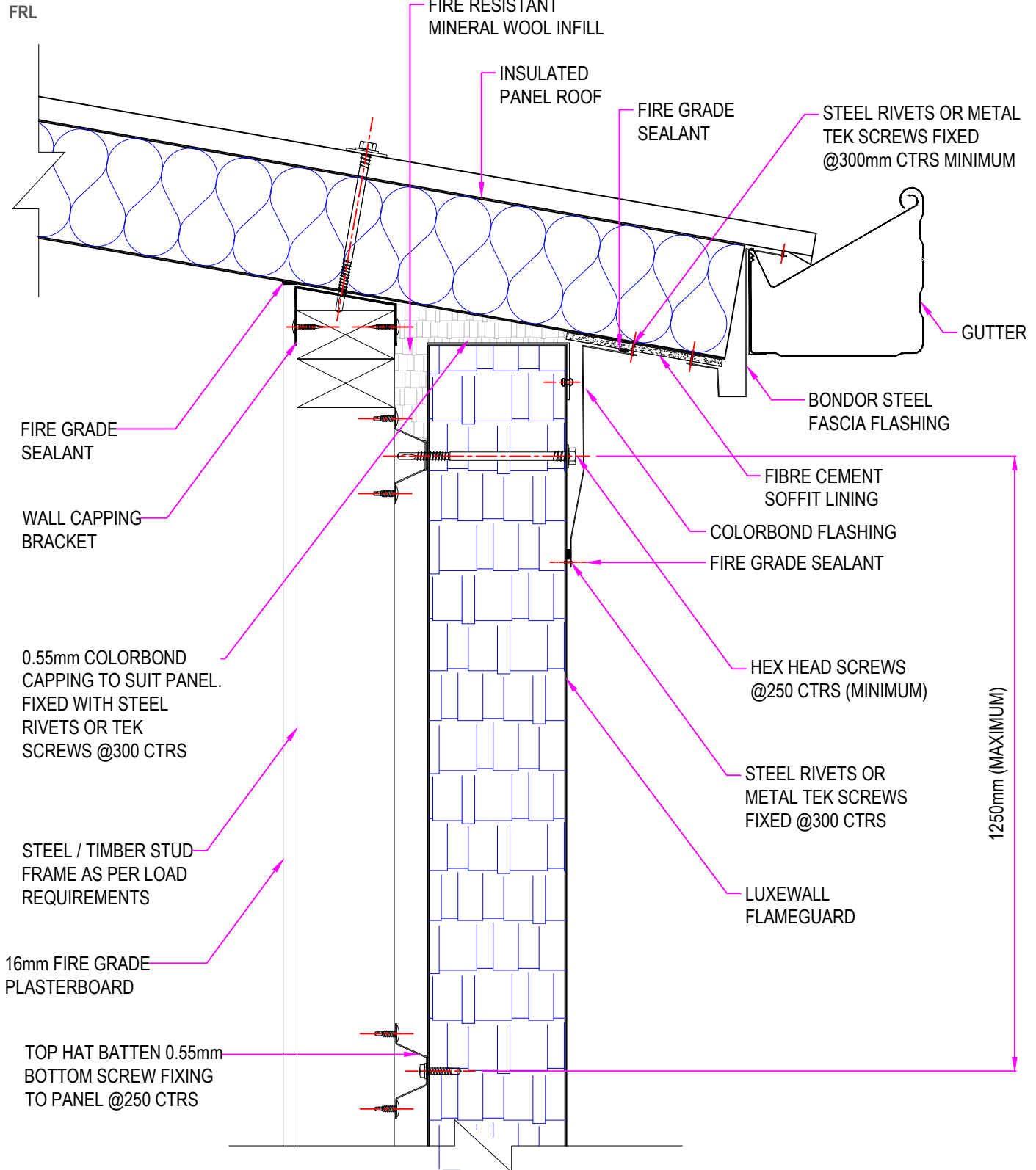
Key components and materials labeled:

- FIRE RESISTANT MINERAL WOOL INFILL
- 25mm HARDWOOD / 800Kg/m³ BLOCKING BETWEEN TRUSSES
- FIRE GRADE SEALANT
- STEEL / TILE ROOF
- FIRE GRADE SEALANT
- WALL FRAME
- 0.55mm COLORBOND CAPPING TO SUIT PANEL. FIXED WITH STEEL RIVETS OR METAL TEK SCREWS @300 CTRS
- 16mm FIRE GRADE PLASTERBOARD
- STEEL / TIMBER STUD FRAME AS PER LOAD REQUIREMENT
- TOP HAT BATTEN 0.55mm BOTTOM SCREW FIXING TO PANEL @250 CTRS
- SOFFIT HANGER
- HEX HEAD SCREW @250 CTRS (MINIMUM)
- FIBRE CEMENT LINING
- LUXEWALL FLAMEGUARD
- 1250mm (MAXIMUM)

- Refer to notes on page 2 for structural adequacy of the wall system.
- We recommend that you should engage your local Bondor® architectural specialist at design stage to ensure the panel system is designed to suit specific project requirements.
- All exposed core material is to be encapsulated with a non-combustible covering in order to achieve BAL ratings of up to BAL-40
- Panel by Bondor®, screw may be by Bondor®, all other items by others.
- Additional construction details are available through the Bondor® Website Client Portal or by contacting a local Bondor® representative. www.bondor.com.au
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Roof Eave Insulated Roof - Standard - 50-150mm Panel 90/90/90

LWF-MW-FR042 REV01



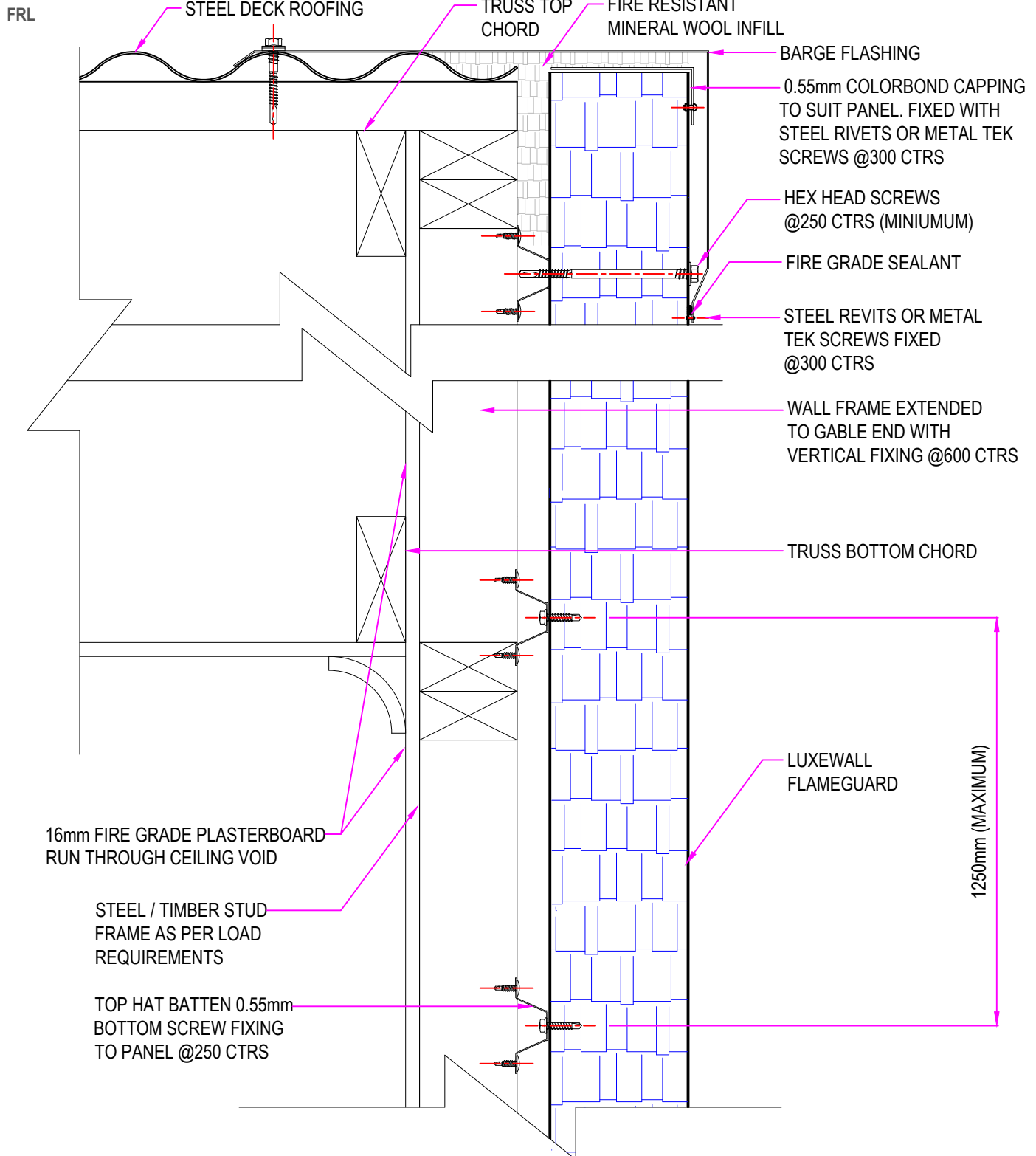
Note:

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Gable End Construction Traditional Roof

LWF-MW-FR024 REV01

- 50-150mm Panel 90/90/90



WALL TO ROOF CONSTRUCTION - PARALLEL TO ROOF TRUSS - TRADITION ROOF

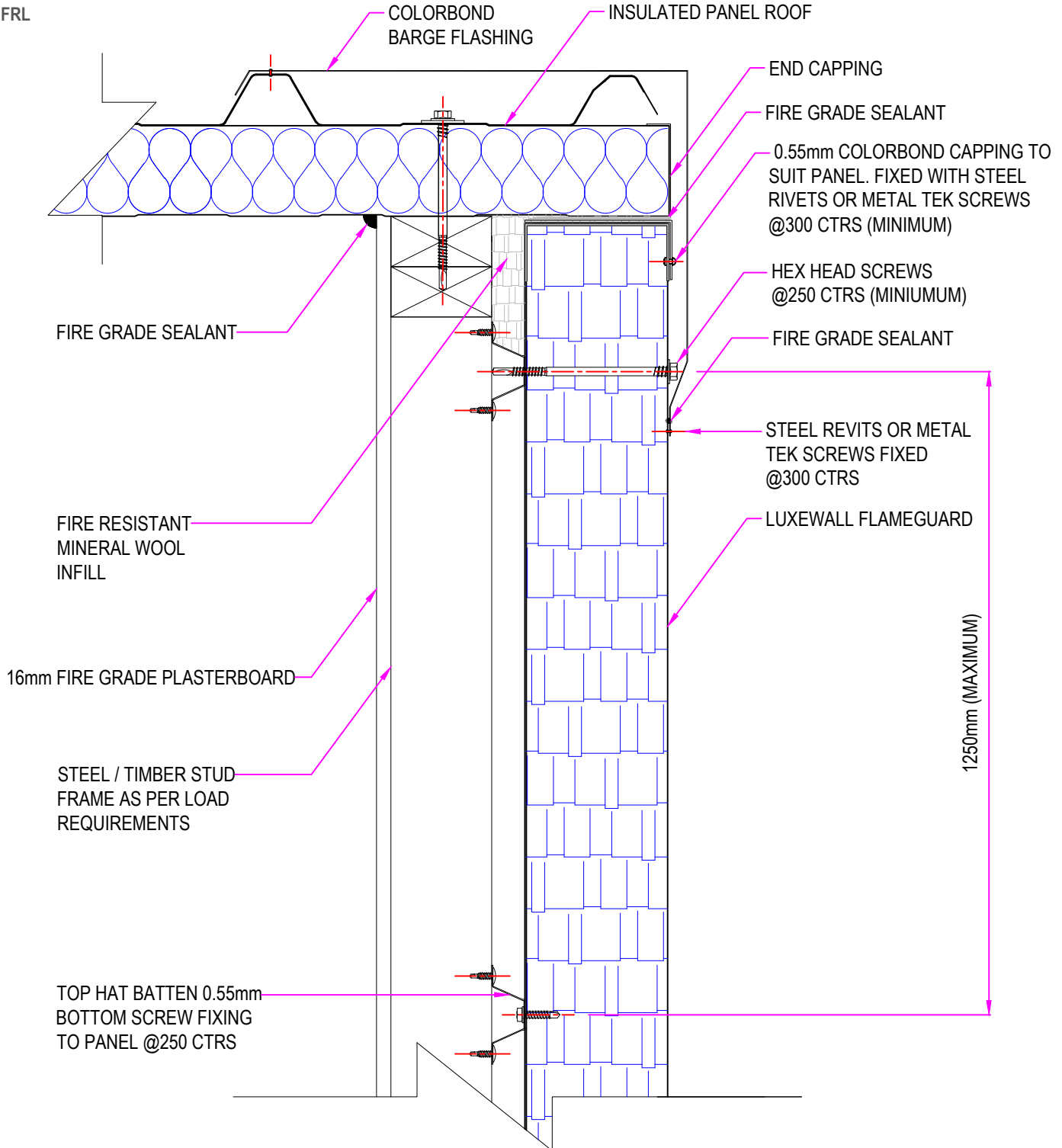
Note:

