

Sheet List Table	
Sheet Number	Sheet Title
38.00.00	Drawing Register - Firewall 90 mins
38.18.00	Foundation - Firewall 90 mins
38.18.01	Fascia - Firewall 90 mins
38.18.02	External Corner - Firewall 90 mins
38.18.05	Vertical Control Joint (Fire Break) 90 Mins
38.18.06	Vertical Control Joint (T-Intersection W Conc Block)
38.18.07	Internal Corner (T-section W Conc Block)
38.18.50	2 Way Firewall Cross Section - 90FRR
38.18.90	90 Minute Firewall Information

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System
Integra Construction Systems

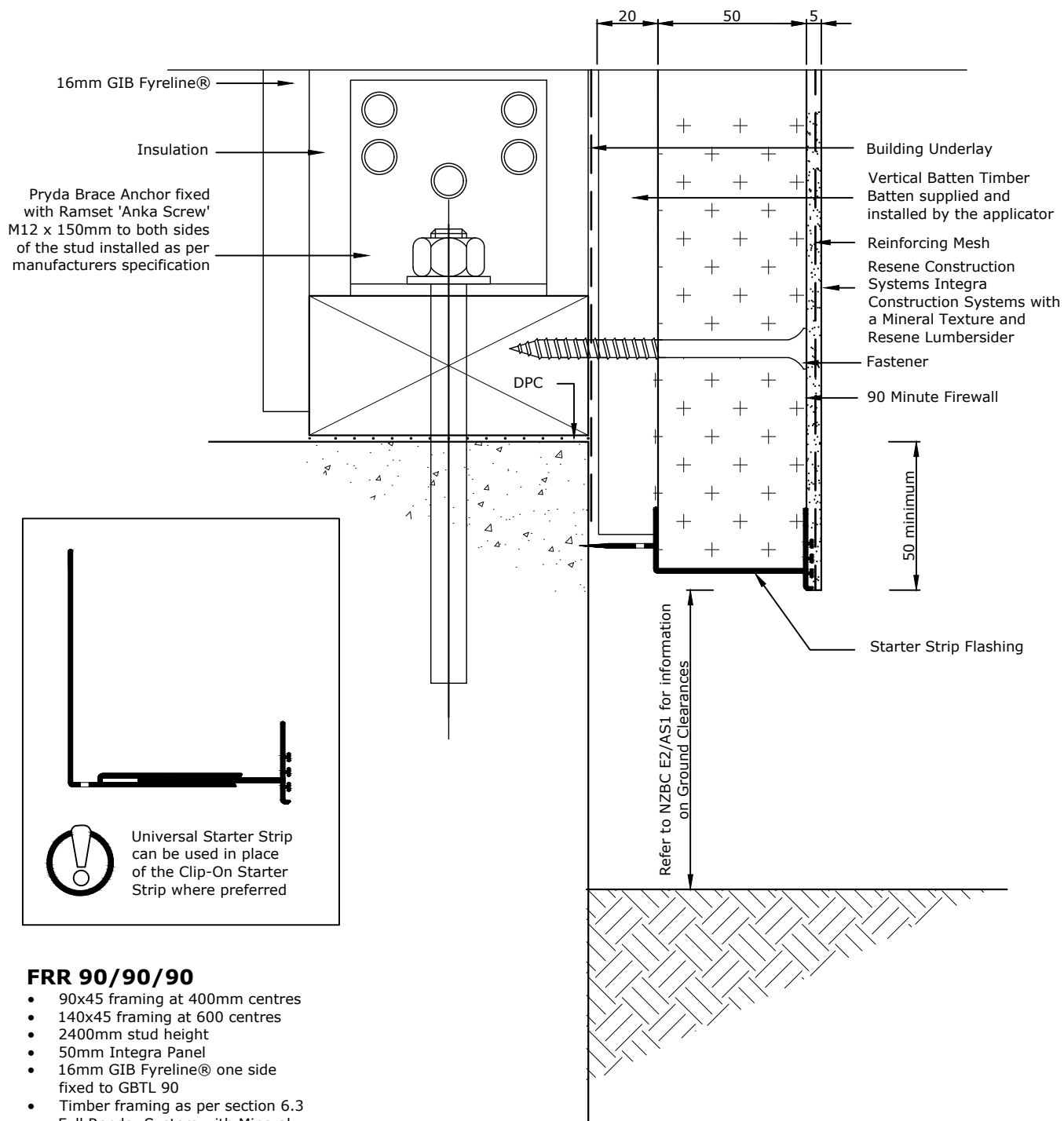
Substrate
90 Minute Firewall

Drawing Name
Drawing Register - Firewall 90 mins

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
38.00.00



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600mm centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
- Timber framing as per section 6.3
- Full Render System with Mineral Texture and Resene Lumbersider



The external walls are required to be fire rated depending upon the situation when the wall is close to a boundary or a neighbouring property in order to comply with NZBC clause C3. The walls included in this section are load bearing walls as per NZS 3604. Special attention must be paid to junctions and penetrations in external walls. The external claddings may be required to be fixed over a cavity and the cavity must not open into the roof space or sub floor space.

