



luxewall[®]

flameguard[®]

Fire Rated Wall System 60/60/60

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*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 the 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.

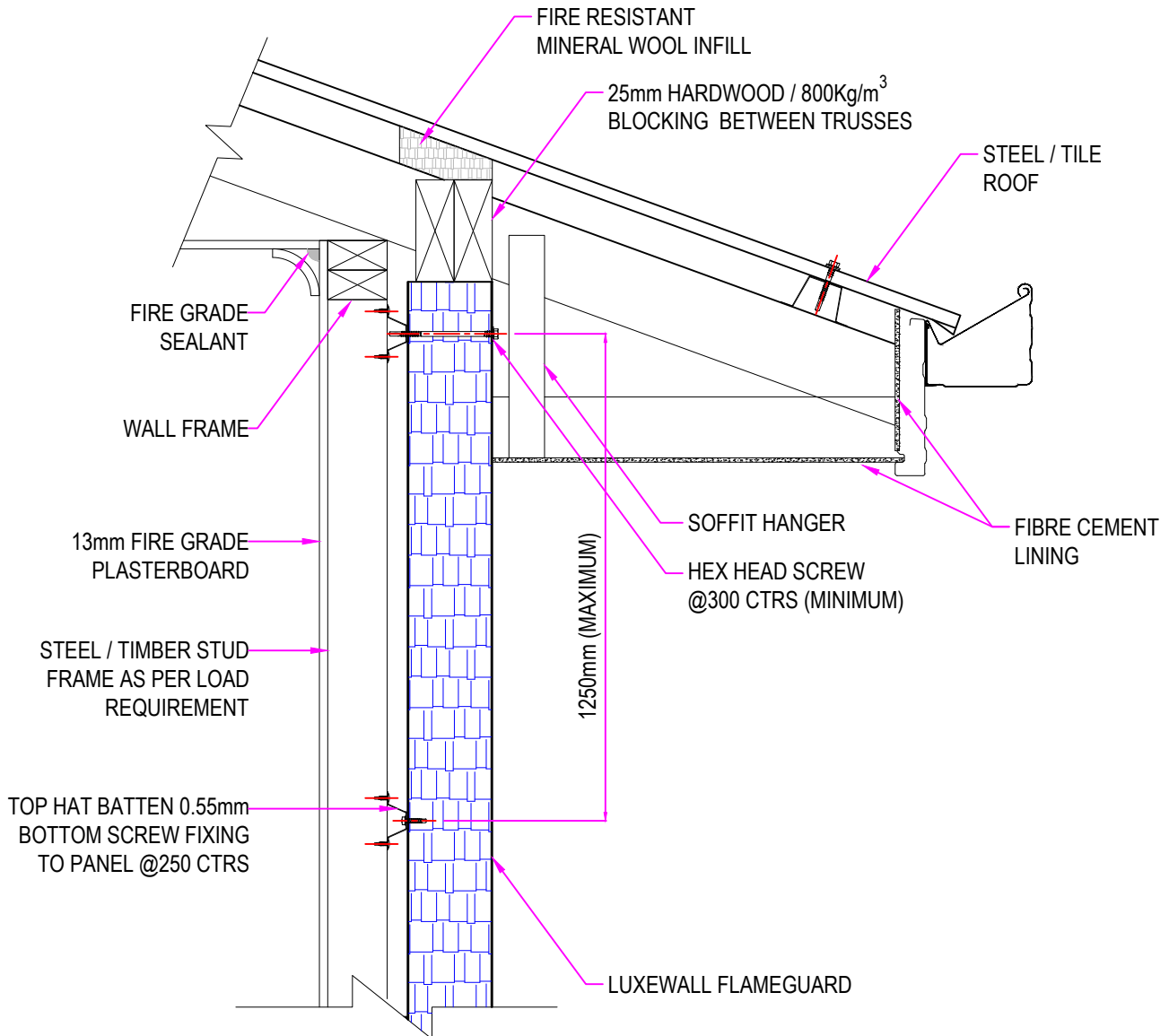
Table 2 Steel stud temperature (°C)

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

Roof Eave Traditional Roof - Standard - 50-150mm Panel 60/60/60

LWF-MW-FR043 REV01

FRL



Note:

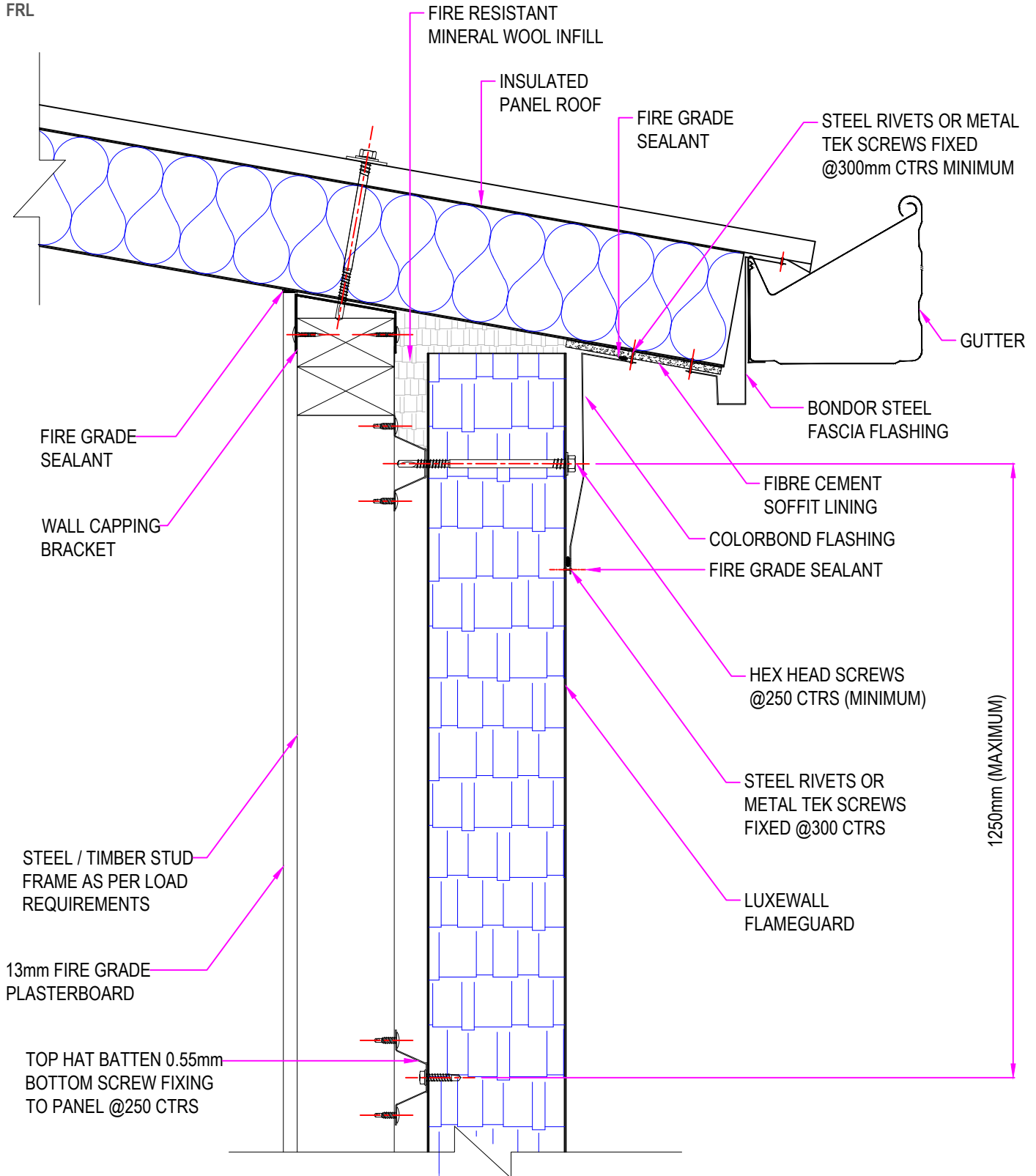
- Refer to notes on page 2 for structural adequacy of the wall system.
- We recommend that you should engage your local Bondor® architectural specialist at design stage to ensure the panel system is designed to suit specific project requirements.
- All exposed core material is to be encapsulated with a non-combustible covering in order to achieve BAL ratings of up to BAL-40
- Panel by Bondor®, screw may be by Bondor®, all other items by others.
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Roof Eave Insulated Roof - Standard -

LWF-MW-FR041 REV01

50-150mm Panel 60/60/60

FRL



Note:

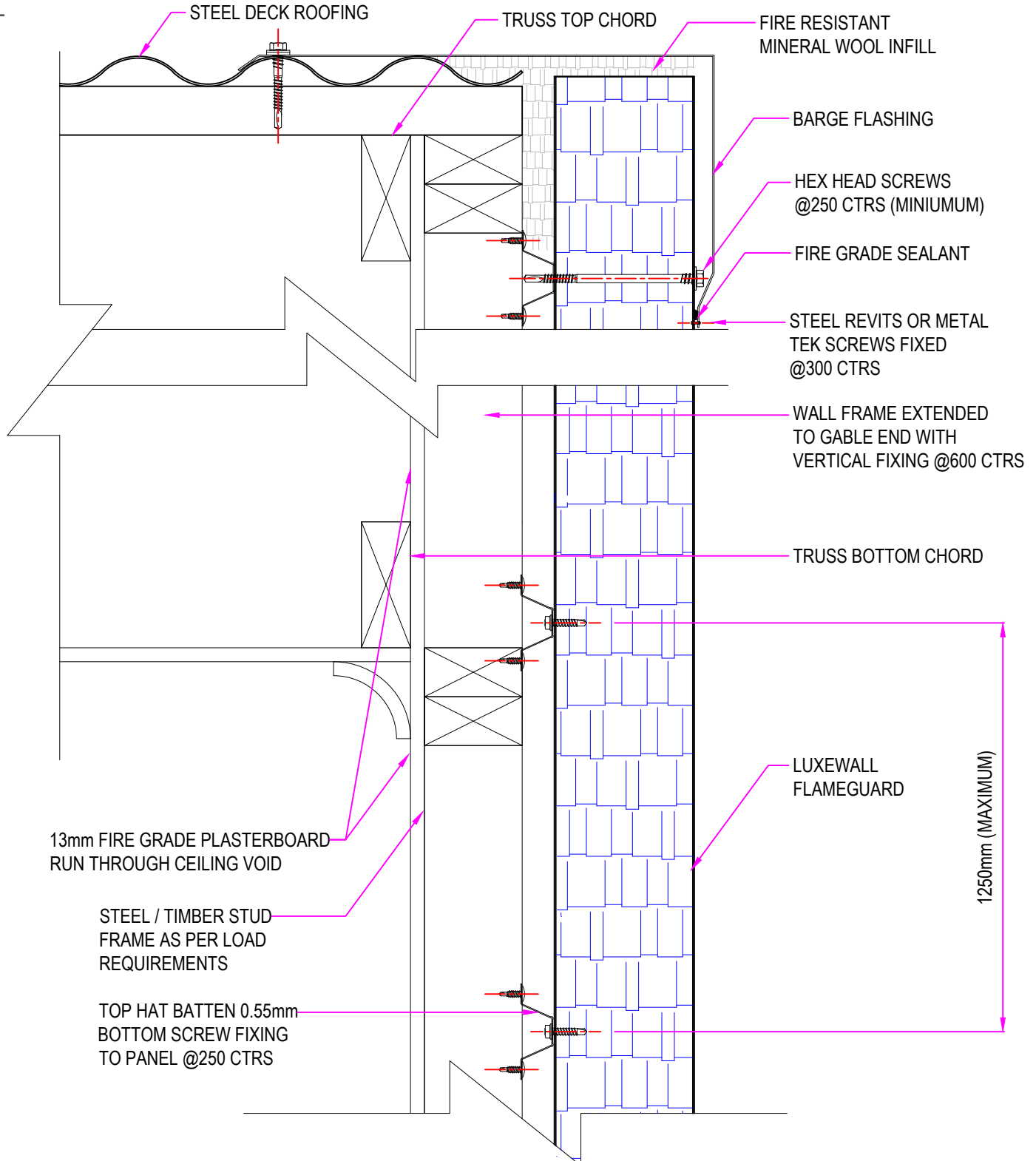
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Gable End Construction Traditional Roof