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Gable End Construction Insulated Panel Roof LWF-MW-FR022 REV01

- 50-150mm Panel 90/90/90

FRL



WALL TO ROOF CONSTRUCTION - PARALLEL TO INSULATED ROOF (GABLE END)

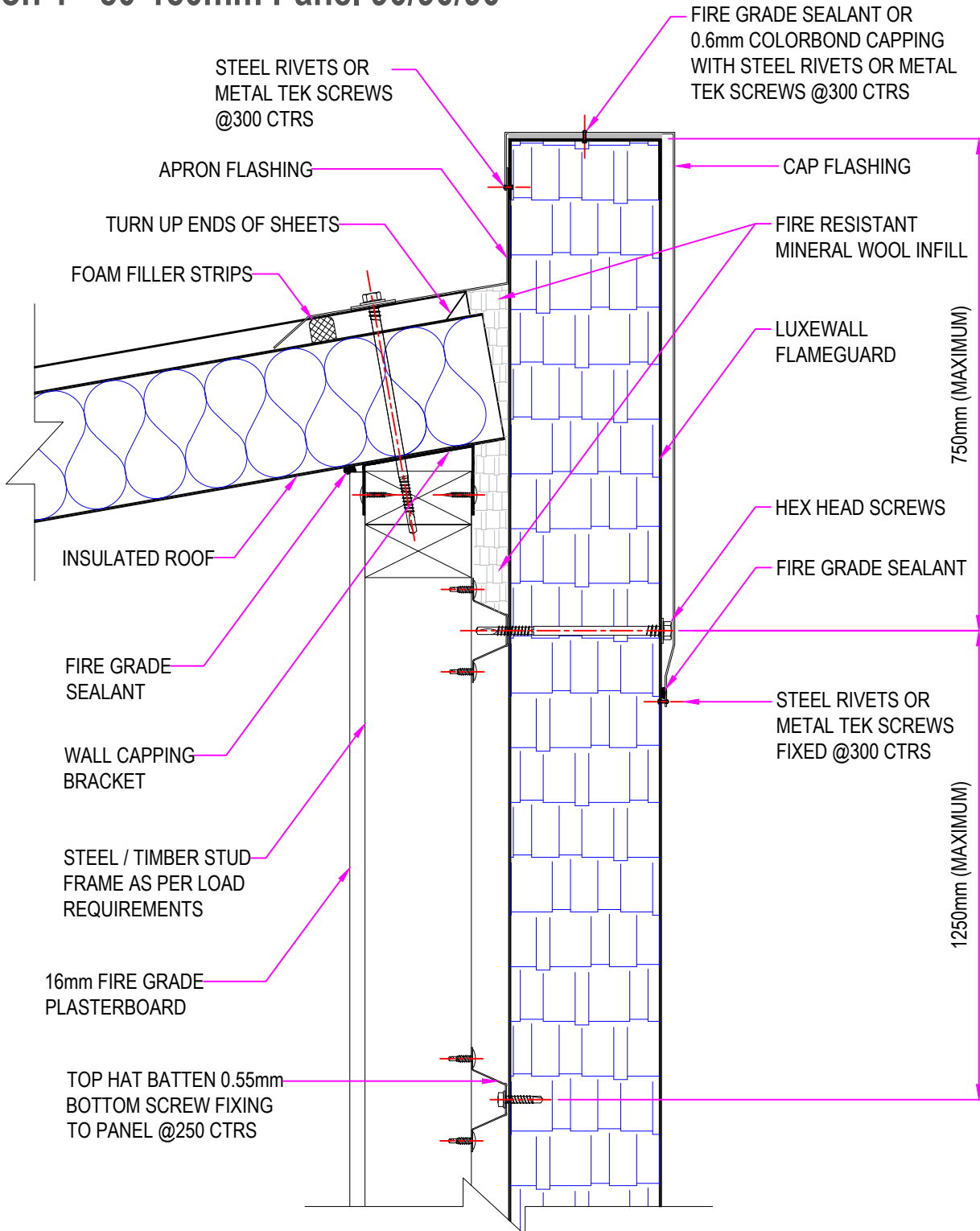
Note:

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Parapet Above Roof Line Insulated Panel Roof LWF-MW-FR034 REV01

Option 1 - 50-150mm Panel 90/90/90

FRL



PARAPET ABOVE ROOF LINE - INSULATED ROOF

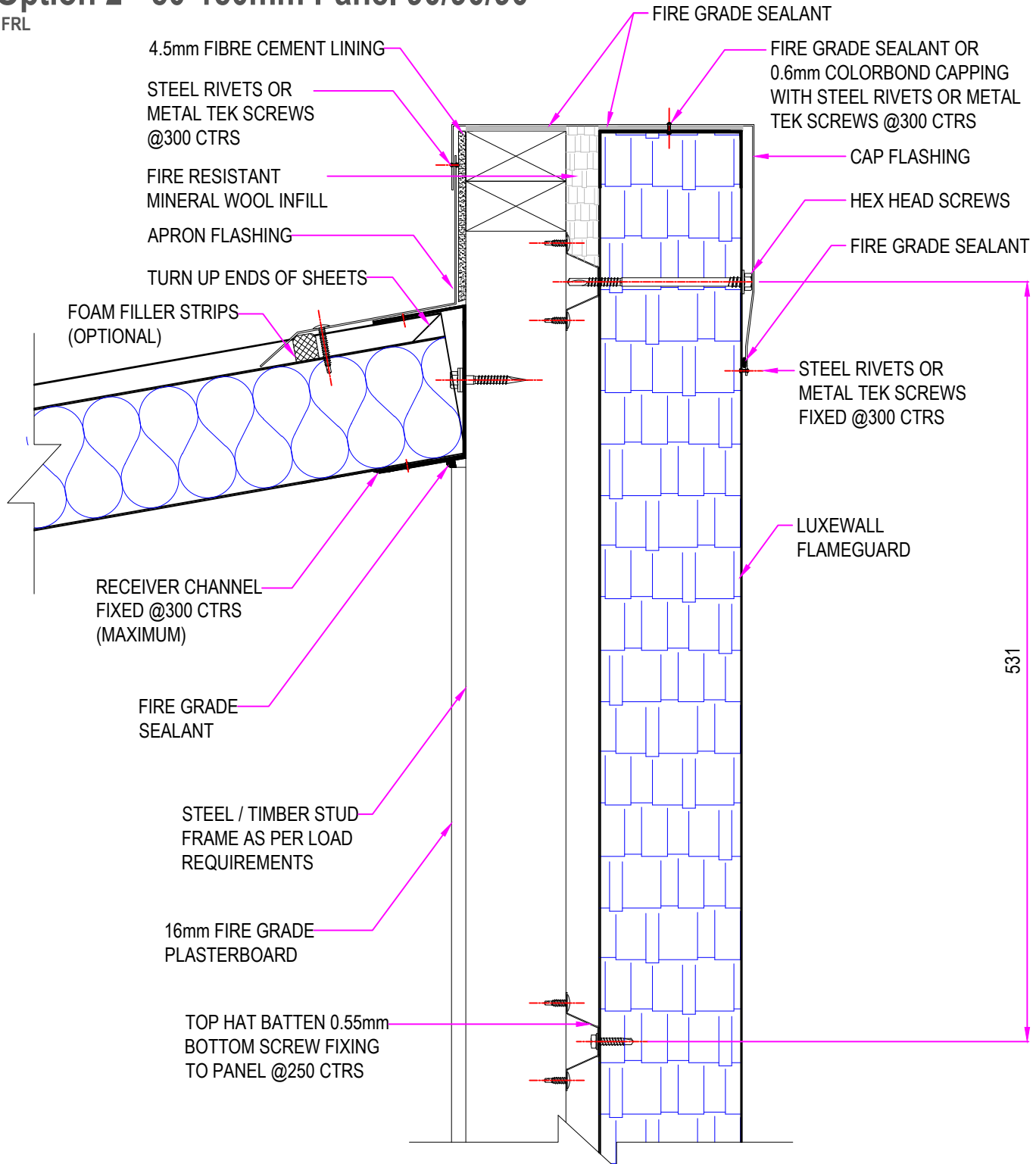
Note:

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Parapet Above Roof Line Insulated Panel Roof LWF-MW-FR036 REV01

Option 2 - 50-150mm Panel 90/90/90

FRL

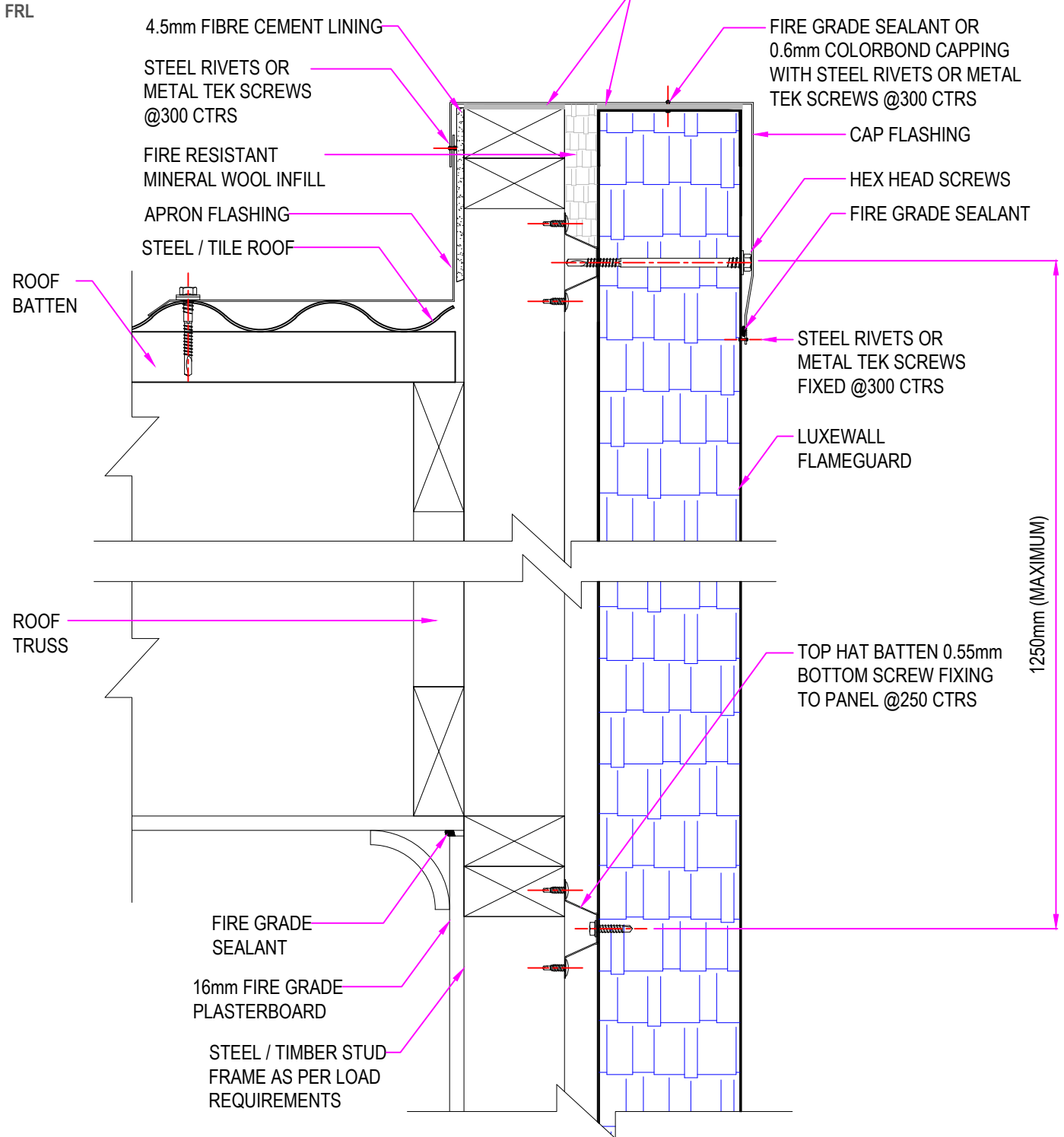


PARAPET ABOVE ROOF LINE - INSULATED ROOF

Note:

- Refer to notes on page 2 for structural adequacy of the wall system.
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Parapet Above Roof Line Traditional Trussed LWF-MW-FR038 REV01 Roof - 50-150mm Panel 90/90/90