For buildings within the scope of NZS 3604 the bottom plates for all fire rated walls must be supported and fixed to floors using a Pryda Brace Anchor fixed with Ramset 'Anka Screw' M12 x 150mm or proprietary fasteners as per Section 7.5.12. of NZS 3604. For the Specific Engineering Design projects (SED), it is the structural engineer/designer's responsibility to ensure that the floor and wall connections are designed/ constructed to withstand the emergency loading requirements expected as per Clause B1 of NZBC.

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System
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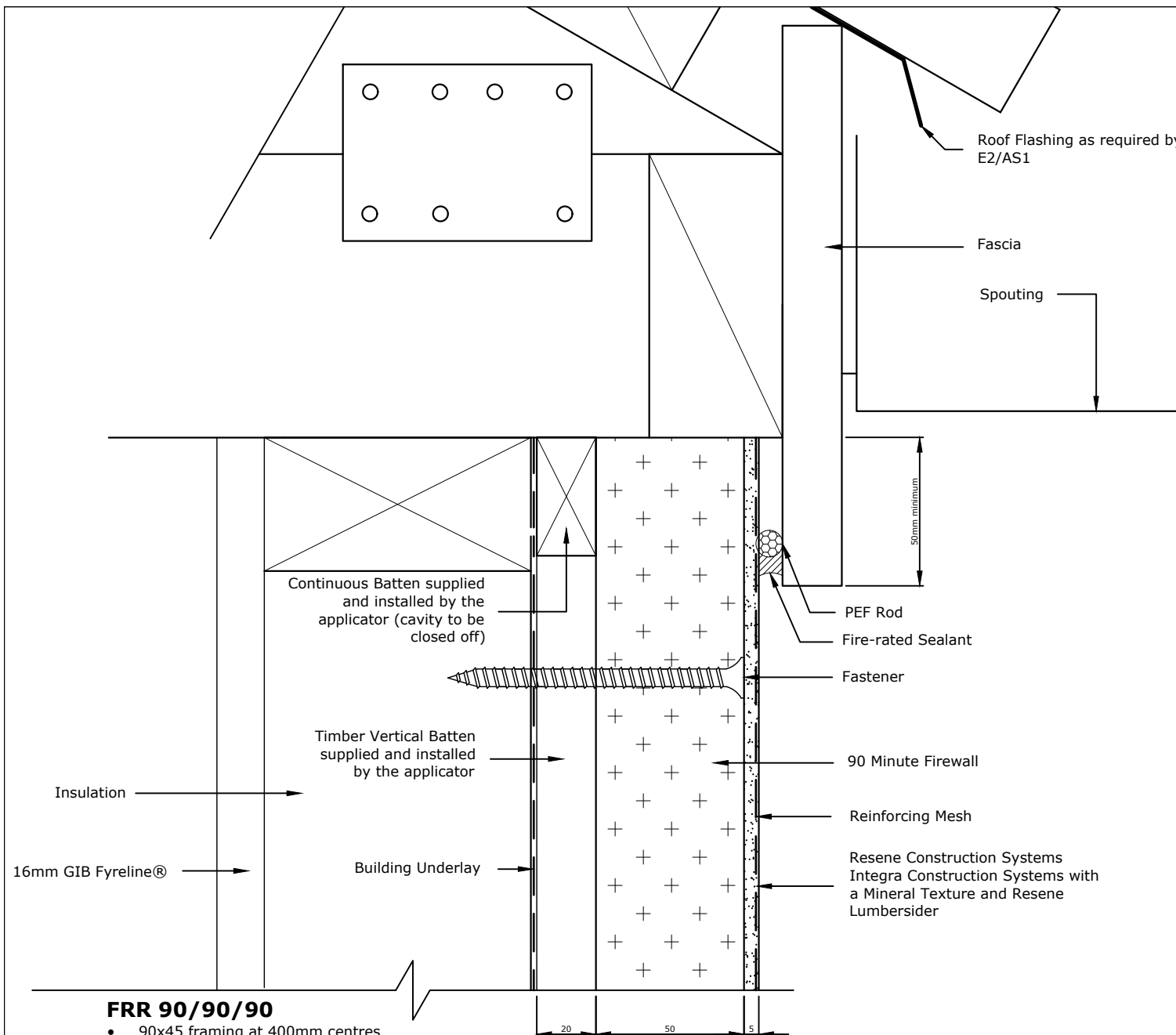
Substrate
 90 Minute Firewall