LWF-MW-FR023 REV01

- 50-150mm Panel 60/60/60

FRL



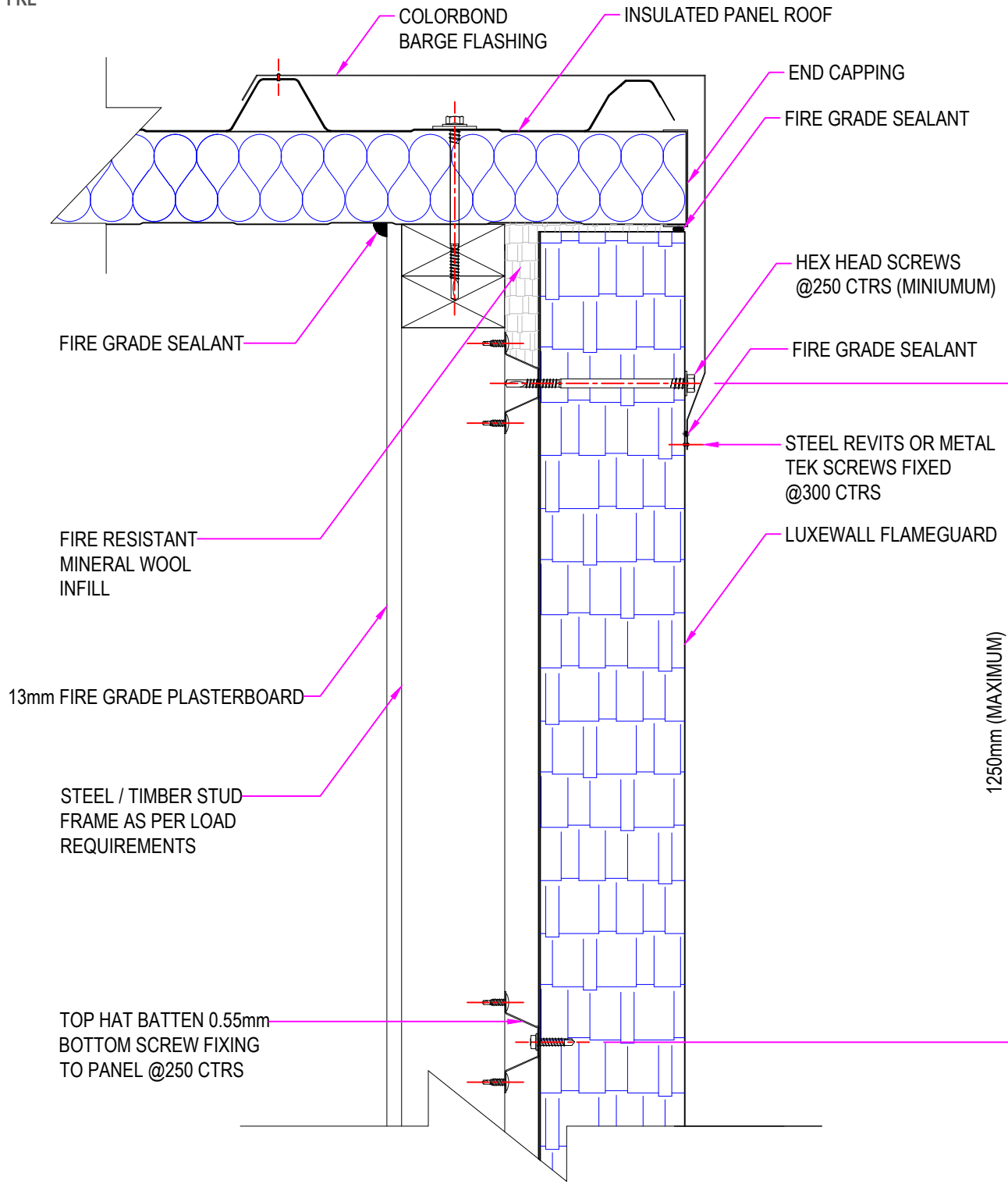
WALL TO ROOF CONSTRUCTION - PARALLEL TO ROOF TRUSS - TRADITION ROOF

Note:

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Gable End Construction Insulated Panel Roof LWF-MW-FR021 REV01 - 50-150mm Panel 60/60/60

FRL



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

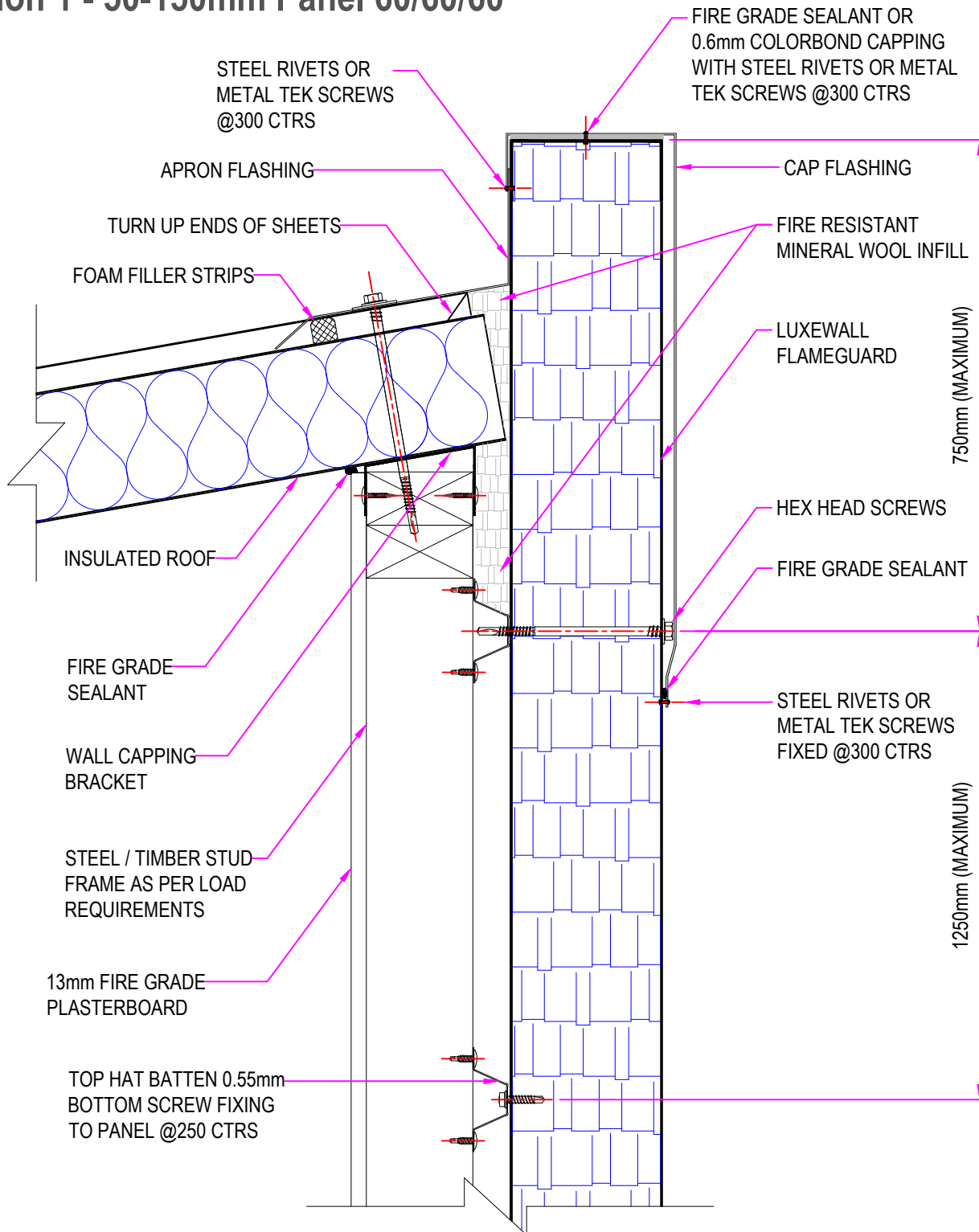
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Parapet Above Roof Line Insulated Panel Roof LWF-MW-FR033 REV01

Option 1 - 50-150mm Panel 60/60/60

FRL



PARAPET ABOVE ROOF LINE - INSULATED ROOF

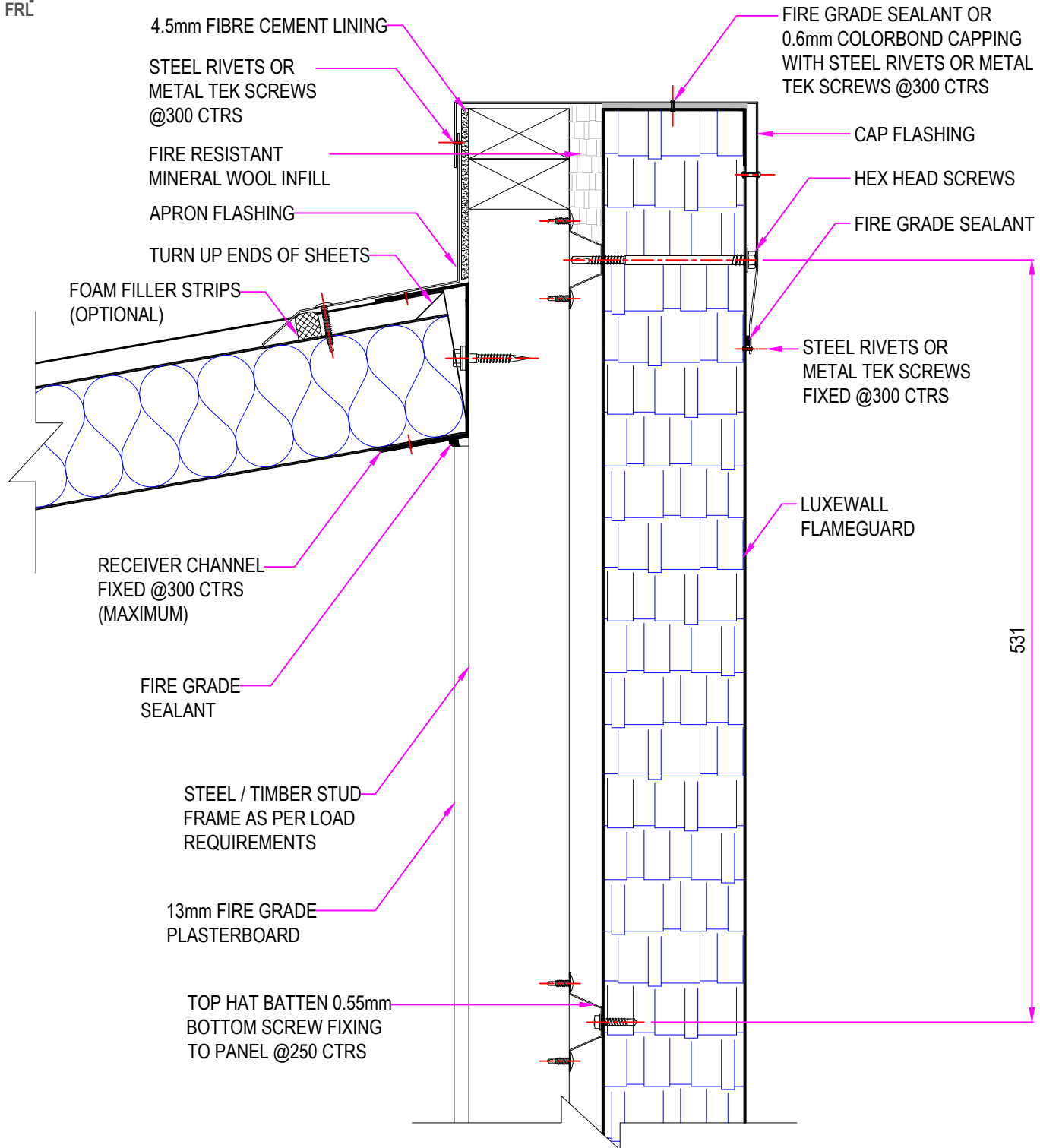
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Parapet Above Roof Line Insulated Panel Roof LWF-MW-FR035 REV01

Option 2 - 50-150mm Panel 60/60/60

FRL



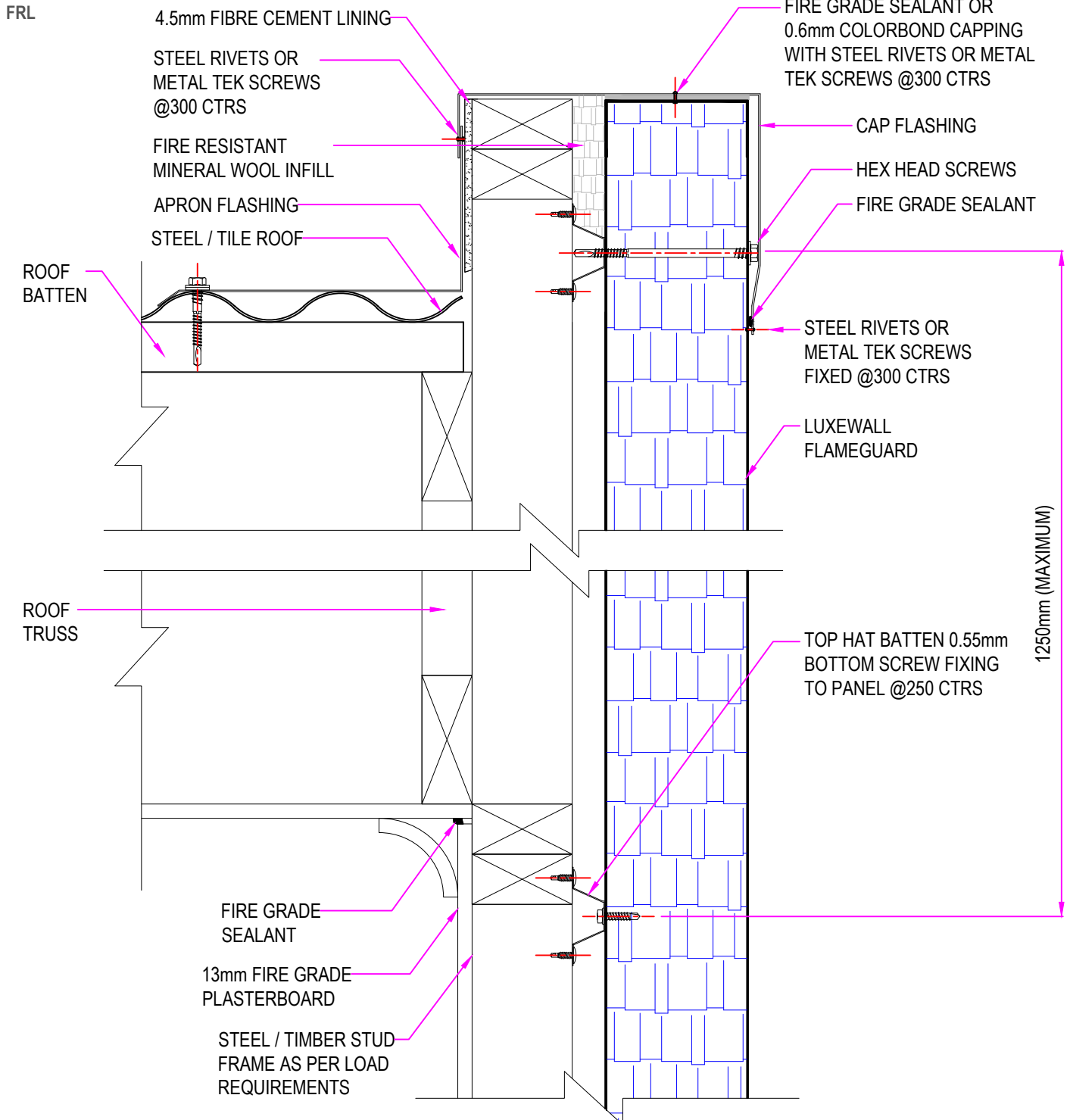
PARAPET ABOVE ROOF LINE - INSULATED ROOF