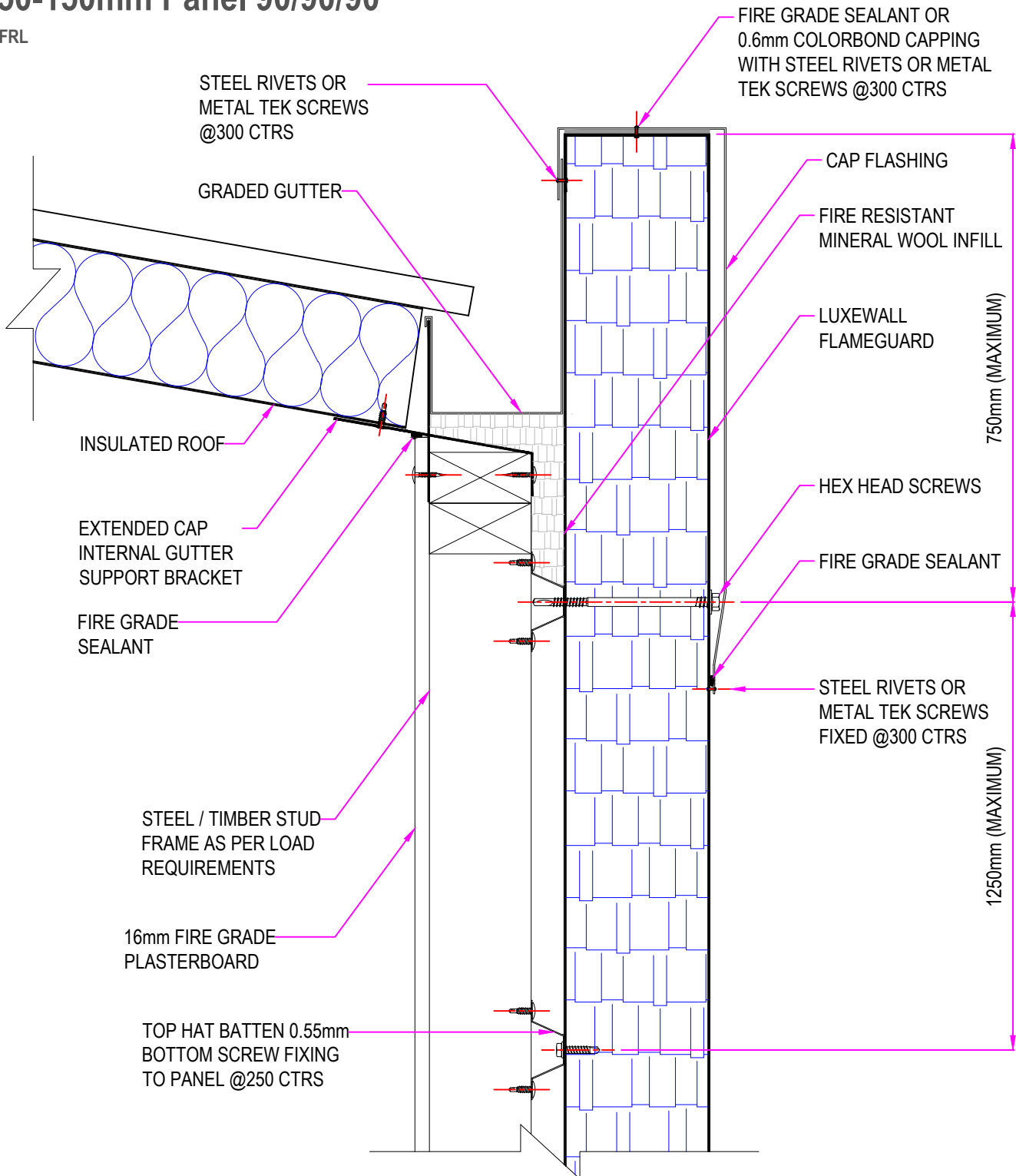
PARAPET ABOVE ROOF LINE - TRADITIONAL TRUSSED ROOF

Note:

- Refer to notes on page 2 for structural adequacy of the wall system.
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Boxed Gutter-Parapet Insulated Panel Roof - LWF-MW-FR010 REV01 50-150mm Panel 90/90/90

FRL



PARAPET WITH INTERNAL GUTTERING

Note:

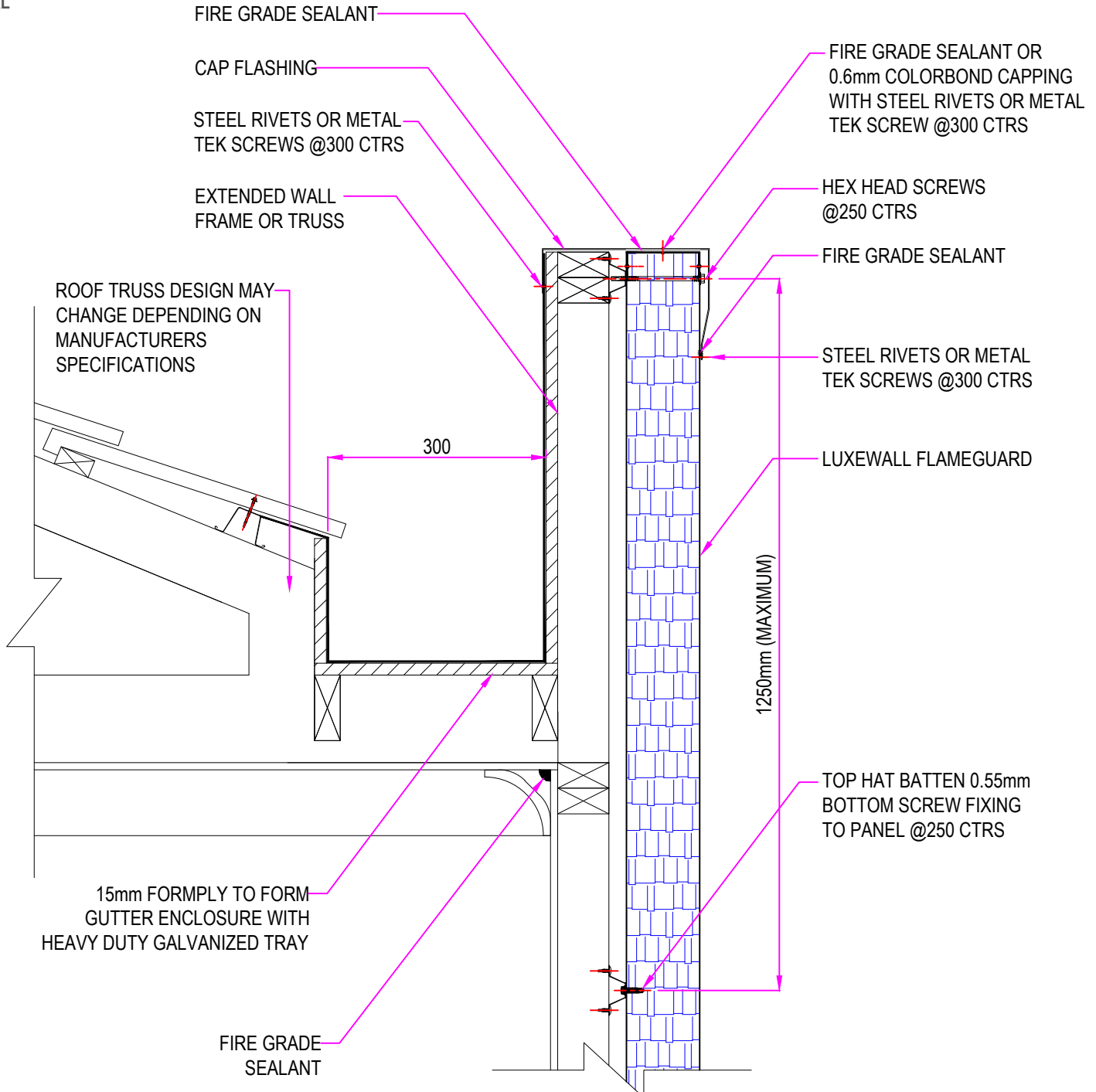
- Refer to notes on page 2 for structural adequacy of the wall system.
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Boxed Gutter-Parapet Traditional Roof -

LWF-MW-FR012 REV01

50-150mm Panel 90/90/90

FRL



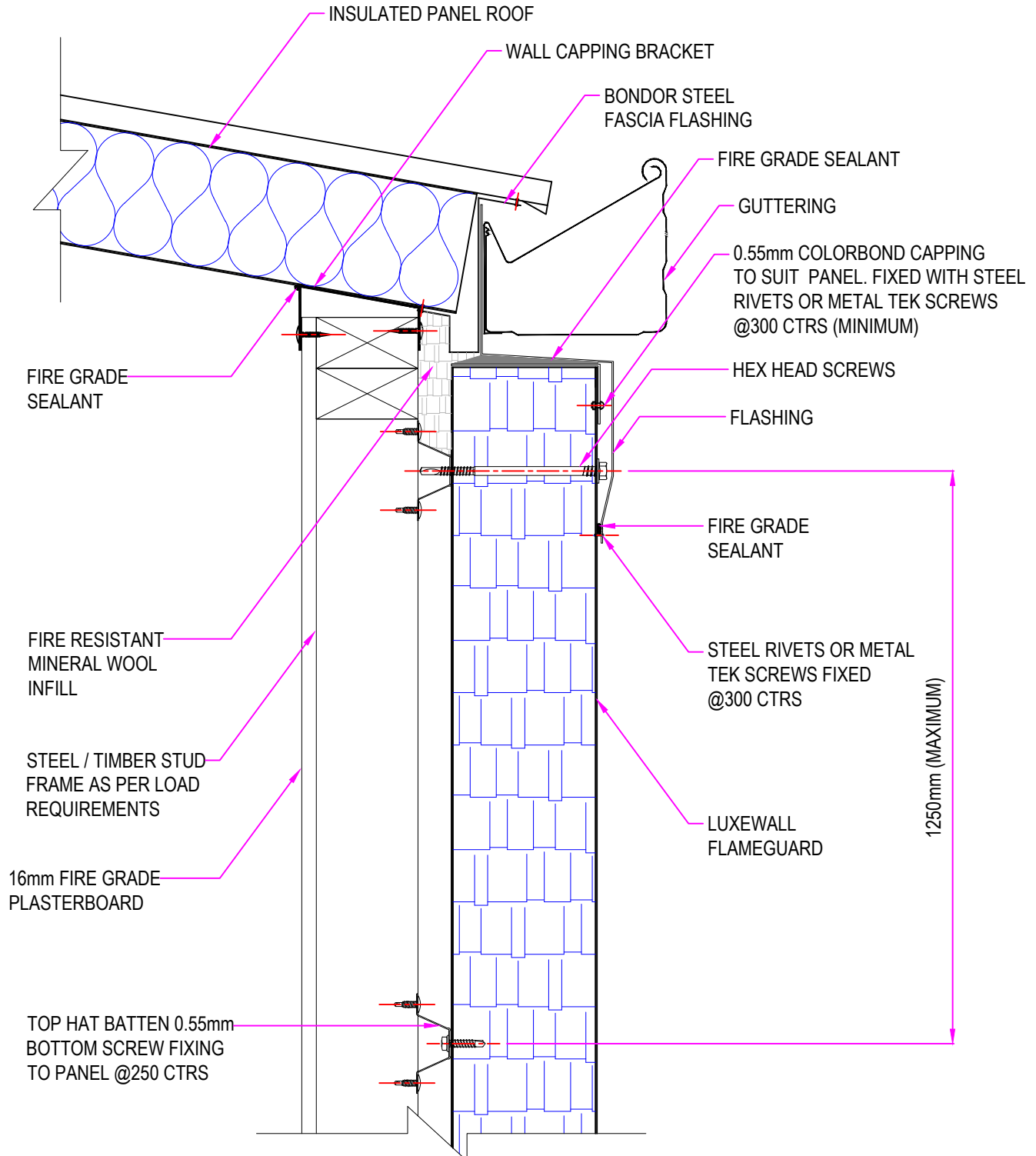
PARAPET WITH TRADITIONAL TRUSSED ROOF / GUTTER SYSTEM

Note:

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External Wall with Gutter Insulated Panel Roof LWF-MW-FR018 REV01 - 50-150mm Panel 90/90/90

FRL



EXTERIOR WALL WITH GUTTER DIRECTLY ON WALL - INSULATED ROOF

Note:

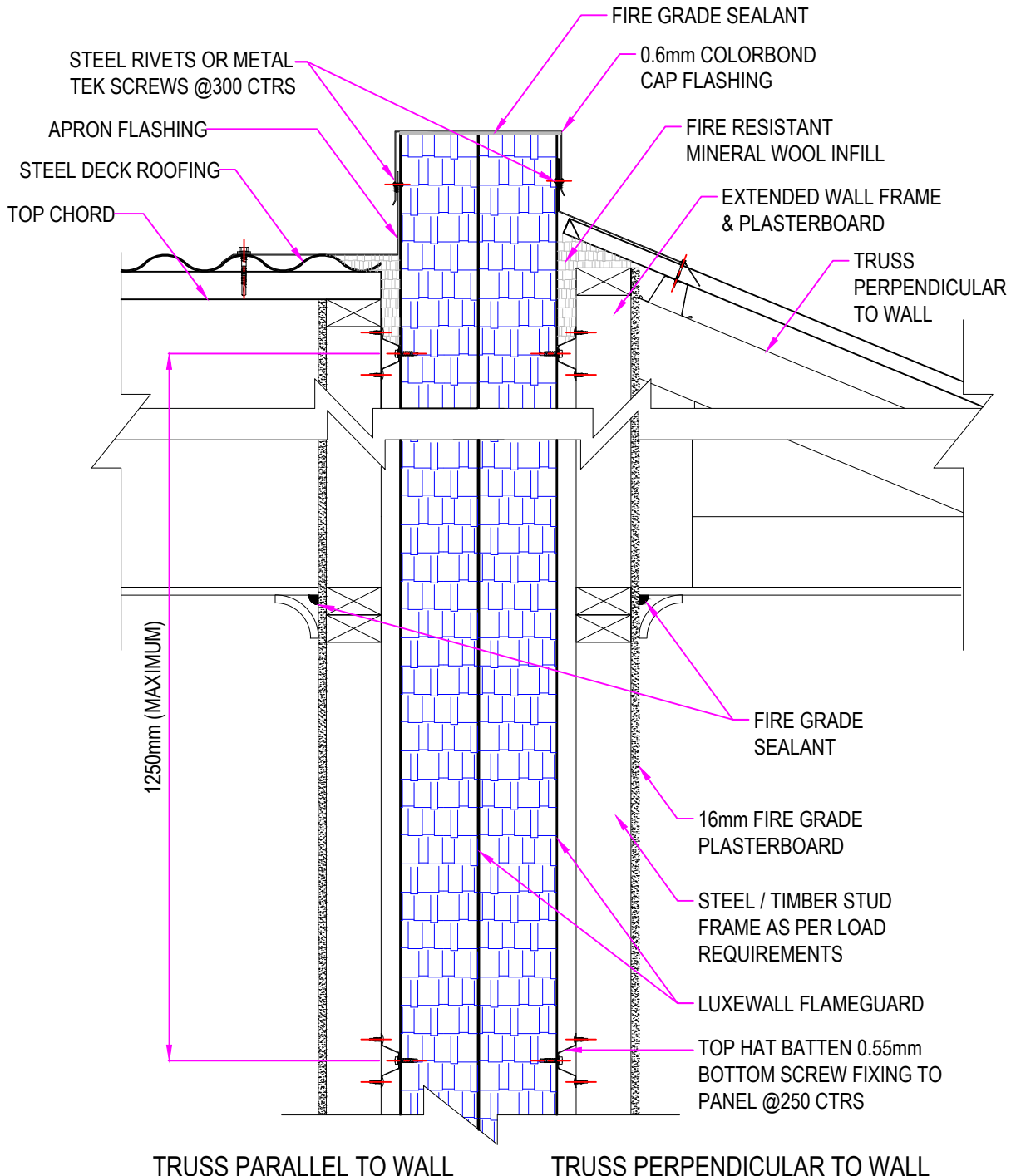
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Party-Wall System Traditional Framing

LWF-MW-FR040 REV01

- 50-150mm Panel 90/90/90

FRL



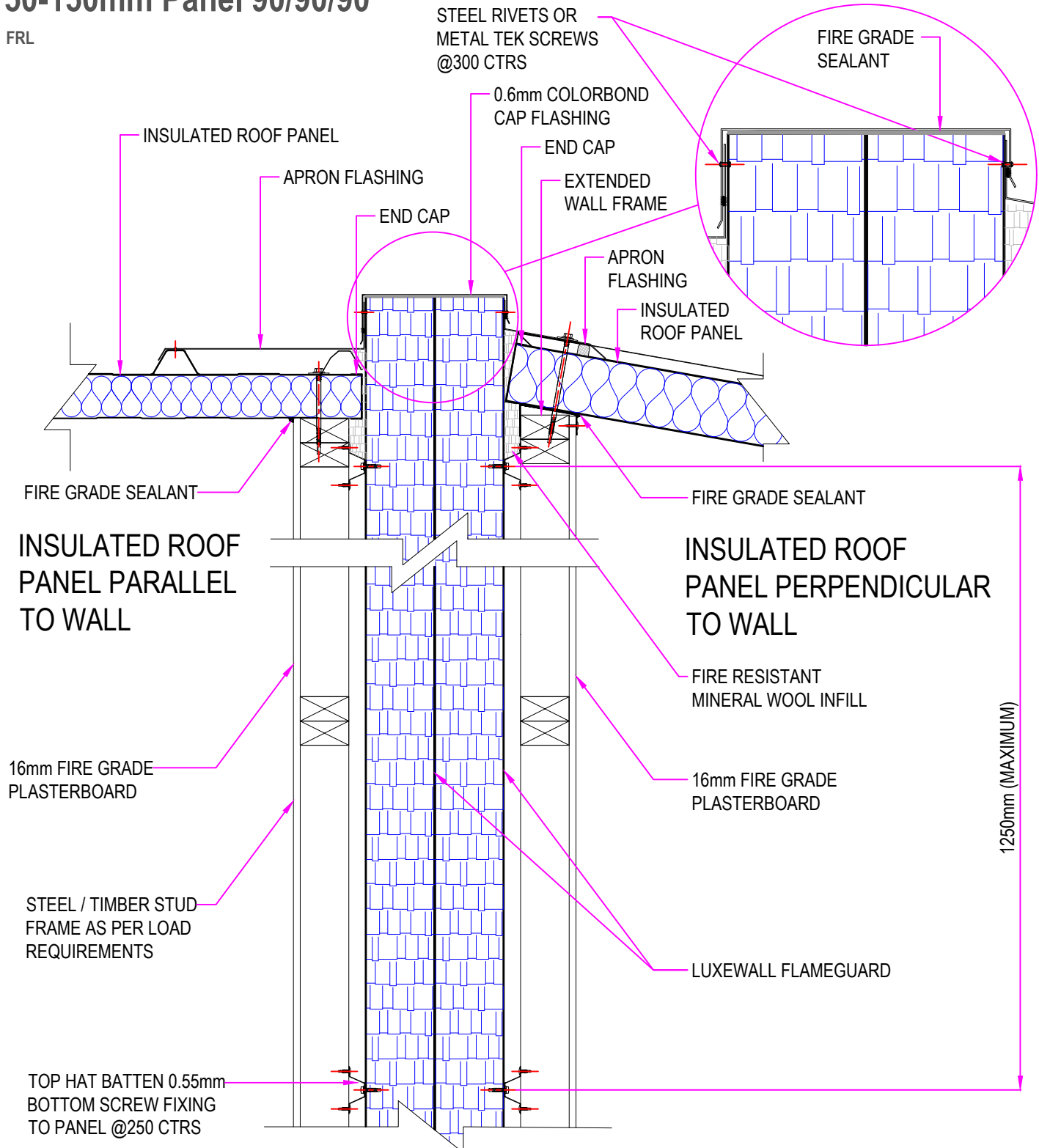
DOUBLE BACK TO BACK PARAPET WITH SINGLE PARAPET FLASHING - TRADITIONAL ROOF

Note:

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Boundary Wall System Insulated Panel Roof - LWF-MW-FR008 REV01 50-150mm Panel 90/90/90

FRL



DOUBLE BACK TO BACK PARAPET WITH SINGLE PARAPET FLASHING -INSULATED ROOF

Note:

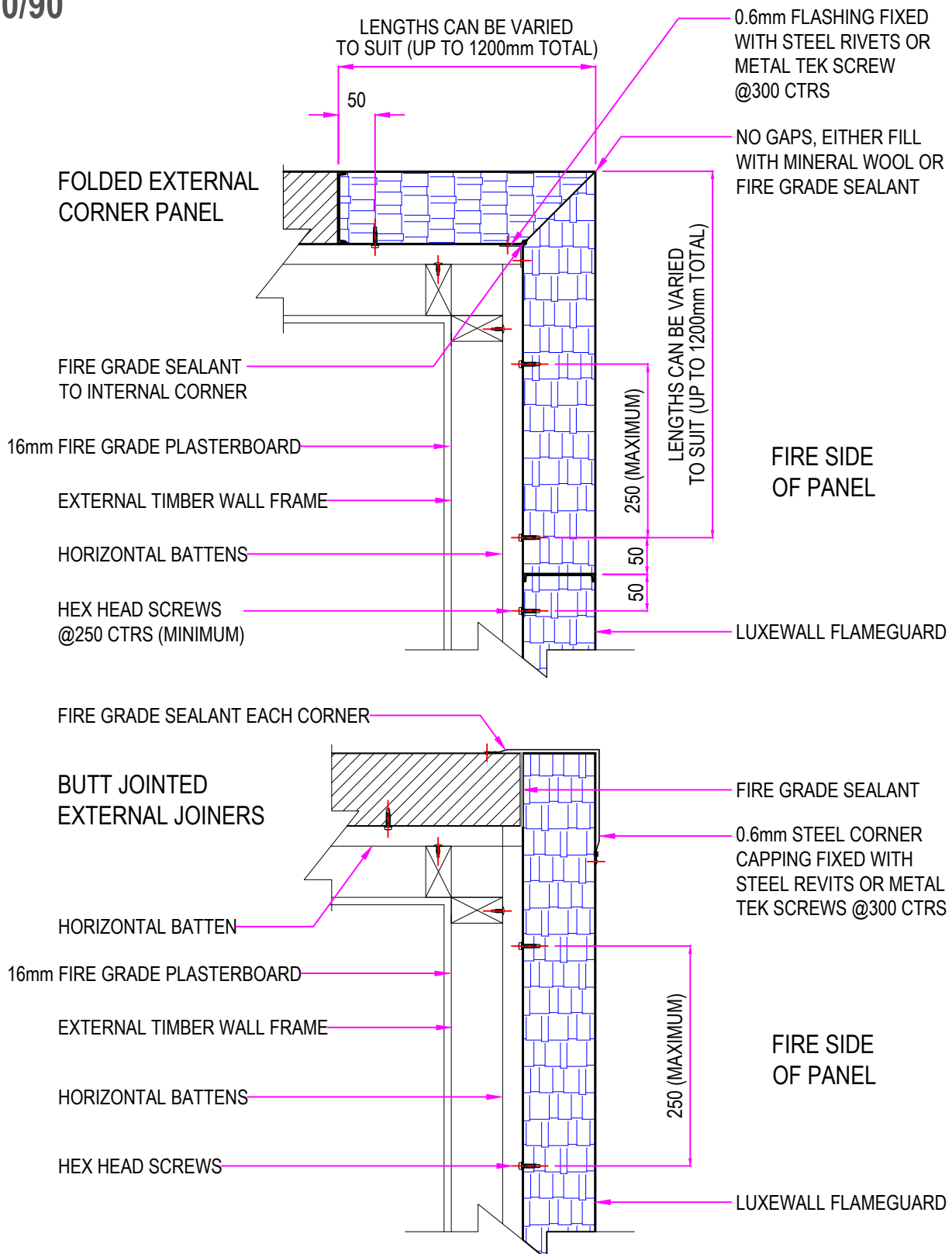
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External Corner Detail - 50-150mm Panel

LWF-MW-FR016 REV01

90/90/90

FRL



Note:

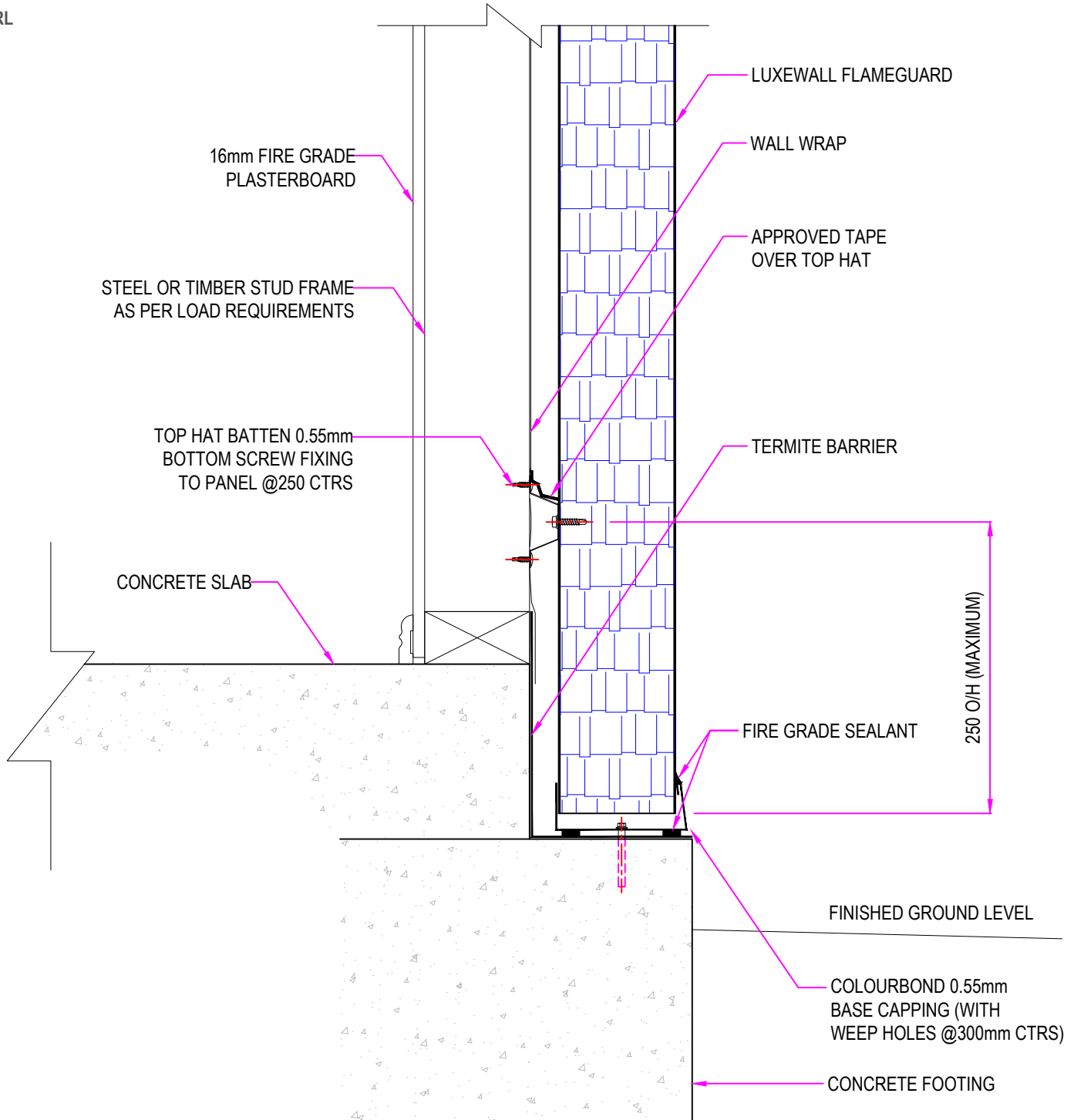
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Base Connection Detail to Slab -

LWF-MW-FR002 REV01

50-150mm Panel 90/90/90

FRL



SINGLE STOREY FOOTING DETAIL

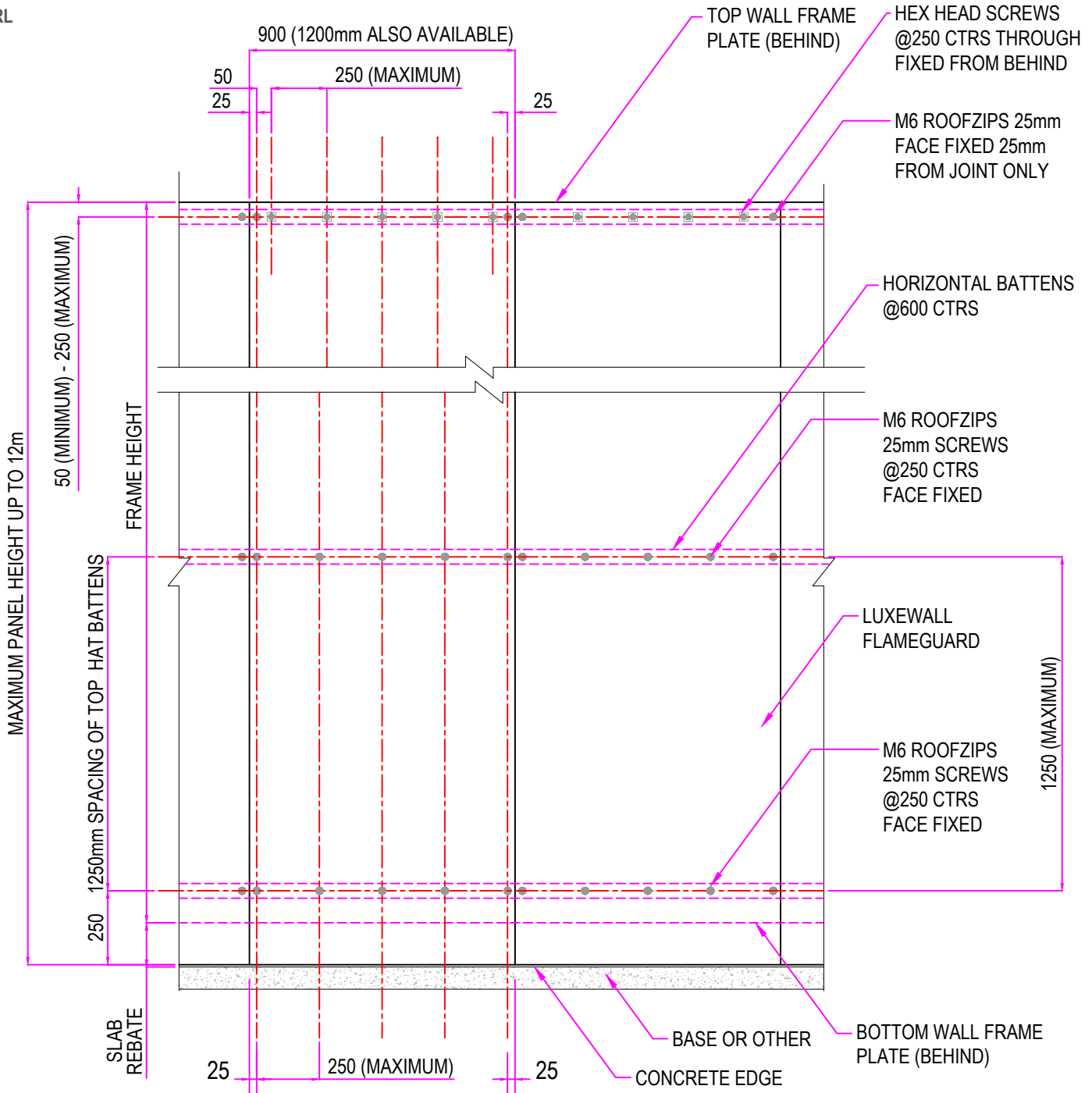
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Panel Fixing Detail 900mm Wide - 50-150mm Panel 90/90/90

LWF-MW-FR027 REV01

FRL



PANEL FIXING DETAIL

SCREW FIXING LEGEND

- M6 ROOFZIPS 25mm
FACE FIXED 25mm FROM JOINT ONLY
- HEX HEAD SCREWS @250 CTRS
(MAXIMUM) THROUGH FIXED FROM BEHIND

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LWF-MW-FR029 REV02

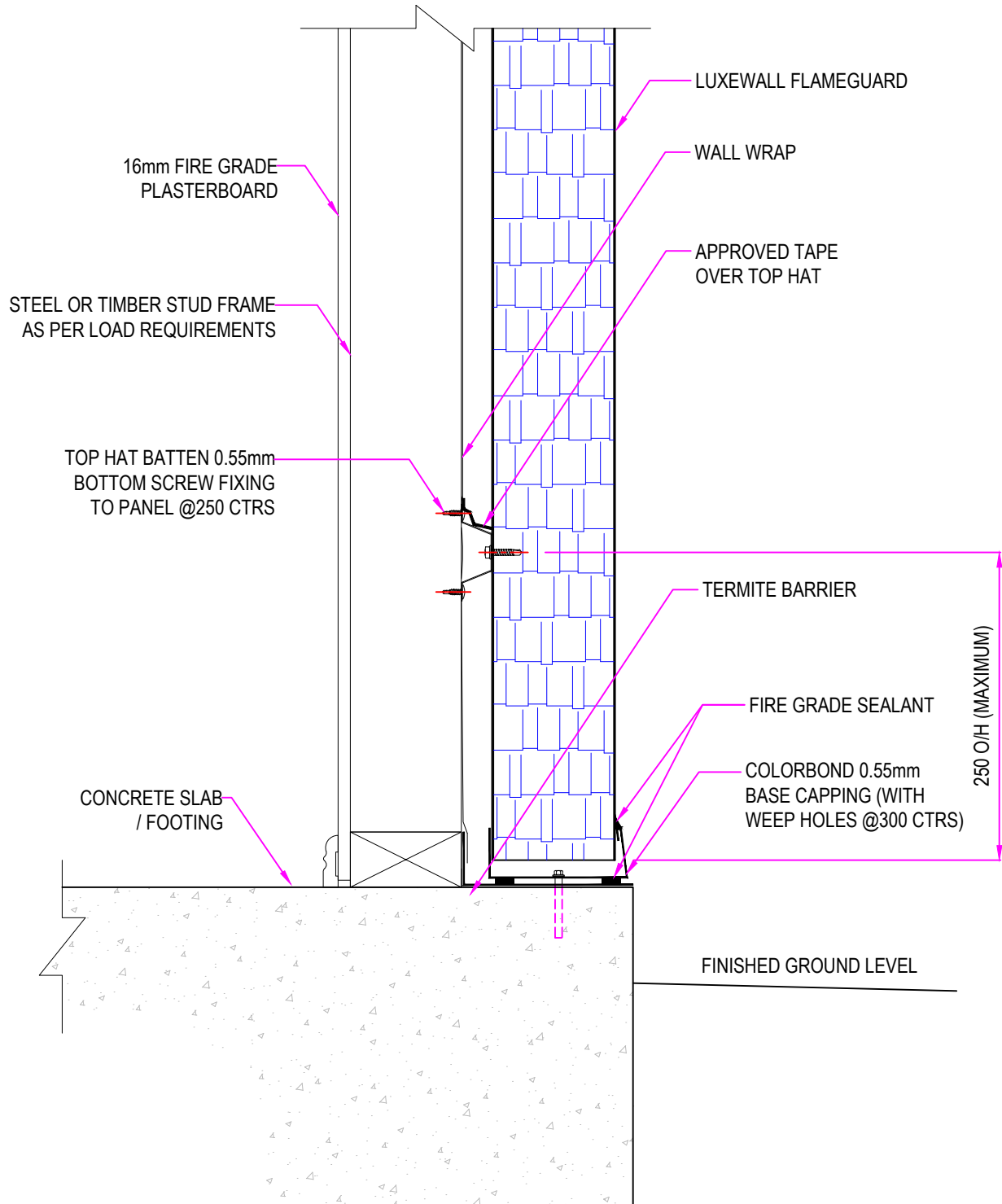


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Base Connection to Slab Non-Recessed - 50-150mm Panel 90/90/90

LWF-MW-FR006 REV00

FRL



SINGLE STOREY FOOTING DETAIL

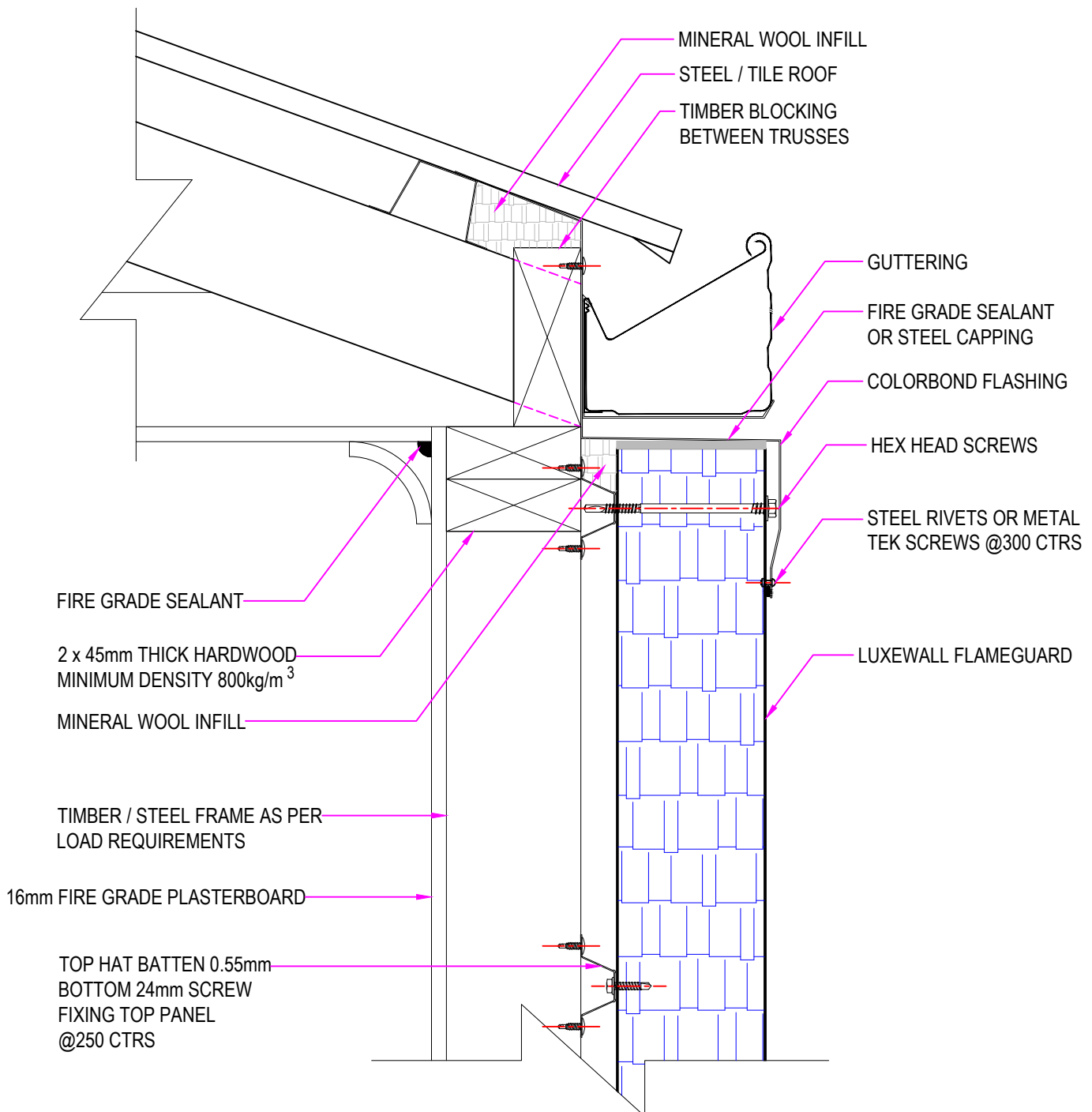
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External Wall with Gutter Traditional Framing LWF-MW-FR020 REV00