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Parapet Above Roof Line Traditional Trussed LWF-MW-FR037 REV01

Roof - 50-150mm Panel 60/60/60



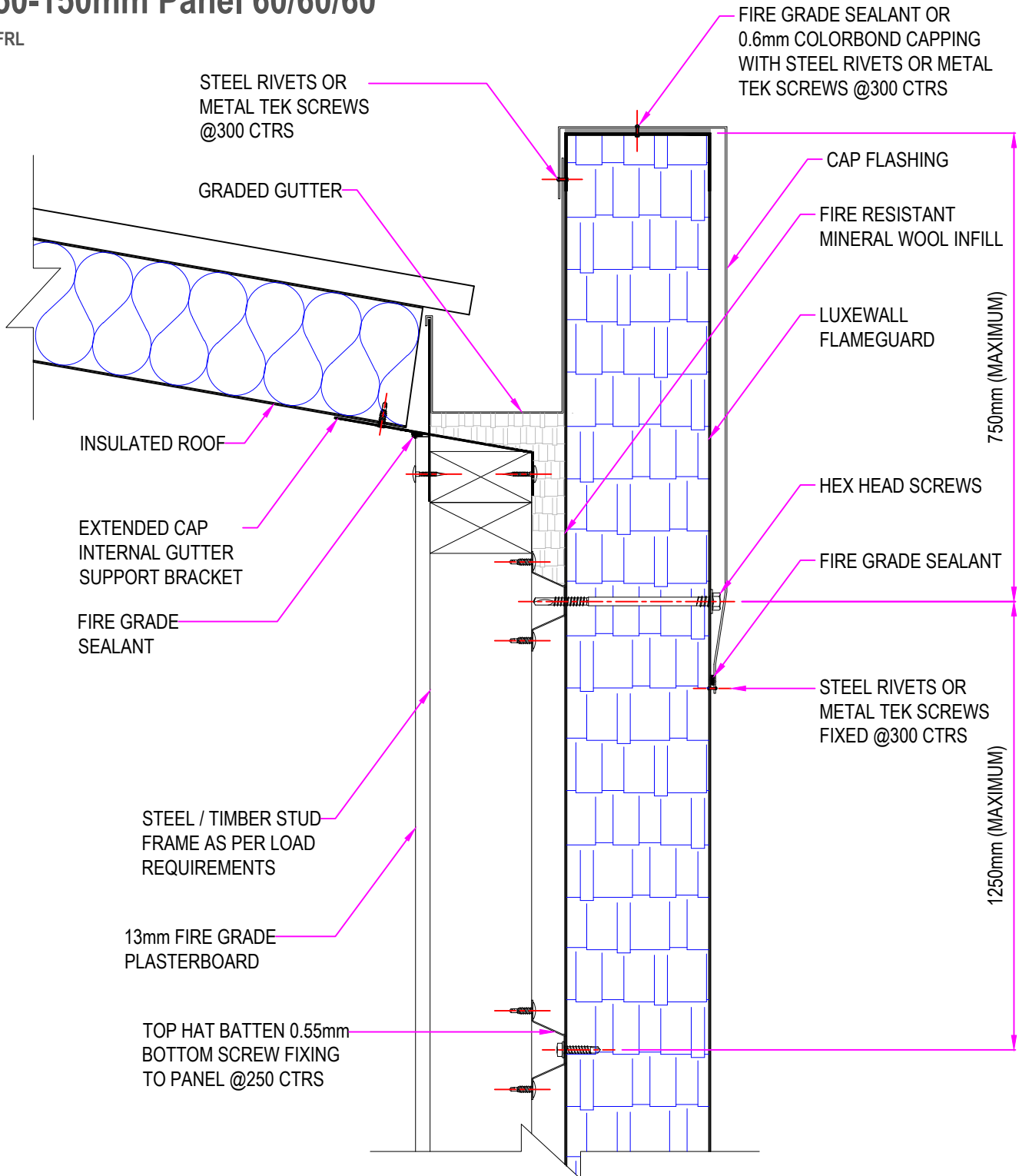
PARAPET ABOVE ROOF LINE - TRADITIONAL TRUSSED ROOF

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-FR009 REV01 50-150mm Panel 60/60/60

FRL



PARAPET WITH INTERNAL GUTTERING

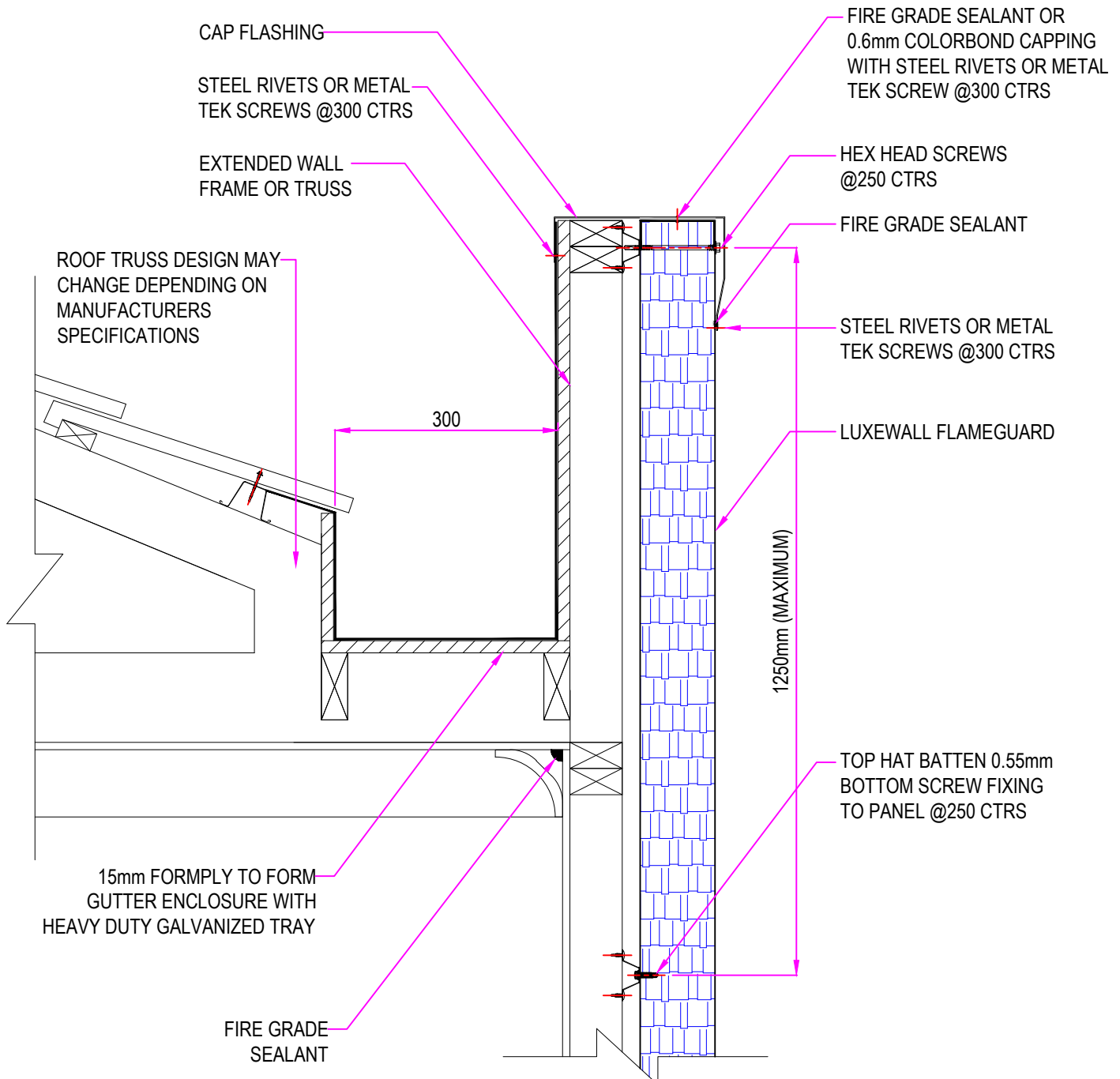
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Boxed Gutter-Parapet Traditional Roof - 50-150mm Panel 60/60/60

LWF-MW-FR011 REV01

FRL

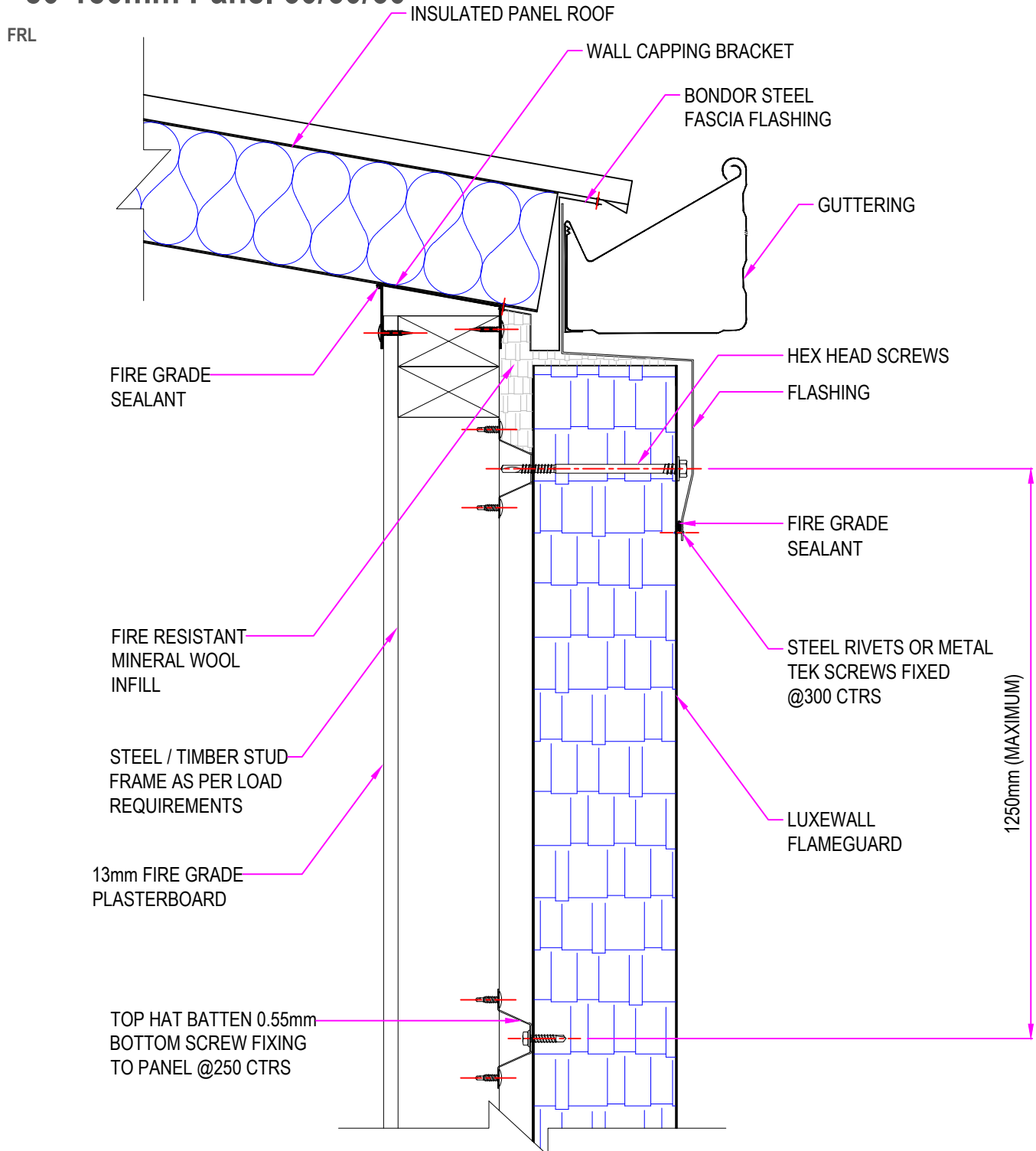


PARAPET WITH TRADITIONAL TRUSSED ROOF / GUTTER SYSTEM

Note:

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External Wall with Gutter Insulated Panel Roof LWF-MW-FR017 REV01 - 50-150mm Panel 60/60/60