- 50-150mm Panel 90/90/90

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Panel Junction - 50-150mm Panel 90/90/90

LWF-MW-FR031 REV00

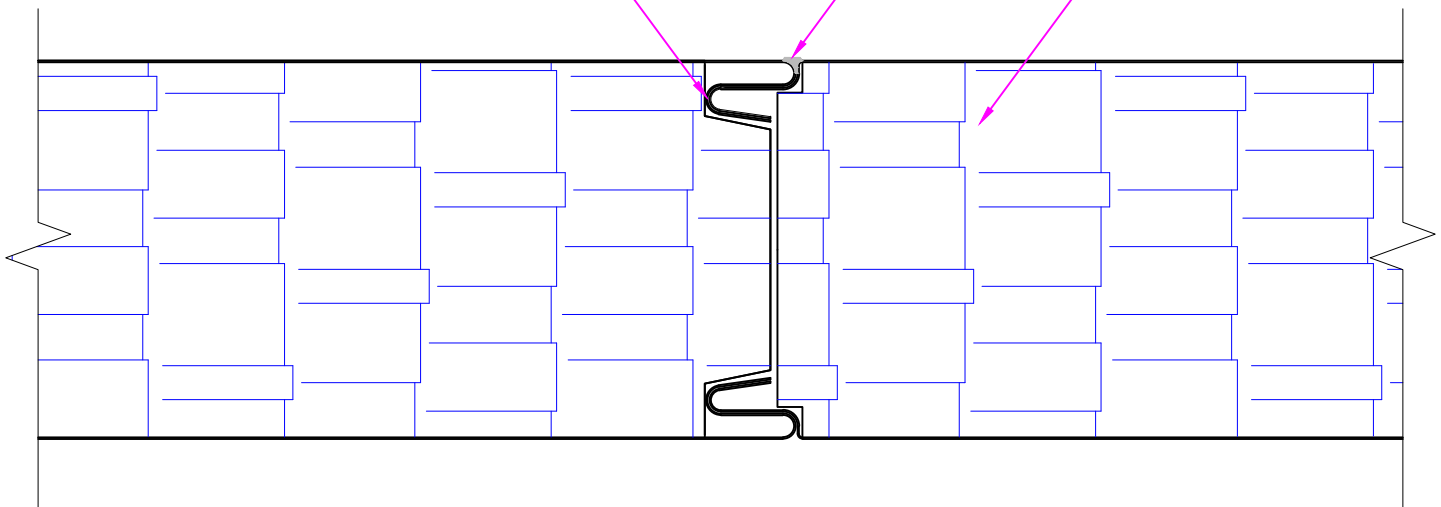
FRL

FIRE SIDE

FIRE GRADE SEALANT
OPTIONAL

SEALANT
OPTIONAL

LUXEWALL FLAMEGUARD



Note:

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Construction Overview Wall Wrap -

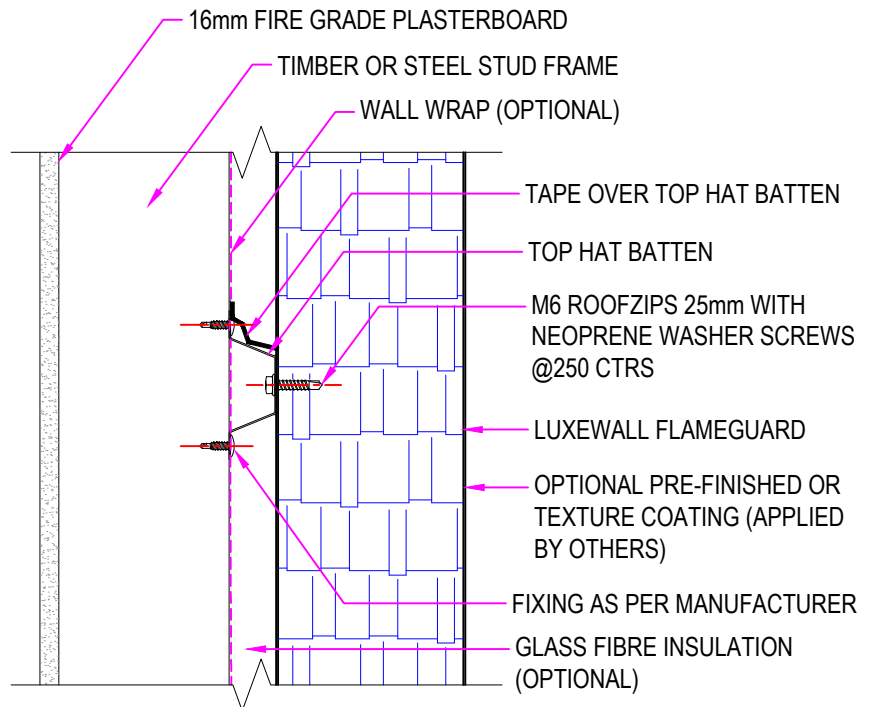
LWF-MW-FR014 REV00

50-150mm Panel 90/90/90

FRL

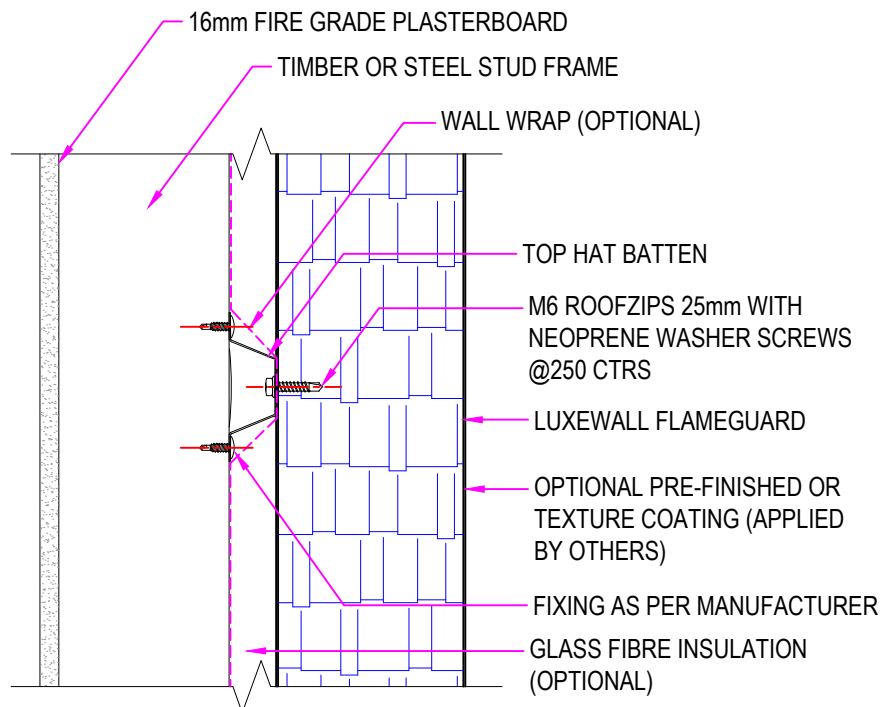
TOP HAT BATTENS OVER WALL WRAP

FIXINGS BETWEEN TOP HAT BATTENS AND LUXEWALL ARE TO BE M6 ROOFZIPS 25mm SCREWS @250 CENTRES. THESE ARE TO BE FASTENED INTO THE REVERSE SIDE OF THE LUXEWALL THROUGH THE BATTEN. THE FRAMING MANUFACTURER AND / OR ENGINEER IS RESPONSIBLE FOR THE SPECIFICATION OF FIXINGS BETWEEN TOP HAT BATTENS AND ANY FRAMING. APPLY WALL WRAP TAPE TO FACE OF BATTEN.



WALL WRAP OVER TOP HAT BATTEN

FIXINGS BETWEEN TOP HAT BATTENS AND LUXEWALL ARE TO BE M6 ROOFZIPS 25mm SCREWS @250 CENTRES. THESE ARE TO BE FASTENED INTO THE REVERSE SIDE OF THE LUXEWALL THROUGH THE BATTEN. THE FRAMING MANUFACTURER AND / OR ENGINEER IS RESPONSIBLE FOR THE SPECIFICATION OF FIXINGS BETWEEN TOP HAT BATTENS AND ANY FRAMING.



Note:

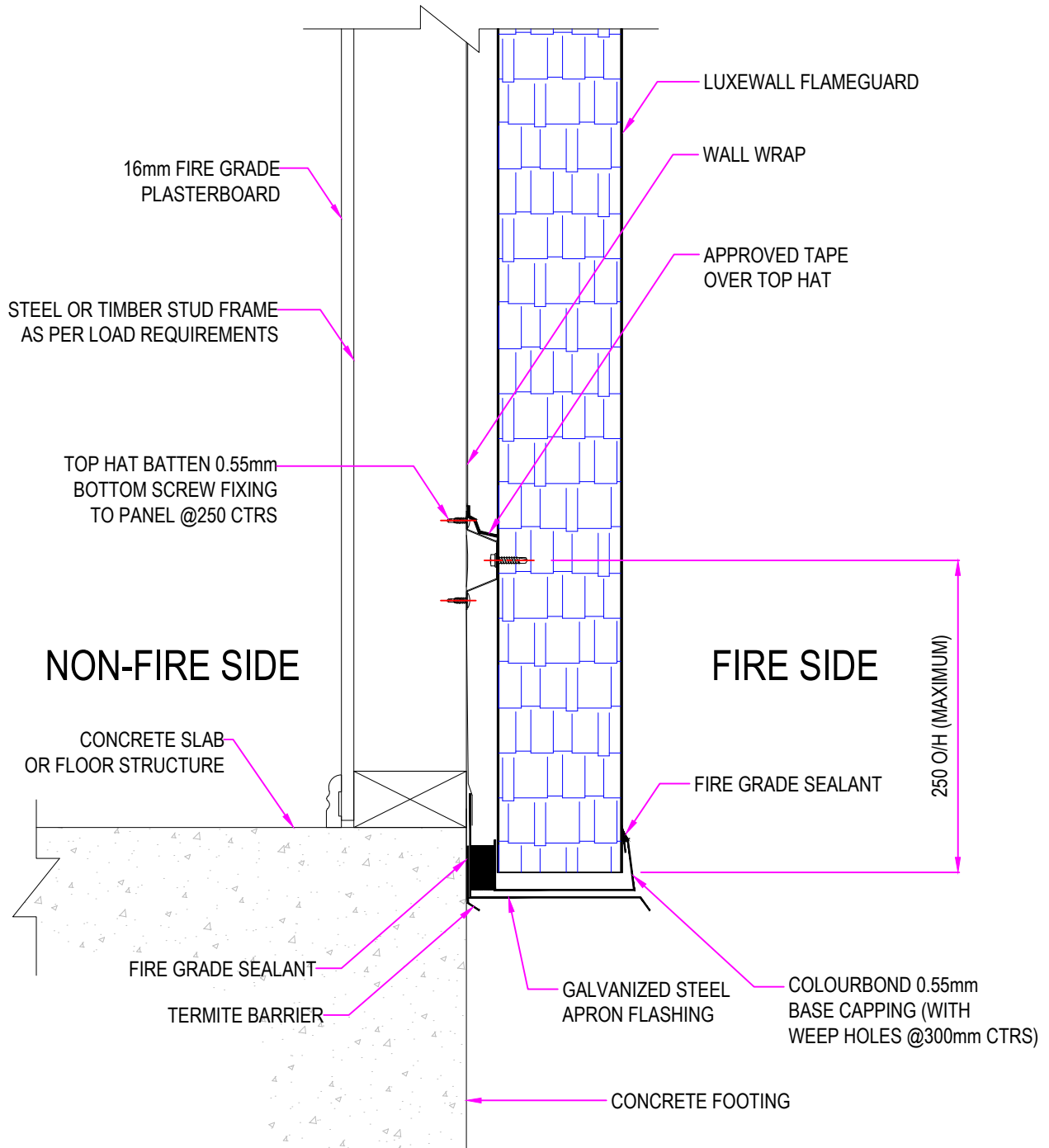
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Base Connection Suspended Panel -