EXTERIOR WALL WITH GUTTER DIRECTLY ON WALL - INSULATED ROOF

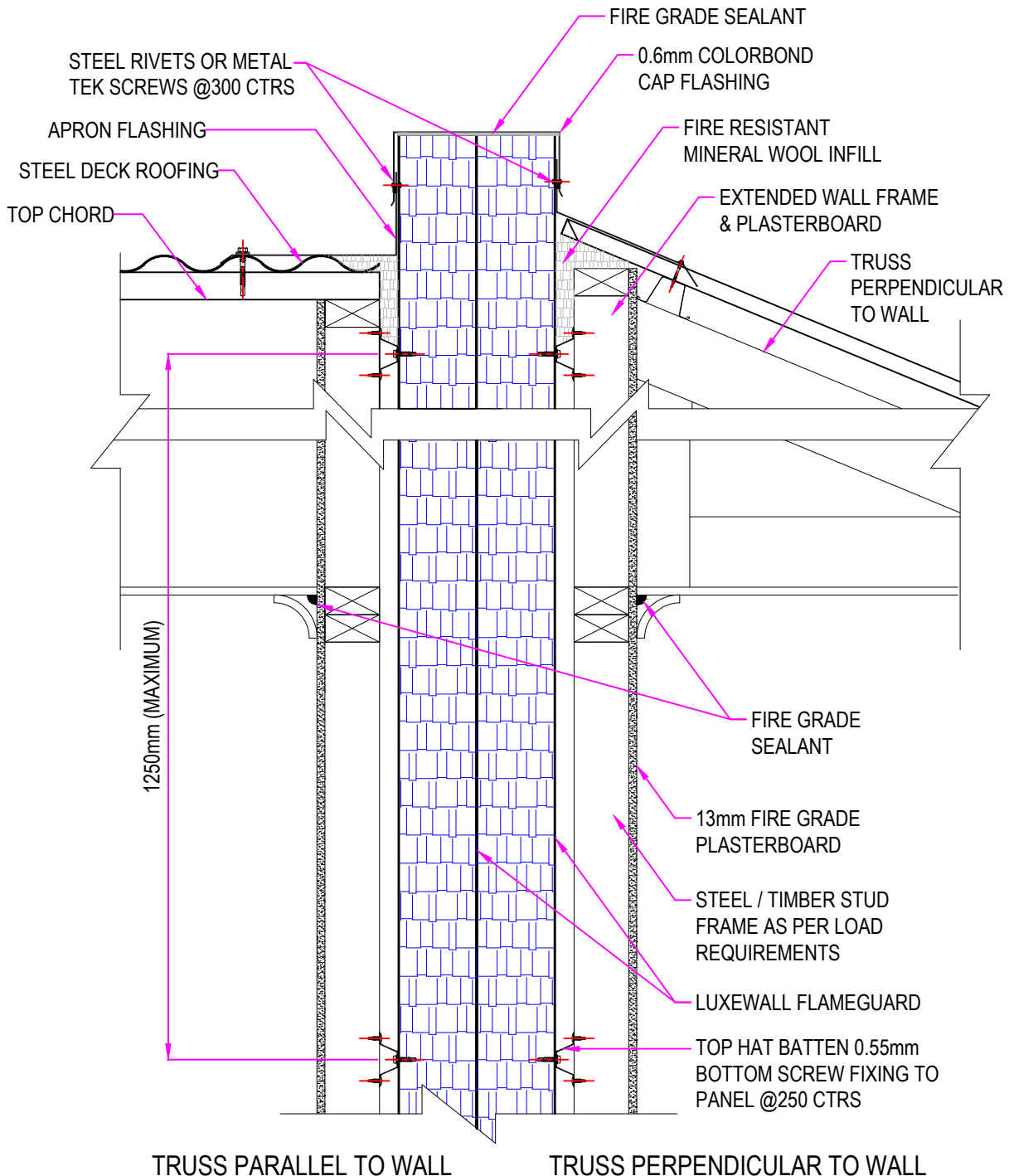
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Party-Wall System Traditional Framing

LWF-MW-FR039 REV01

- 50-150mm Panel 60/60/60
FRL



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

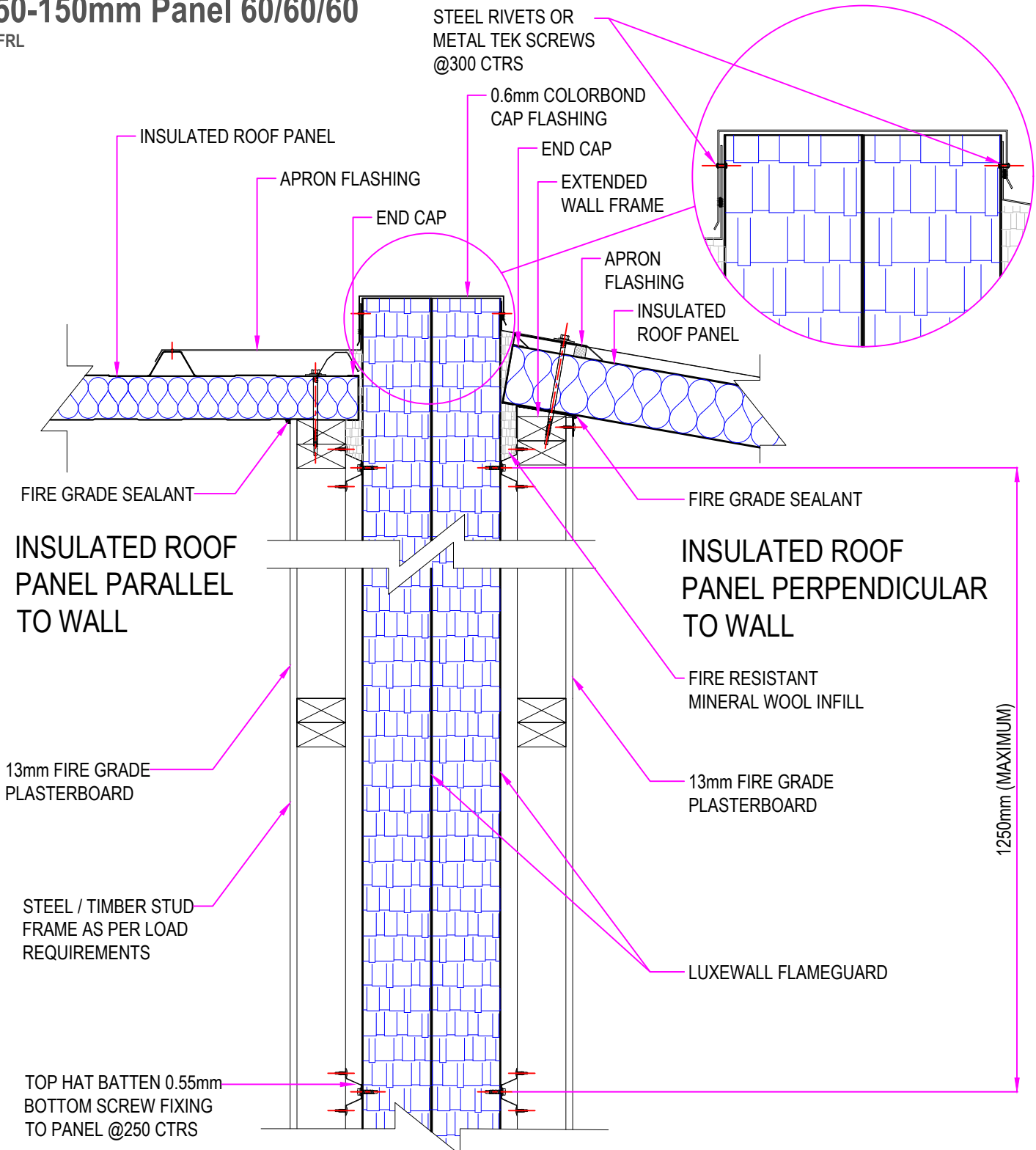
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Boundary Wall System Insulated Panel Roof - LWF-MW-FR007 REV01

50-150mm Panel 60/60/60

FRL



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

Note:

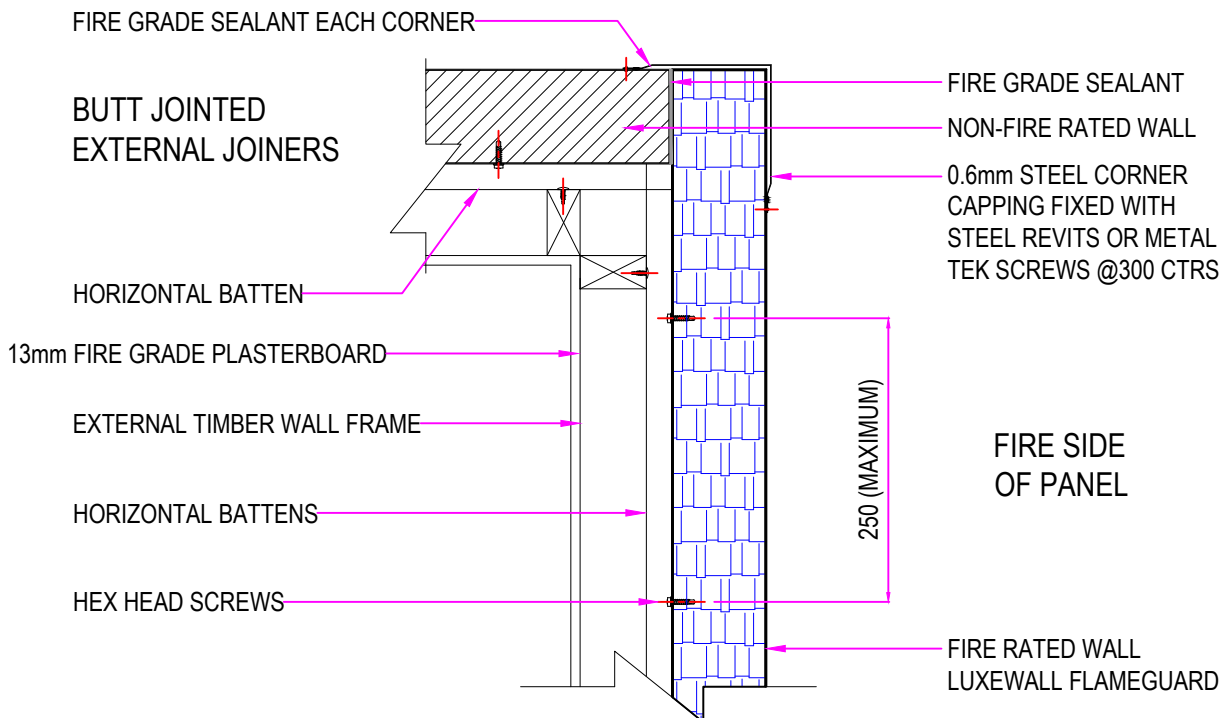
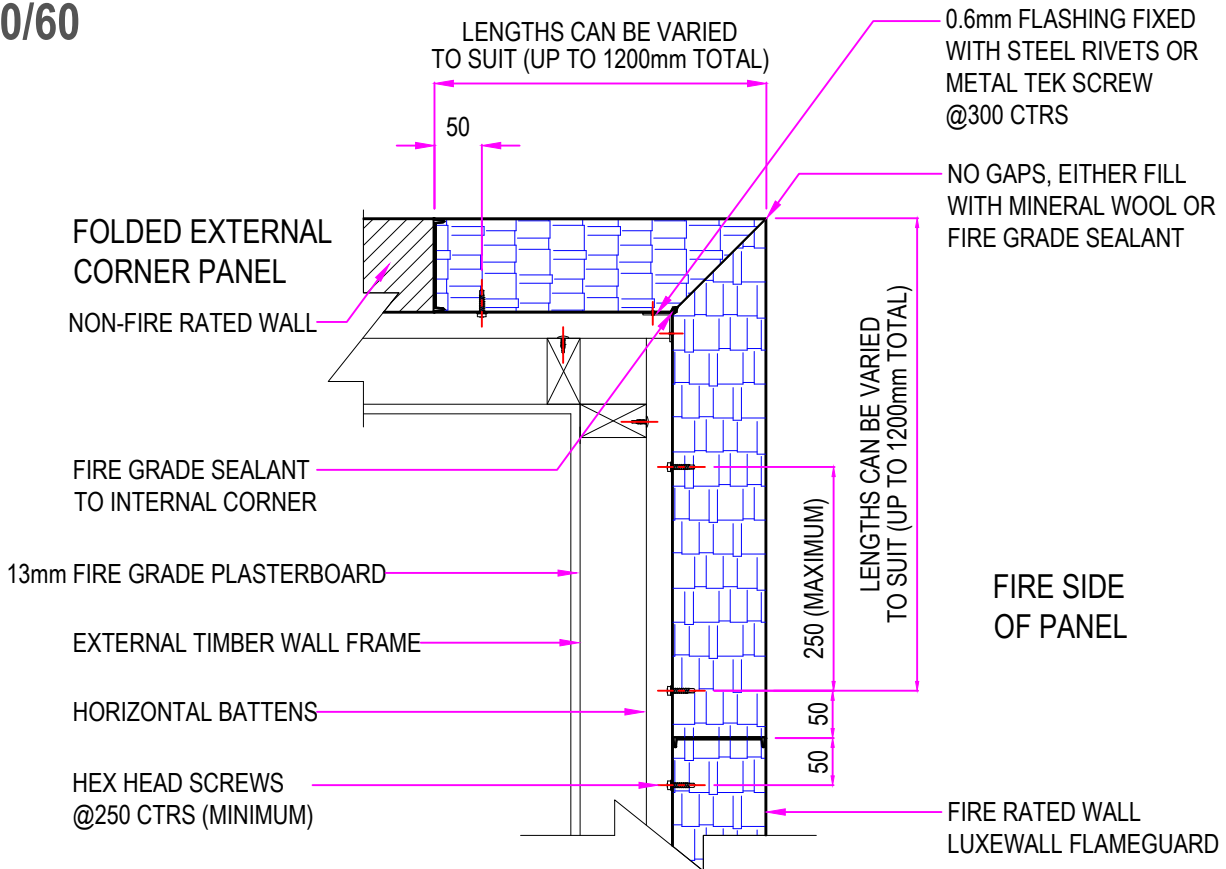
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External Corner Detail - 50-150mm Panel