LWF-MW-FR004 REV00

50-150mm Panel 90/90/90

FRL



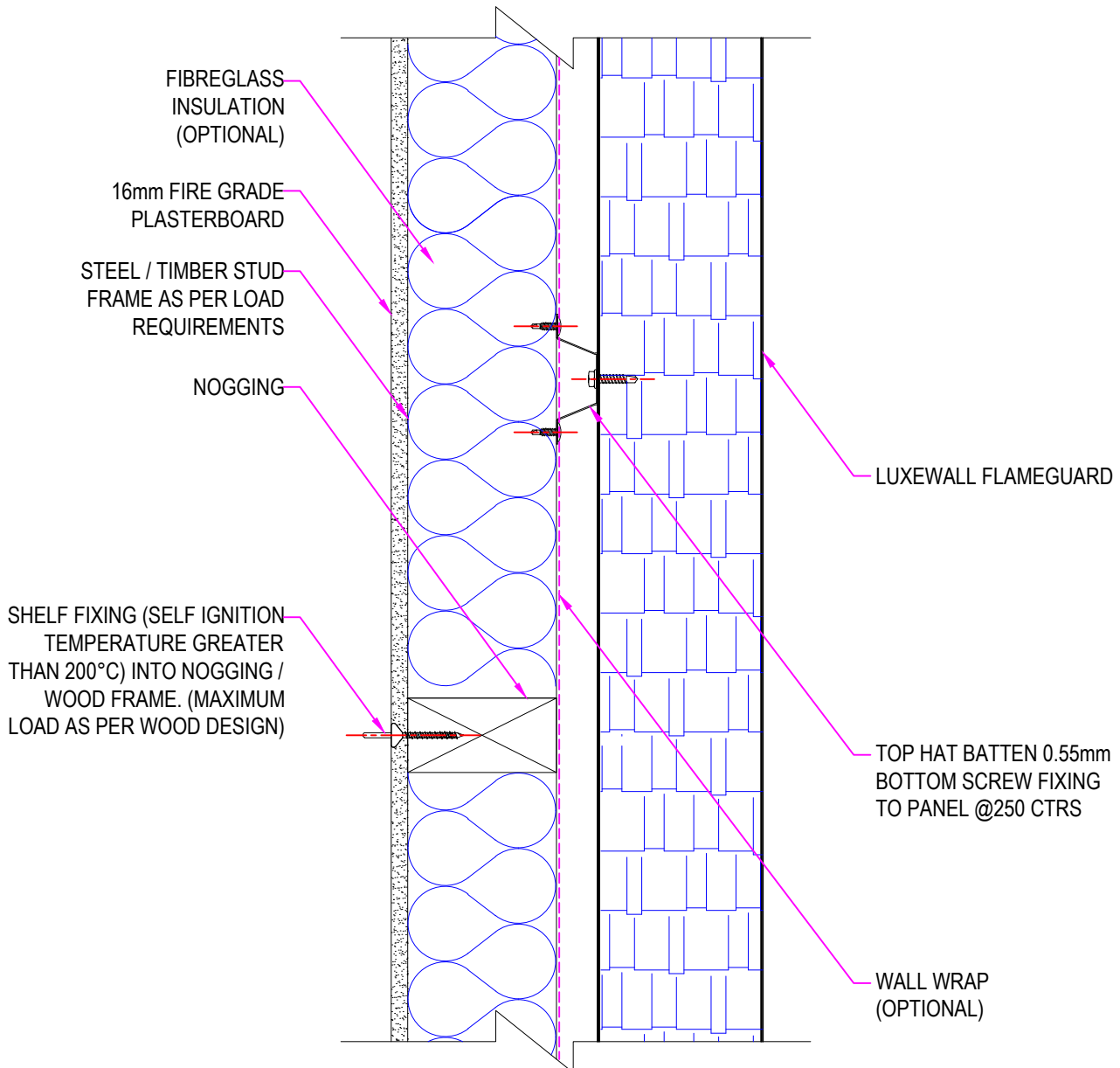
Note:

- Refer to notes on page 2 for structural adequacy of the wall system.
- We recommend that you should engage your local Bondor® architectural specialist at design stage to ensure the panel system is designed to suit specific project requirements.
- All exposed core material is to be encapsulated with a non-combustible covering in order to achieve BAL ratings of up to BAL-40
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Shelf Attachment - 50-150mm Panel 90/90/90

LWF-MW-FR046 REV00

FRL



Note:

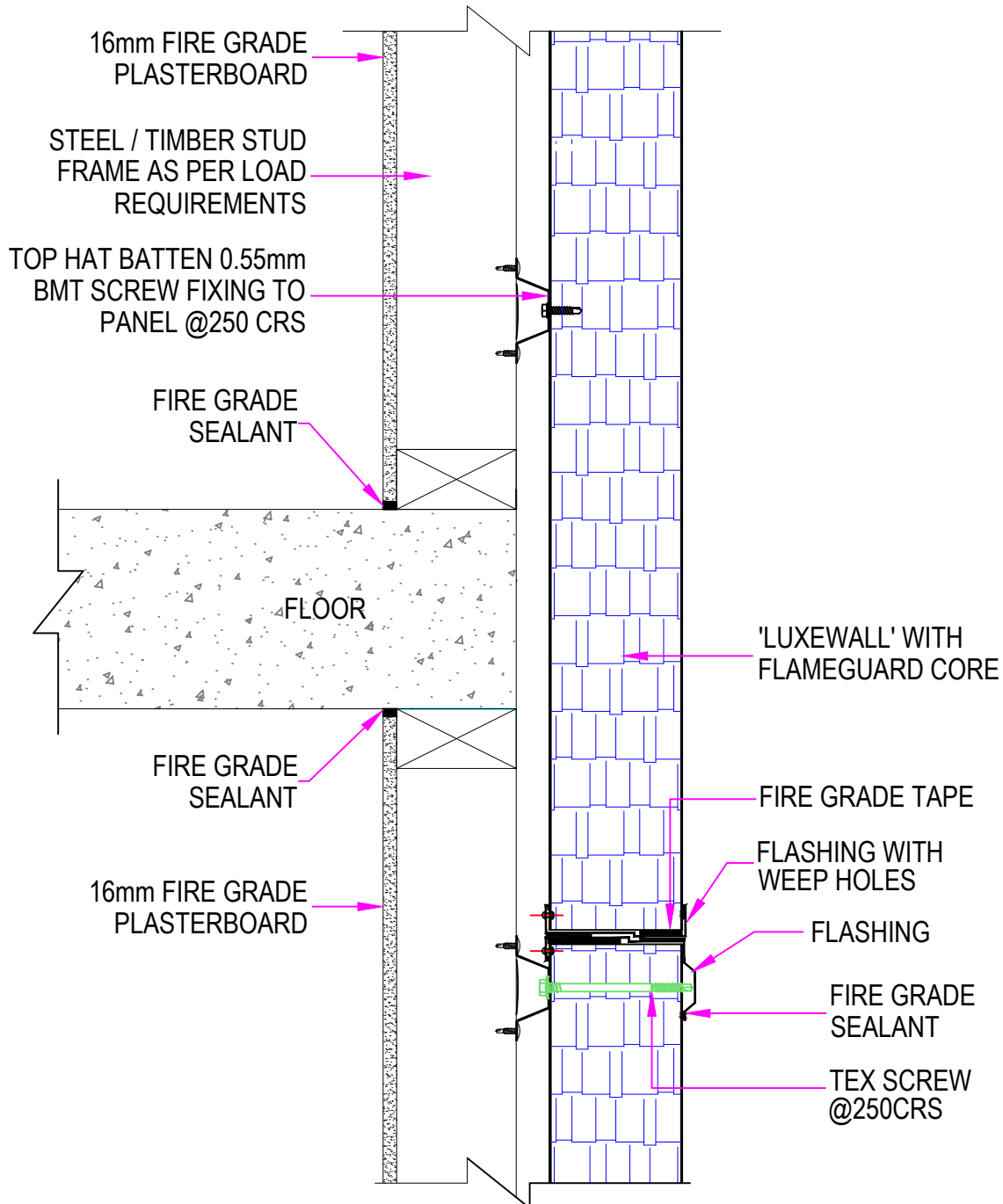
- Refer to notes on page 2 for structural adequacy of the wall system.
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Butt Joint No External Access -

LWF-MW-FR048 REV01

50-150mm Panel 90/90/90

FRL



Note:

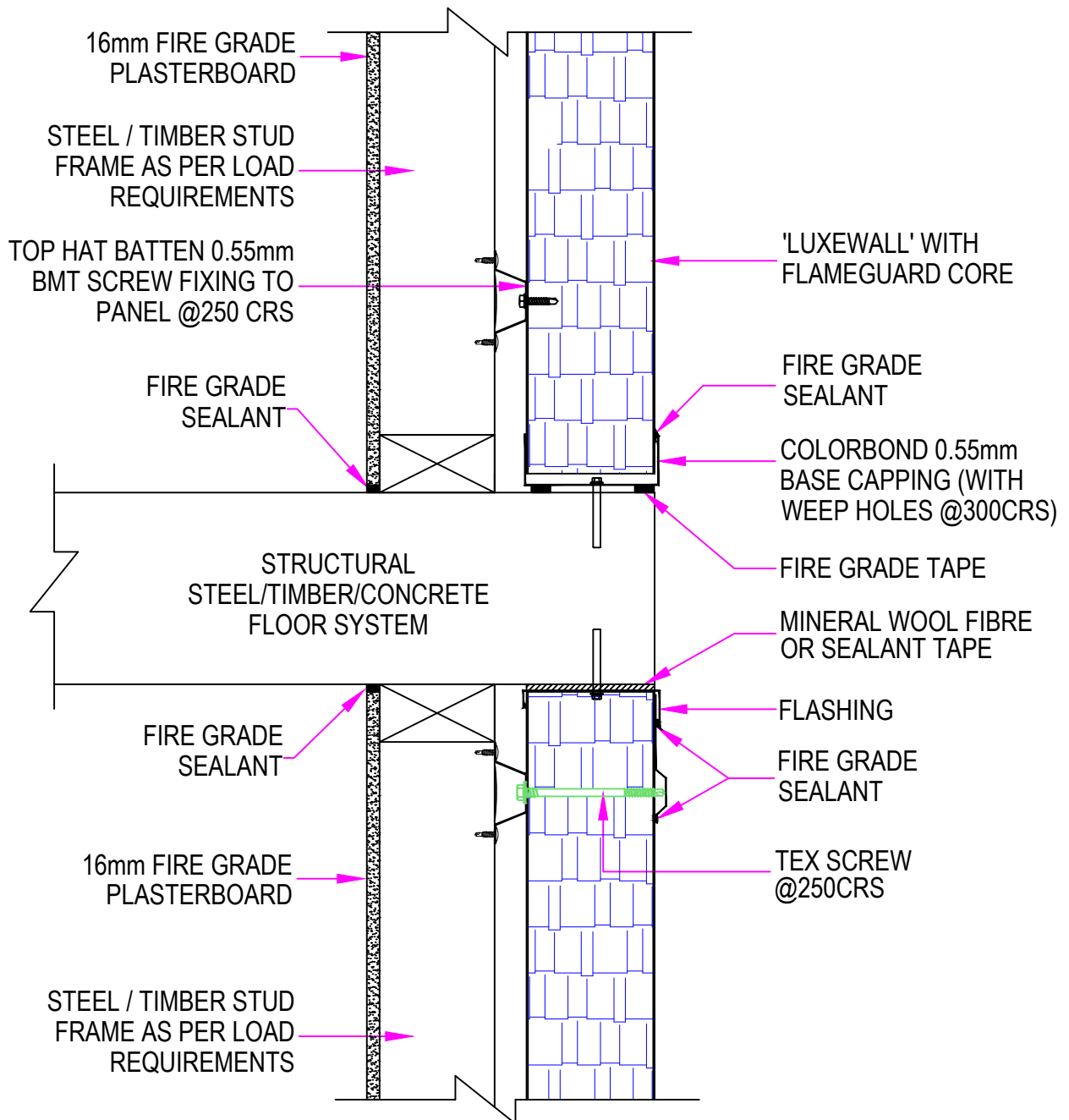
- Refer to notes on page 2 for structural adequacy of the wall system.
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Inter-Floor Finishing - 50-150mm Panel

LWF-MW-FR050 REV01

90/90/90

FRL



Note:

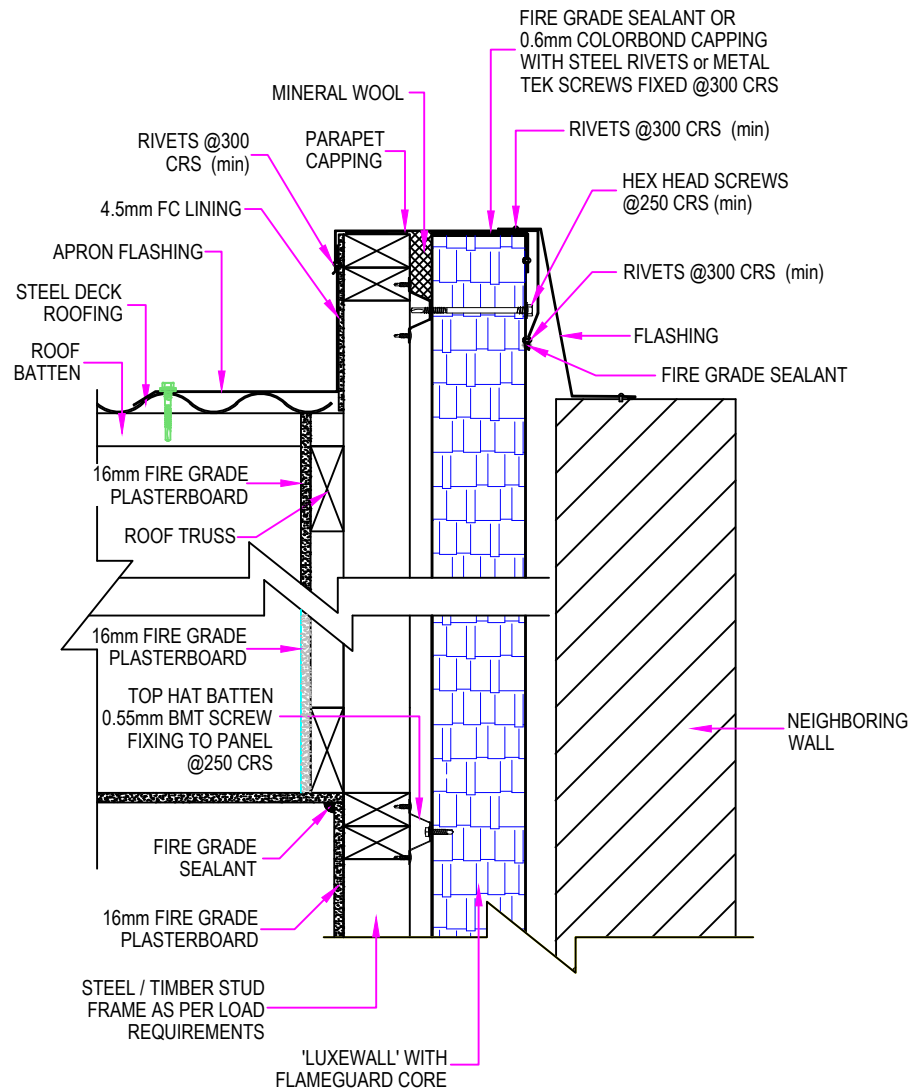
- Refer to notes on page 2 for structural adequacy of the wall system.
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Parapet Option 1 No External Access -