LWF-MW-FR015 REV01

60/60/60

FRL



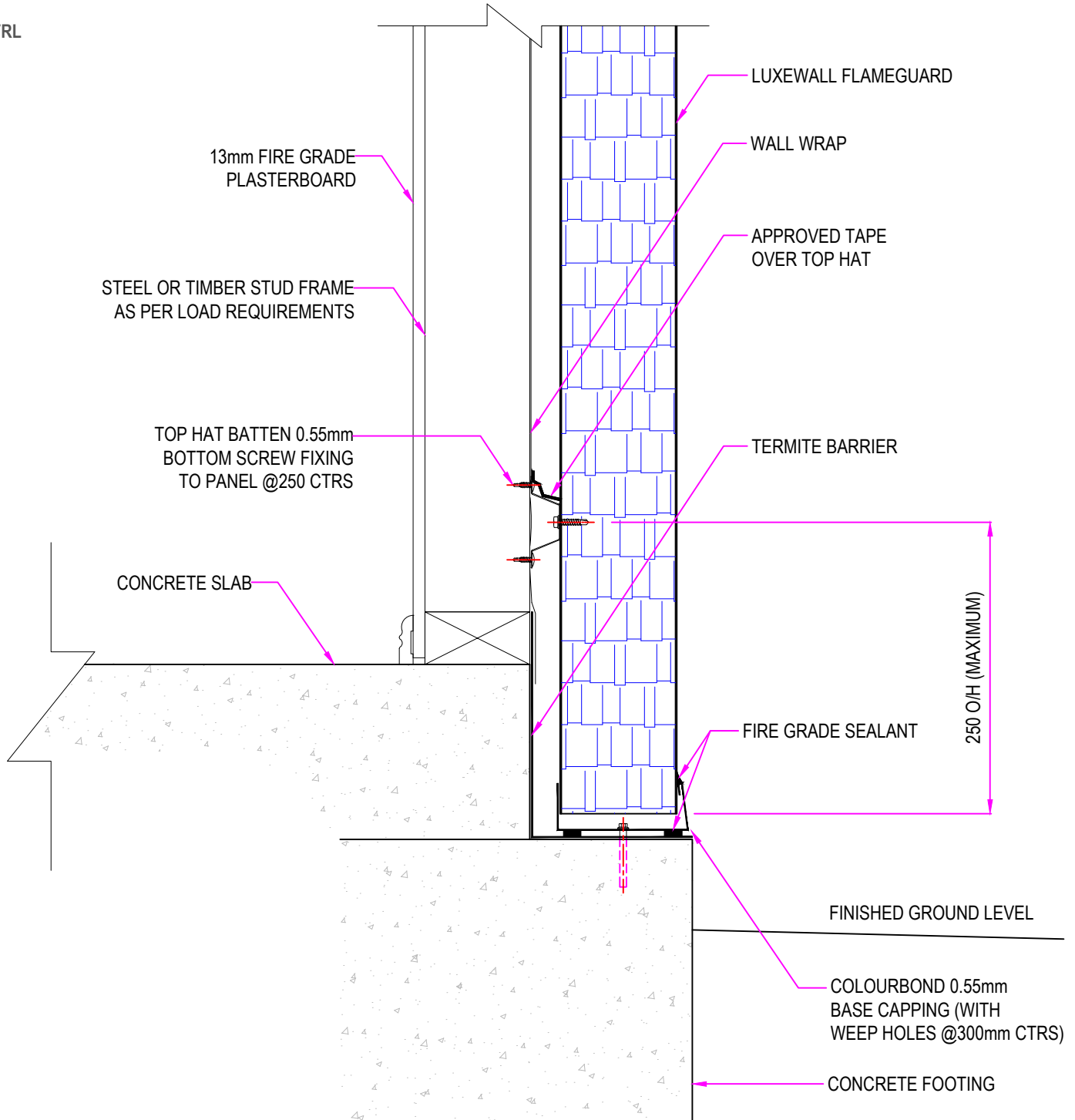
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Base Connection Detail to Slab - 50-150mm Panel 60/60/60

LWF-MW-FR001REV01

FRL



SINGLE STOREY FOOTING DETAIL

Note:

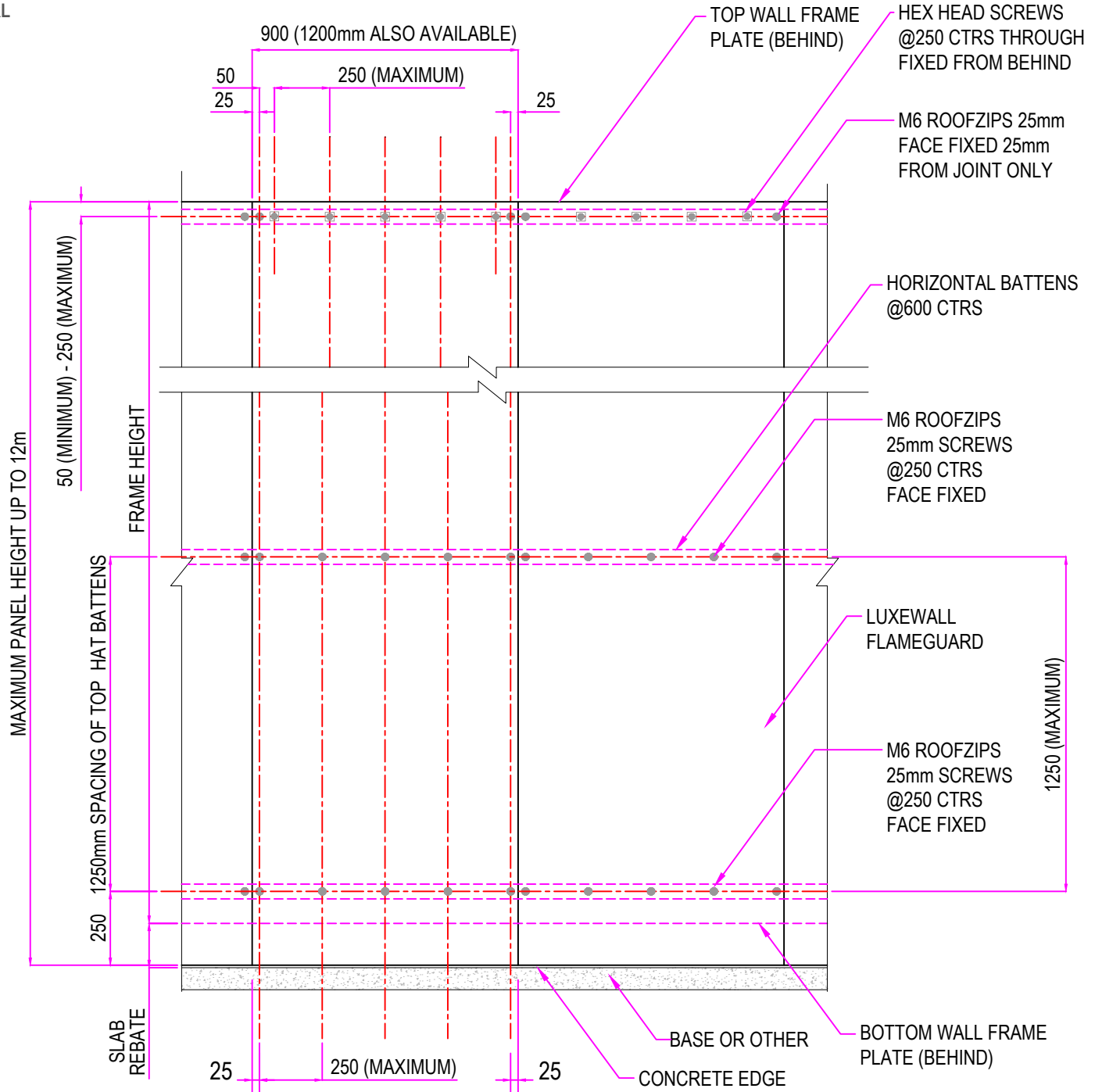
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Panel Fixing Detail 900mm Wide -

LWF-MW-FR026 REV01

50-150mm Panel 60/60/60

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

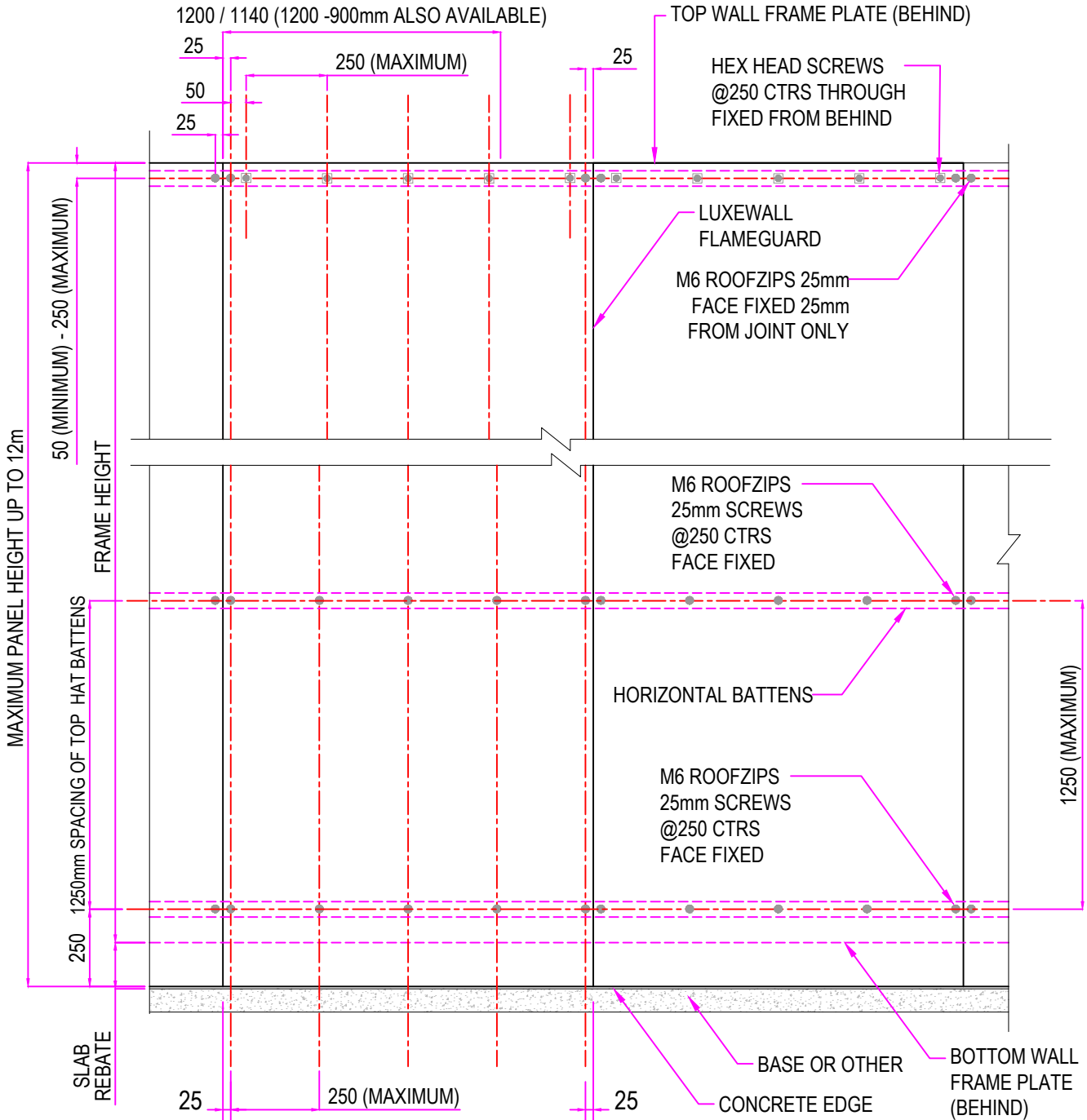
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Panel Fixing Detail 1200-1140mm Wide - 50-150mm Panel 60/60/60

LWF-MW-FR028 REV02

FRL



SCREW FIXING LEGEND

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

PANEL FIXING DETAIL

Note:

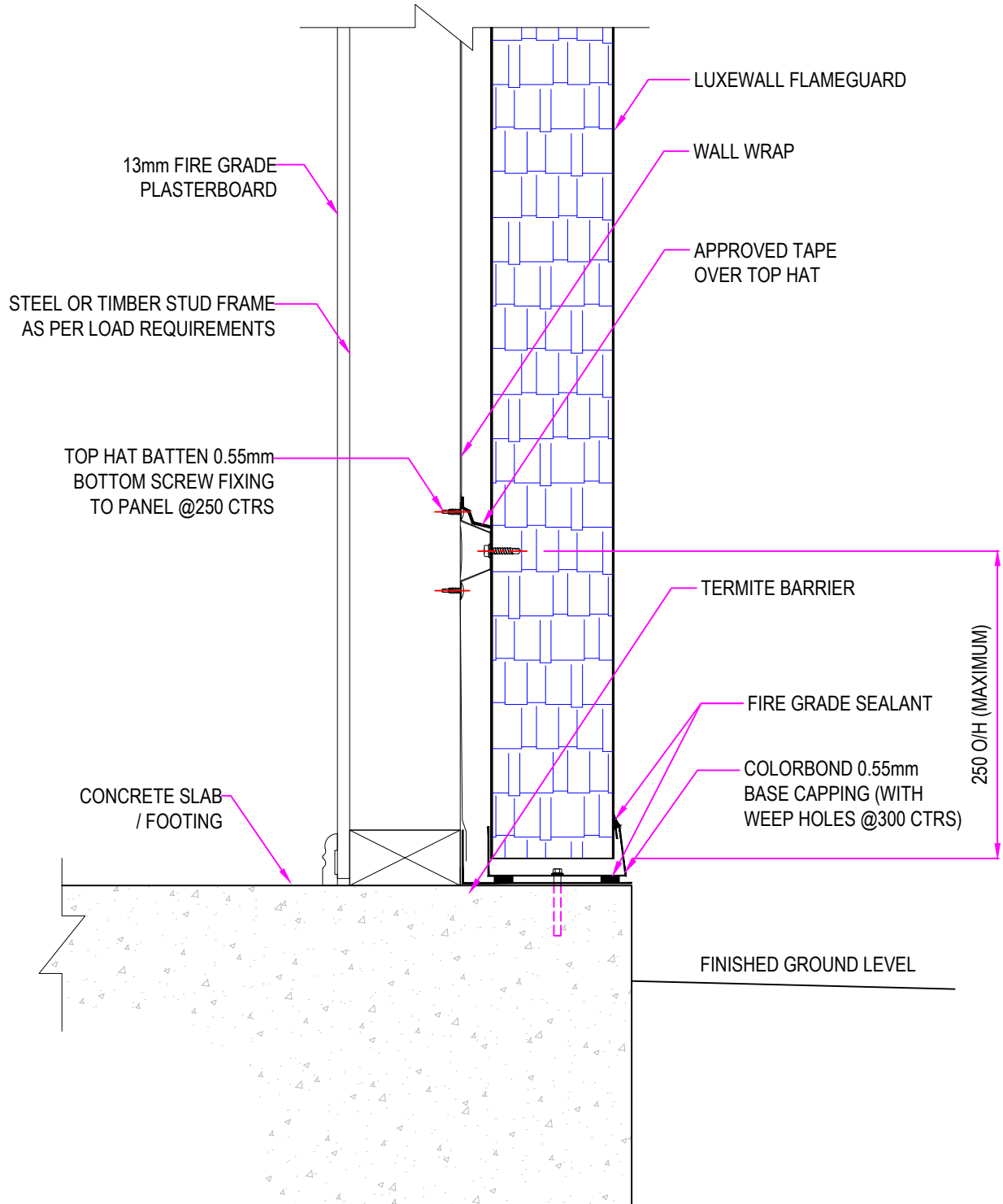
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Base Connection to Slab Non-Recessed -

LWF-MW-FR005 REV00

50-150mm Panel 60/60/60

FRL



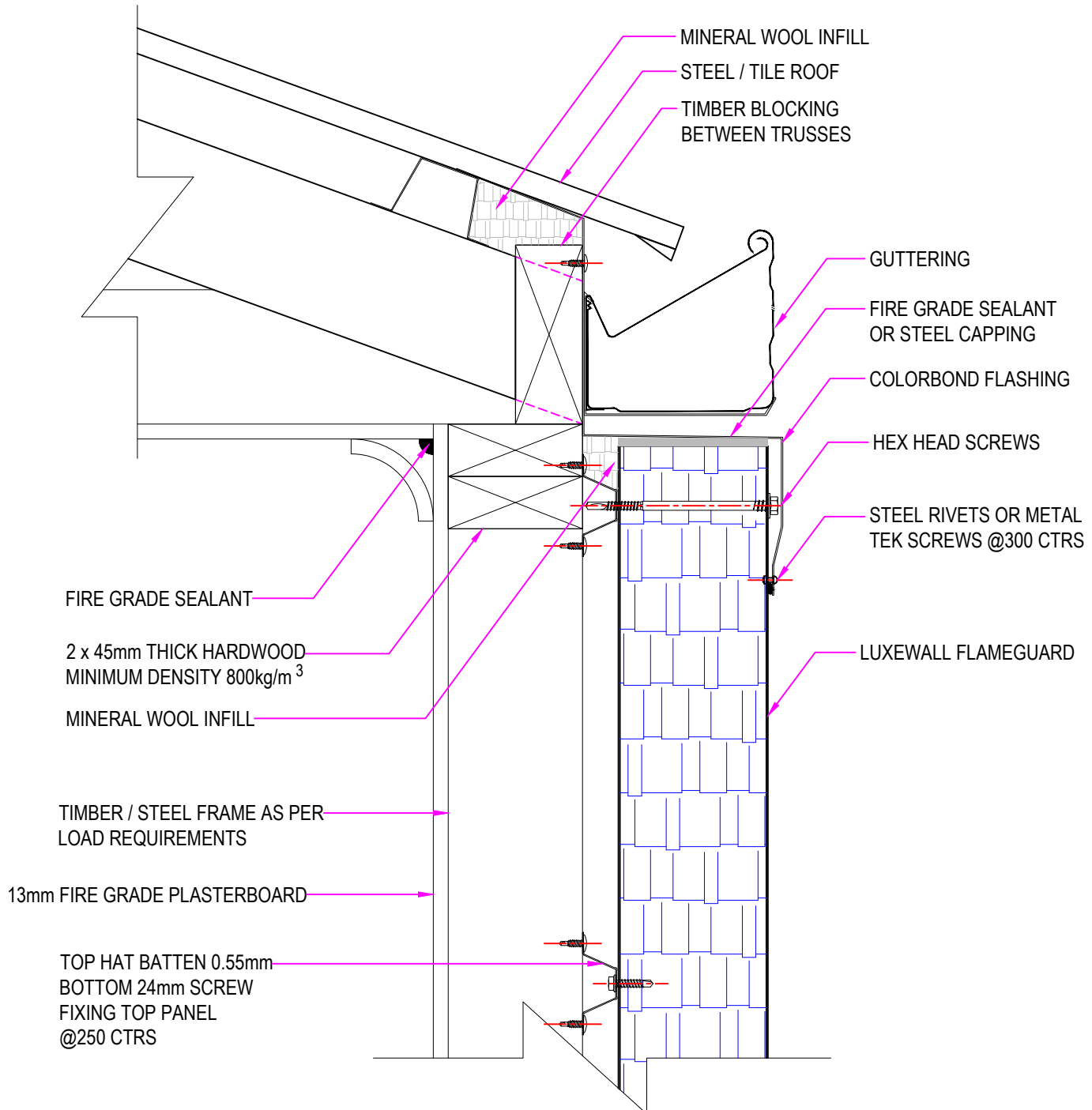
SINGLE STOREY FOOTING DETAIL

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External Wall with Gutter Traditional Framing LWF-MW-FR019 REV00 - 50-150mm Panel 60/60/60

FRL



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Panel Junction - 50-150mm Panel 60/60/60

LWF-MW-FR030 REV00

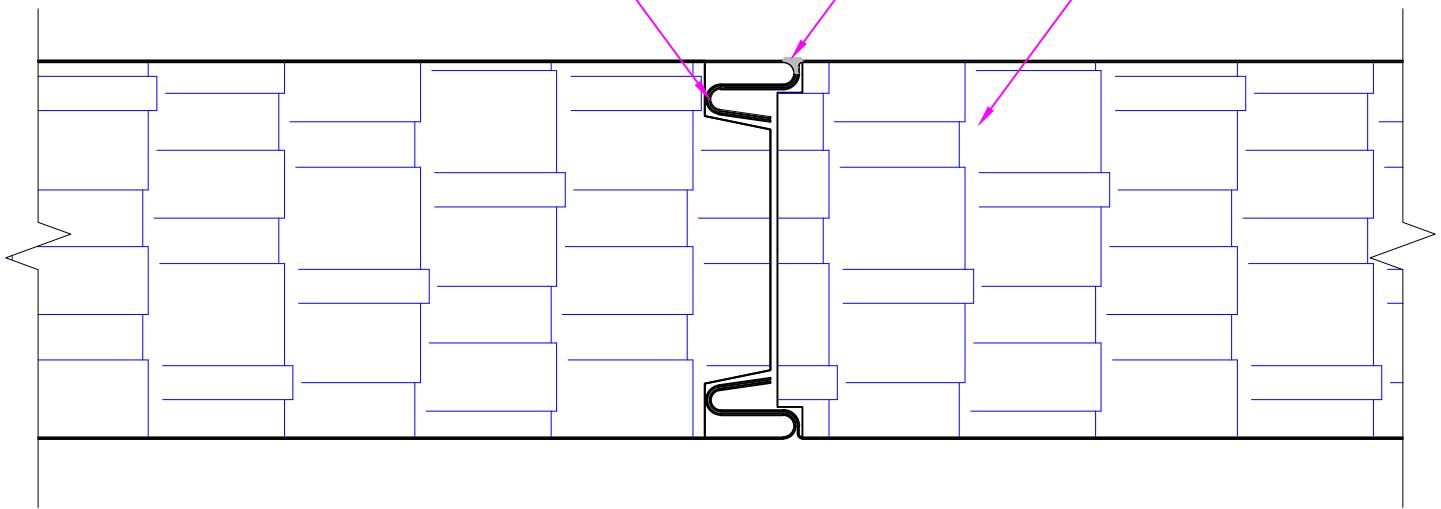
FRL

FIRE SIDE

FIRE GRADE SEALANT
OPTIONAL

SEALANT
OPTIONAL

LUXEWALL FLAMEGUARD



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Construction Overview Wall Wrap -

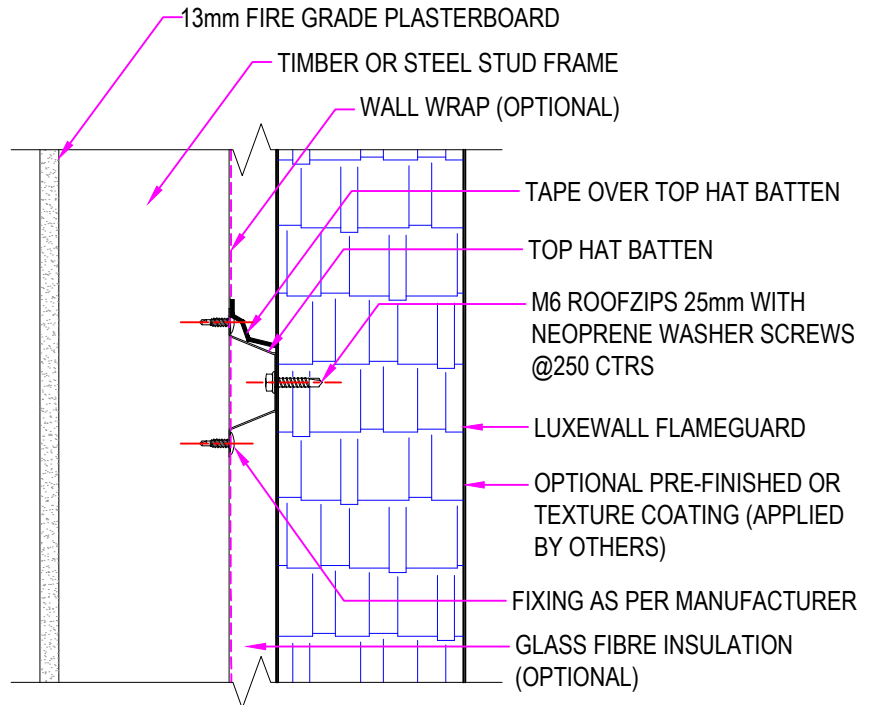
LWF-MW-FR013 REV00

50-150mm Panel 60/60/60

FRL

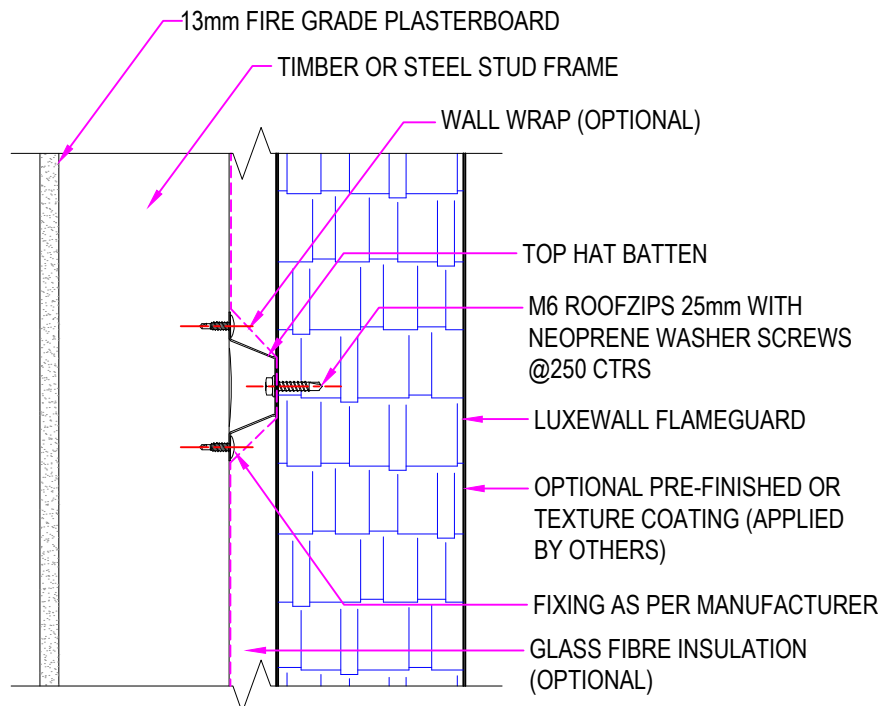
TOP HAT BATTENS OVER WALL WRAP

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:

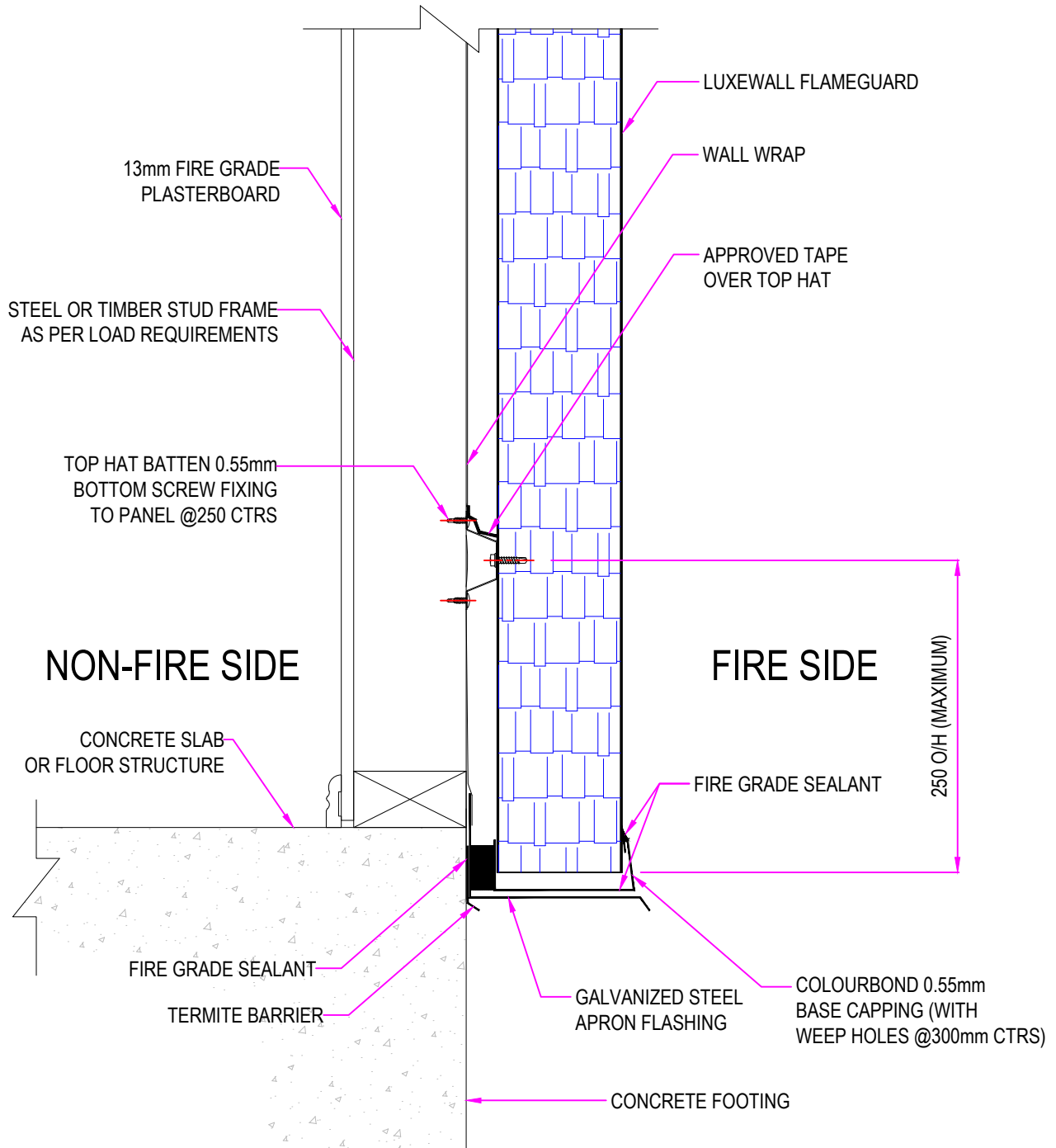
- Refer to notes on page 2 for structural adequacy of the wall system.
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- All exposed core material is to be encapsulated with a non-combustible covering in order to achieve BAL ratings of up to BAL-40
- Panel by Bondor®, screw may be by Bondor®, all other items by others.
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Base Connection Suspended Panel -