LWF-MW-FR052 REV01

50-150mm Panel 90/90/90

FRL



Note:

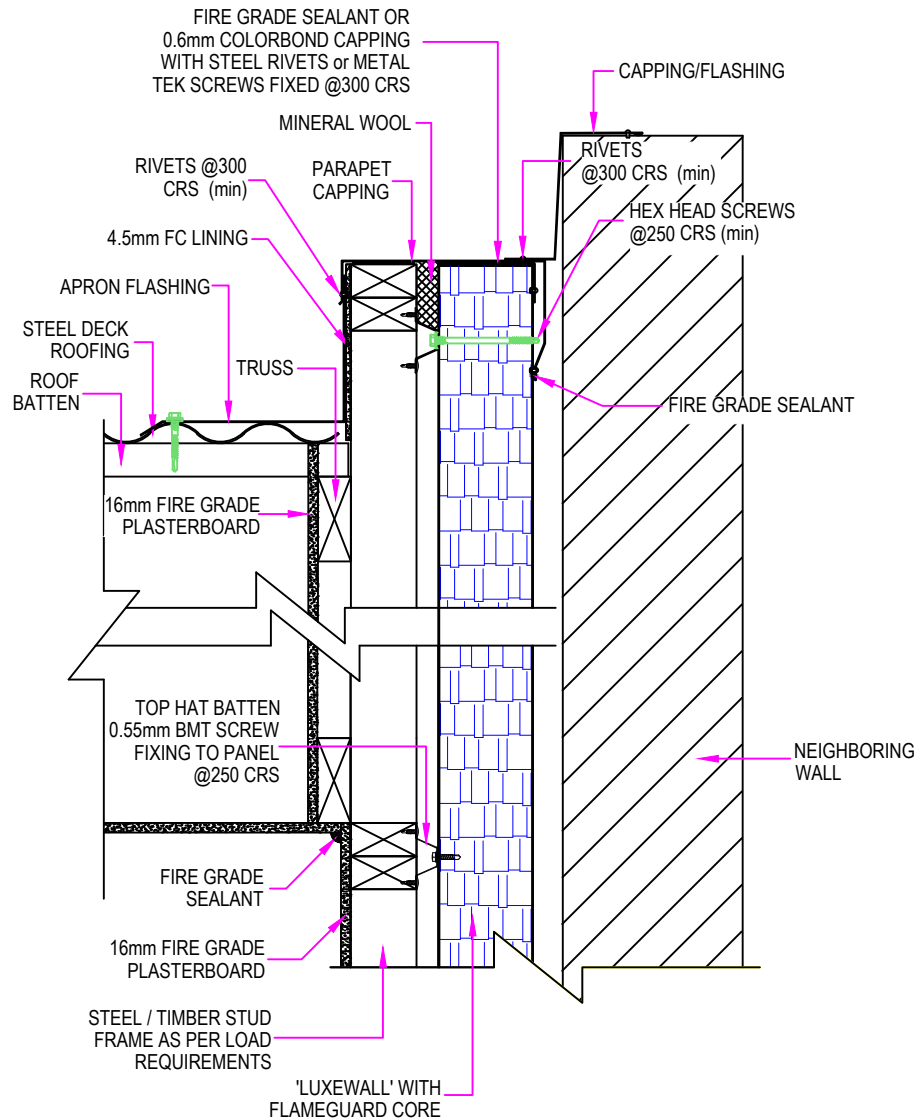
- Refer to notes on page 2 for structural adequacy of the wall system.
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Parapet Option 2 No External Access -

LWF-MW-FR054 REV01

50-150mm Panel 90/90/90

FRL



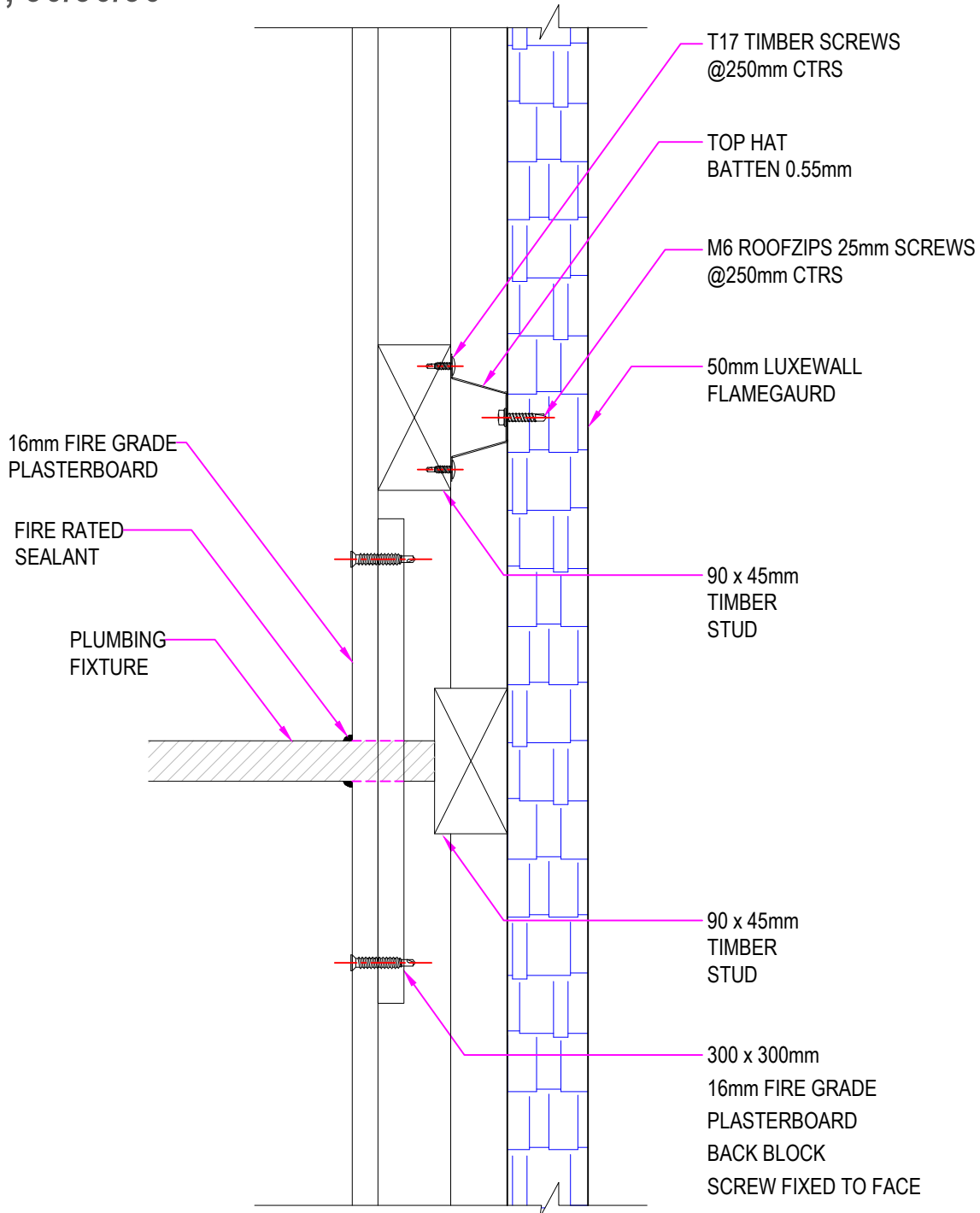
Note:

- Refer to notes on page 2 for structural adequacy of the wall system.
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Penetrations Plumbing Fixture 50mm Panel LWF-MW-CL001 REV00

60/60/60, 90/90/90

Cladding



PLUMBING FIXTURE ELEVATION

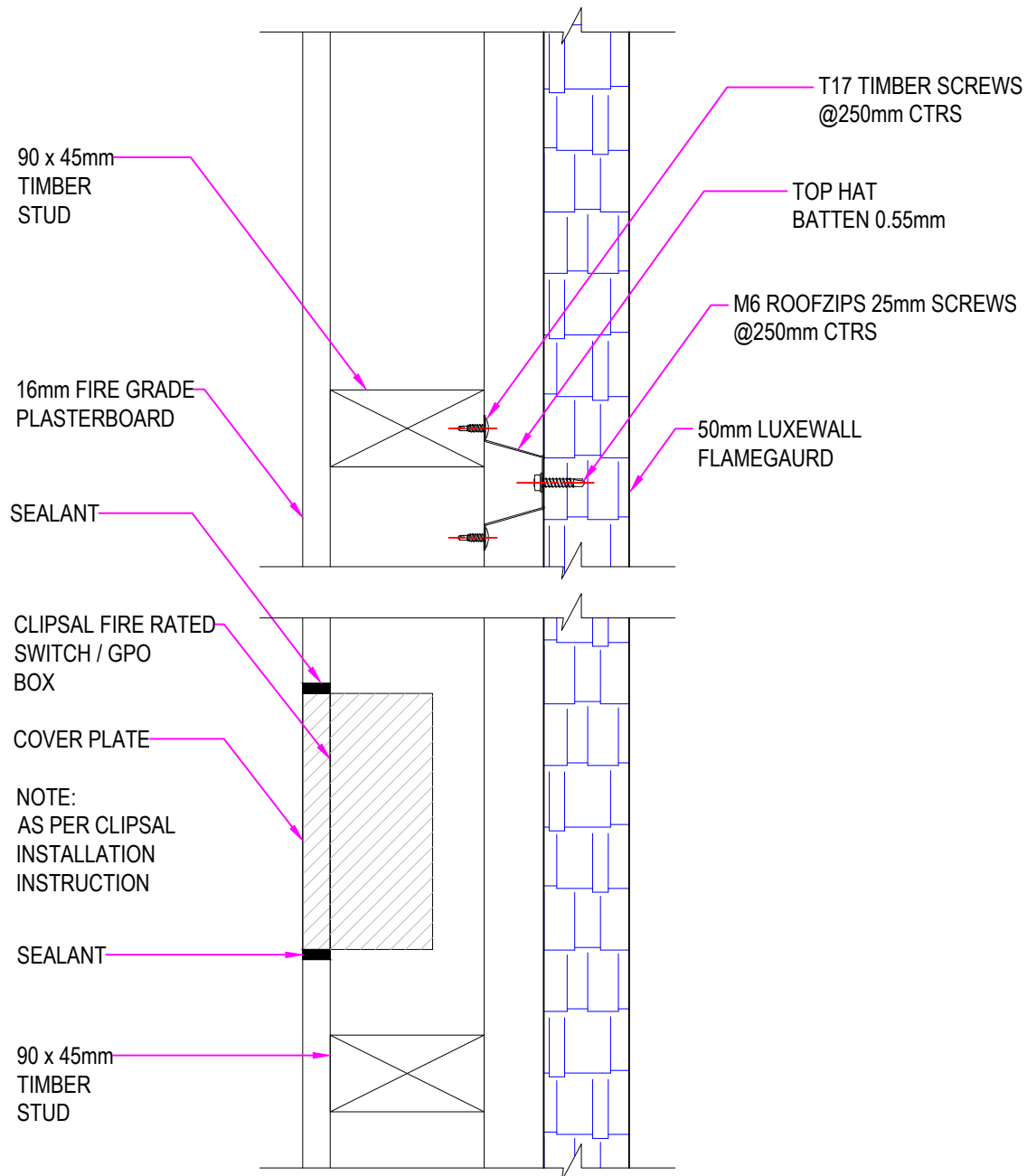
Note:

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Penetrations Switch Box / GPO 50mm Panel LWF-MW-CL002 REV00

60/60/60, 90/90/90

Cladding



SWITCH BOX / GPO ELEVATION

Note:

- Refer to notes on page 2 for structural adequacy of the wall system.
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