LWF-MW-FR003 REV00

50-150mm Panel 60/60/60

FRL



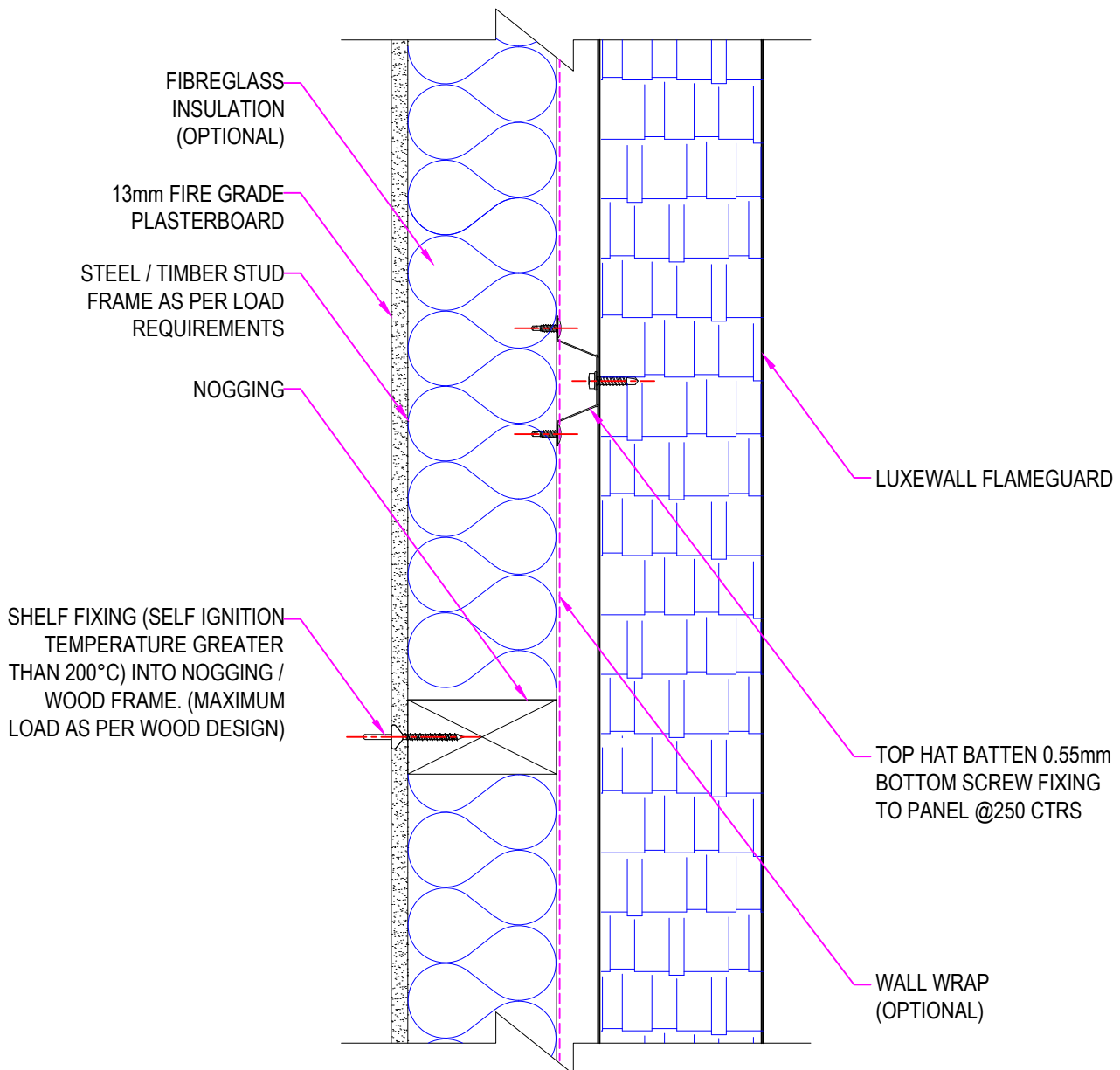
Note:

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Shelf Attachment - 50-150mm Panel 60/60/60

LWF-MW-FR045 REV00

FRL



Note:

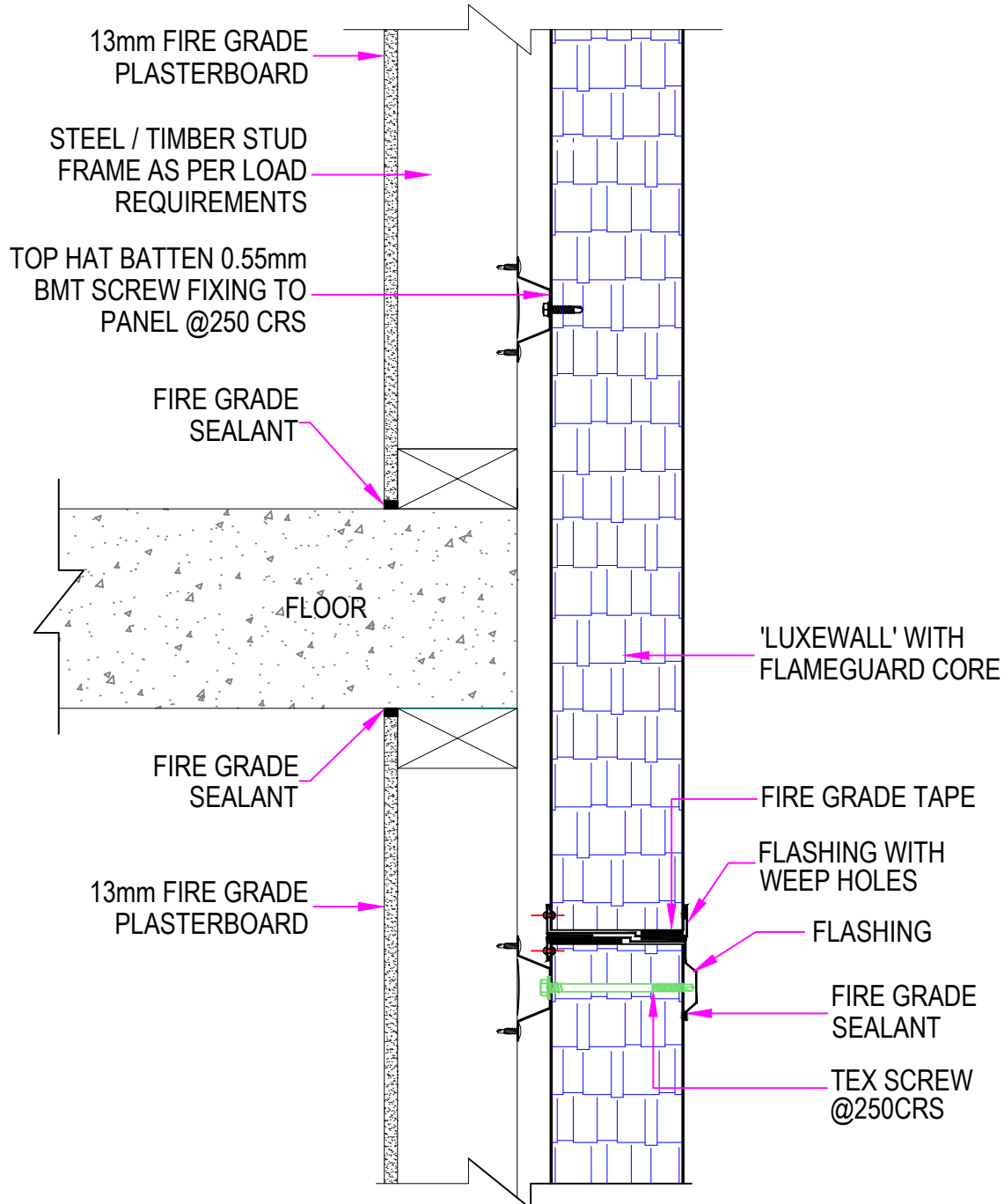
- Refer to notes on page 2 for structural adequacy of the wall system.
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Butt Joint No External Access -

LWF-MW-FR047 REV01

50-150mm Panel 60/60/60

FRL



Note:

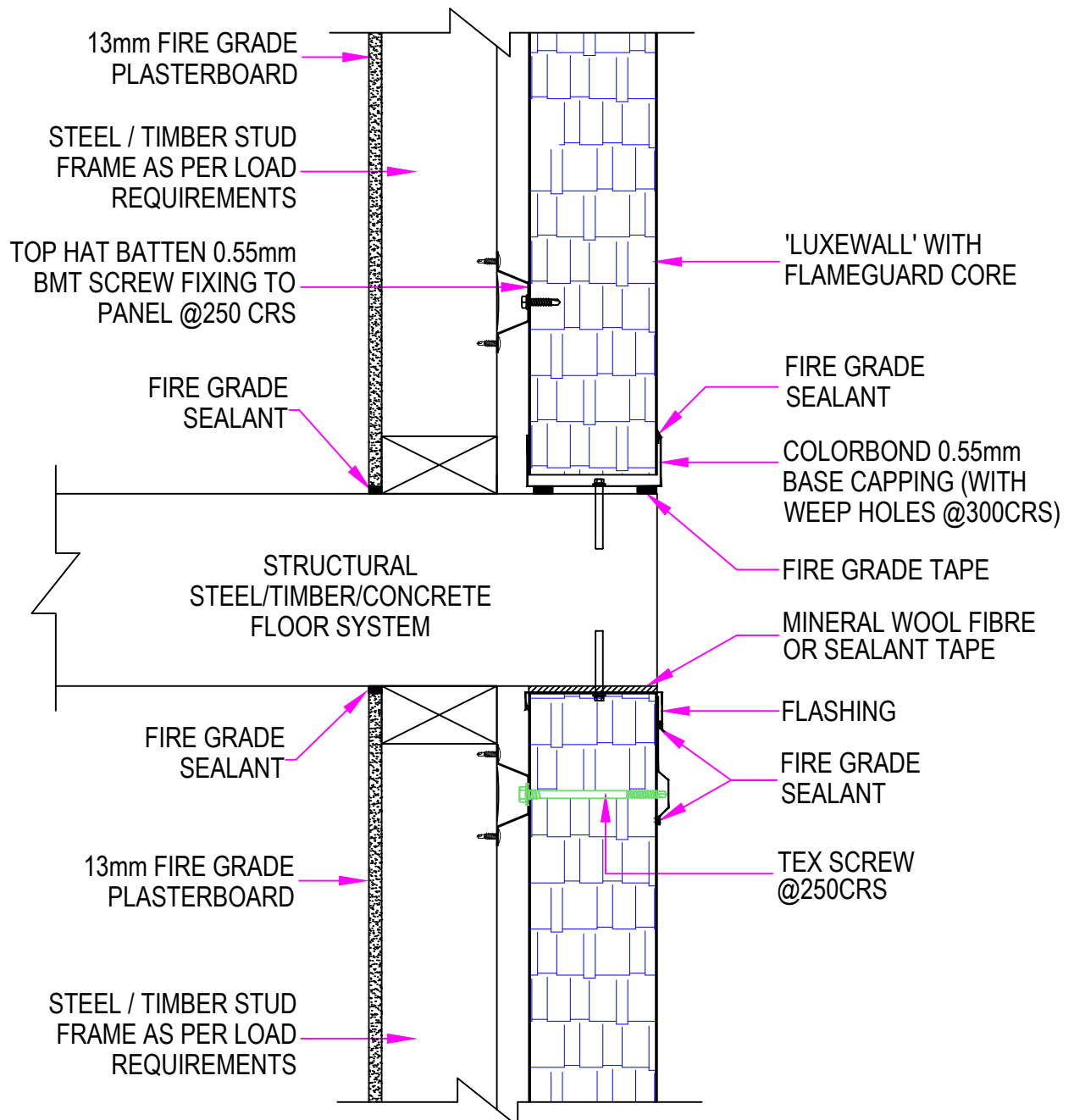
- Refer to notes on page 2 for structural adequacy of the wall system.
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Inter-Floor Finishing - 50-150mm Panel

LWF-MW-FR049 REV01

60/60/60

FRL



Note:

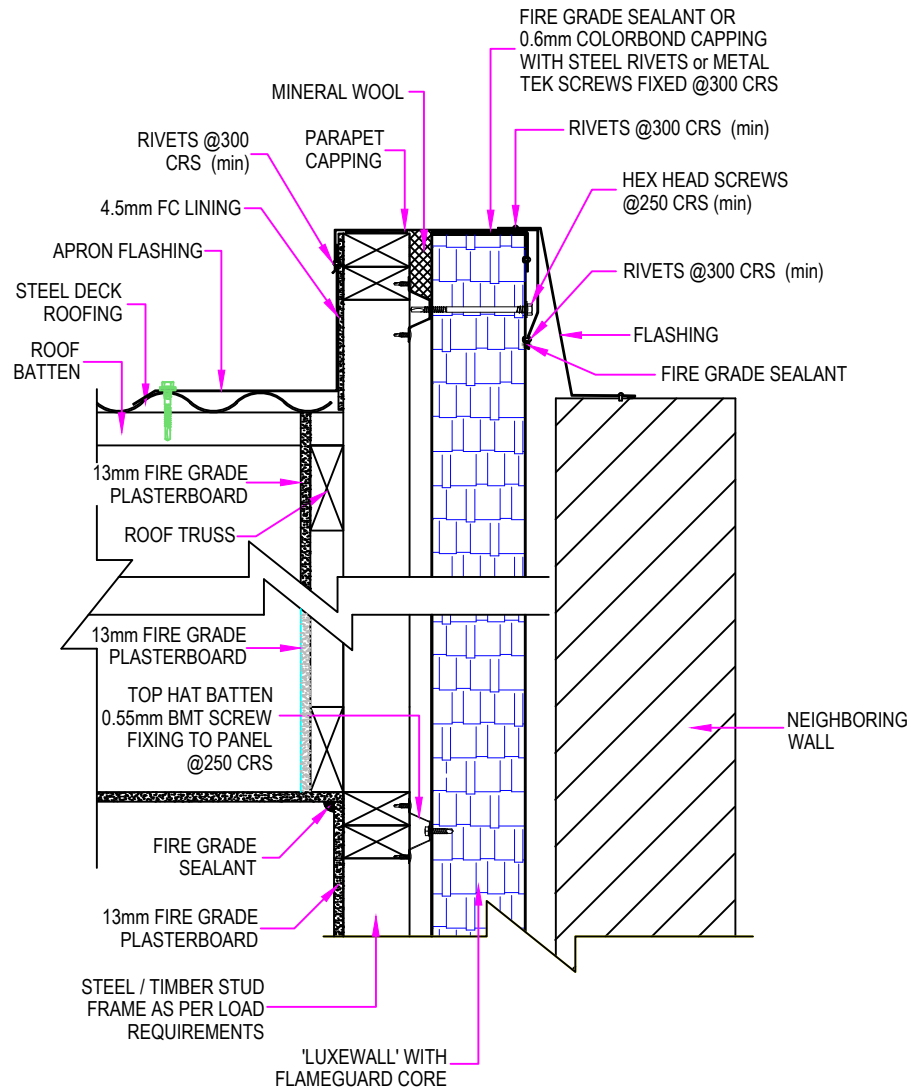
- Refer to notes on page 2 for structural adequacy of the wall system.
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Parapet Option 1 No External Access -

LWF-MW-FR051 REV01

50-150mm Panel 60/60/60

FRL



Note:

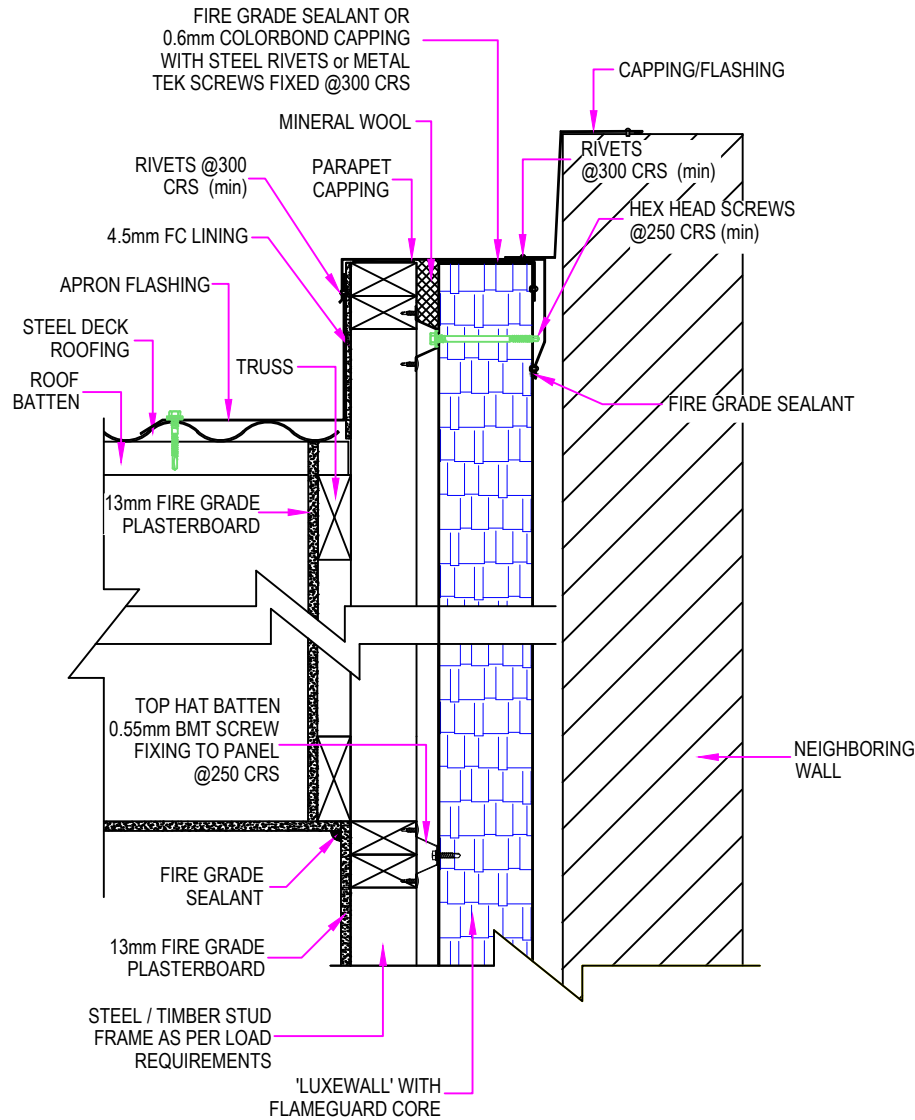
- Refer to notes on page 2 for structural adequacy of the wall system.
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Parapet Option 2 No External Access -

LWF-MW-FR053 REV01

50-150mm Panel 60/60/60

FRL



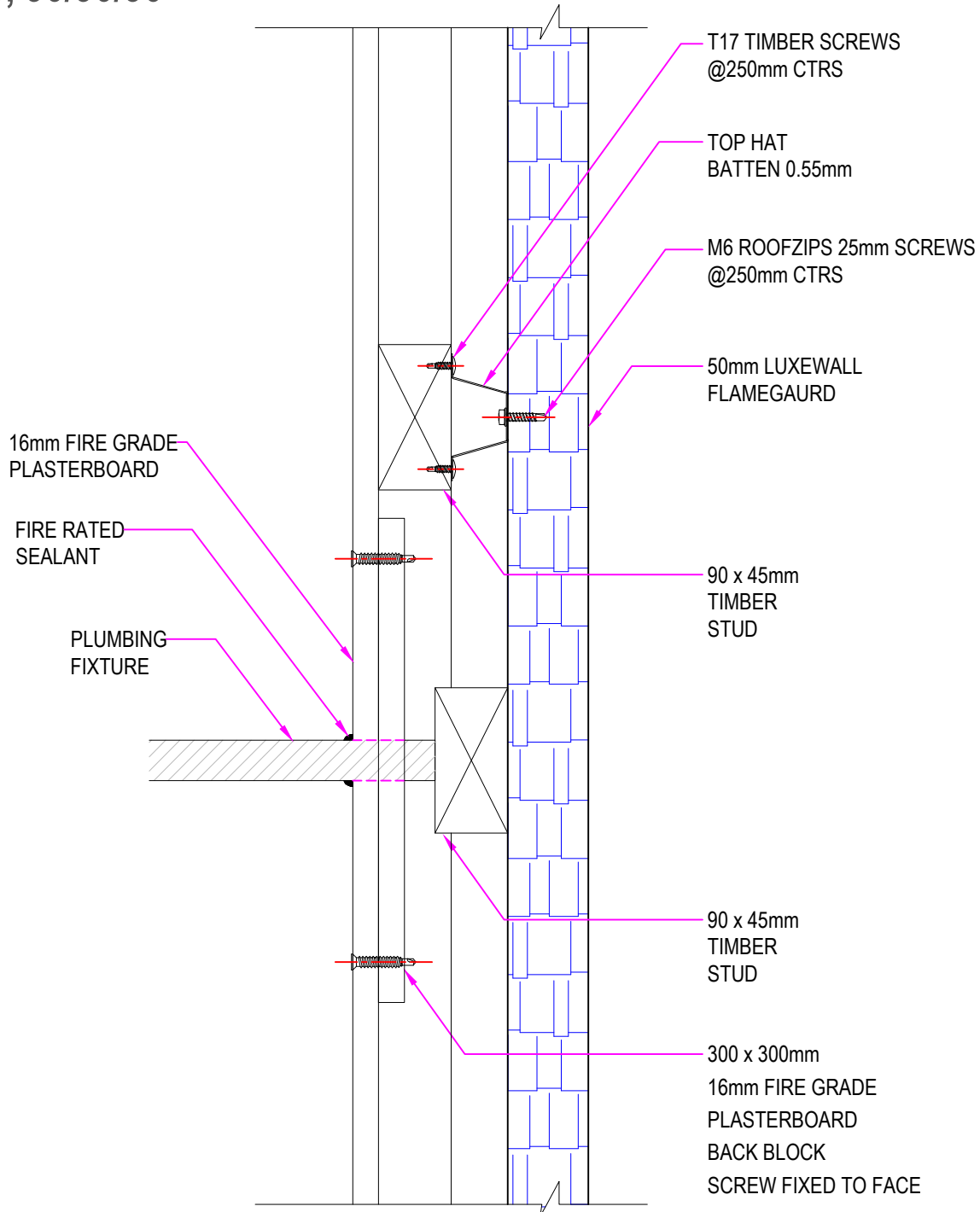
Note:

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Penetrations Plumbing Fixture 50mm Panel LWF-MW-CL001 REV00

60/60/60, 90/90/90

Cladding



PLUMBING FIXTURE ELEVATION

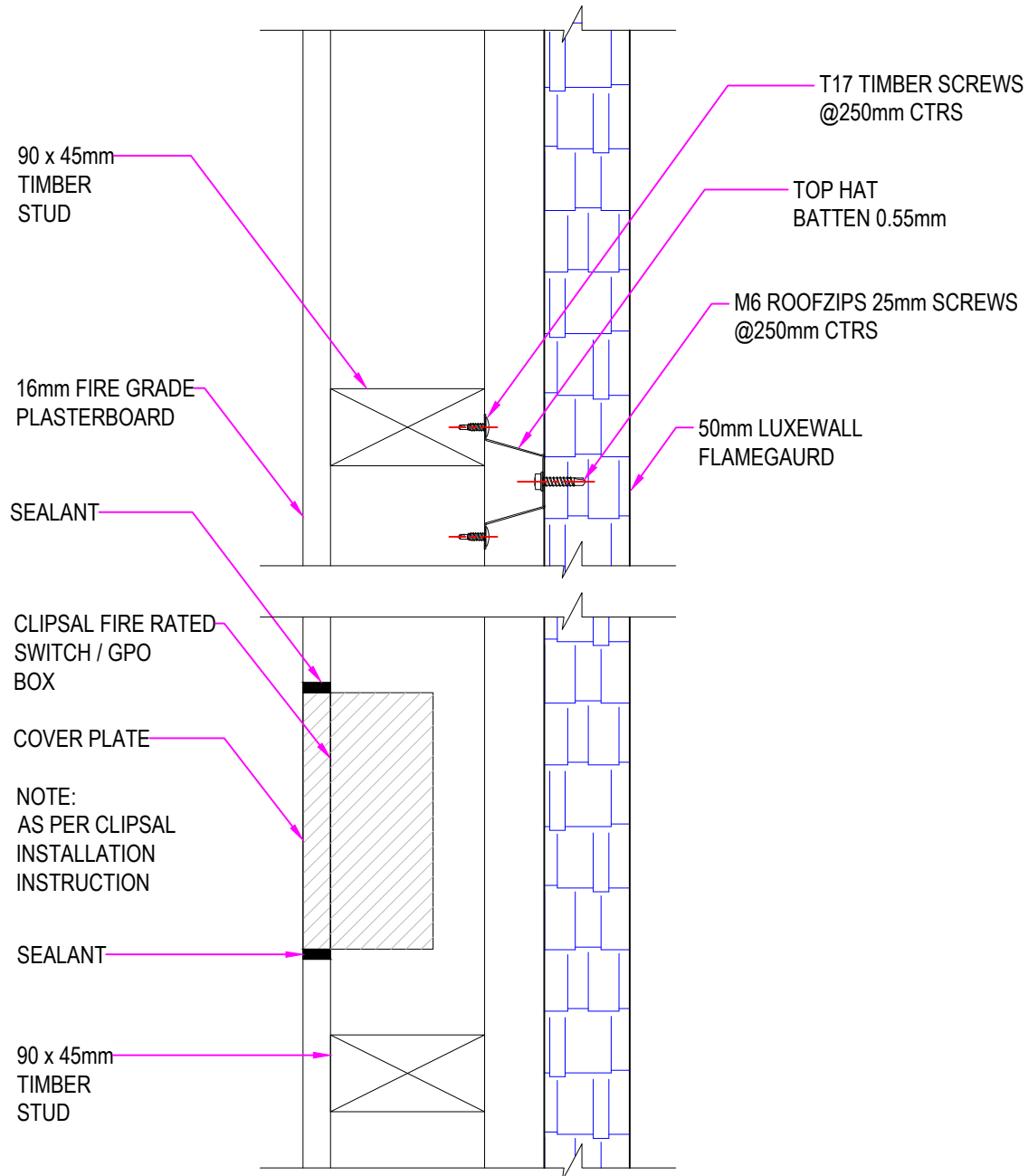
Note:

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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:

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