Drawing Name
 Foundation - Firewall 90 mins

Scale
 1 : 2 @ A4

Date
 1 November 2017

Sheet
 38.18.00



FRR 90/90/90

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- 140x45 framing at 600 centres
- 2400mm stud height
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System
 Integra Construction Systems

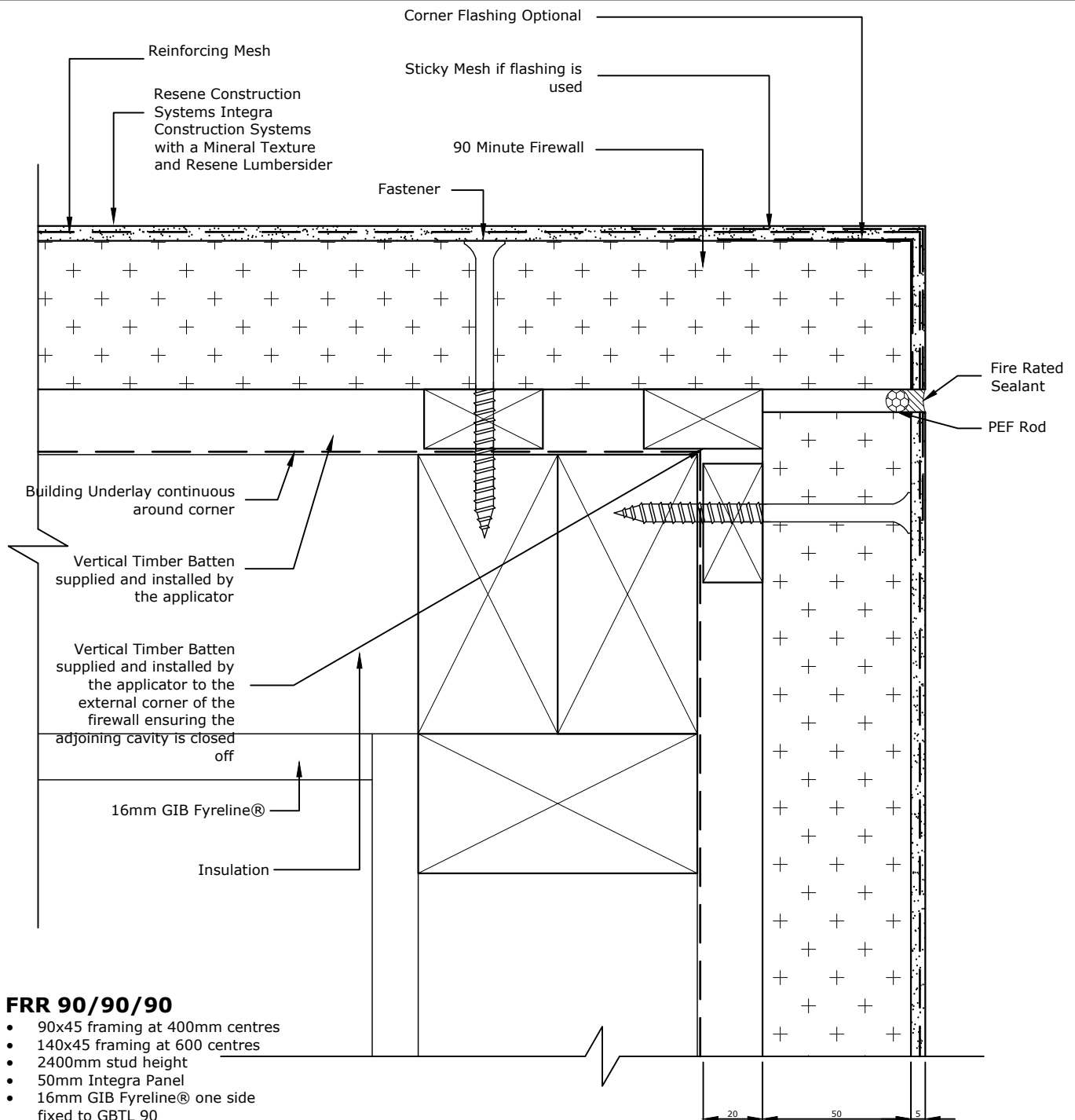
Substrate
 90 Minute Firewall

Drawing Name
 Fascia - Firewall 90 mins

Scale
 1 : 2 @ A4

Date
 2 June 2019

Sheet
 38.18.01



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600 centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
- Timber framing as per section 6.3
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System
 Integra Construction Systems

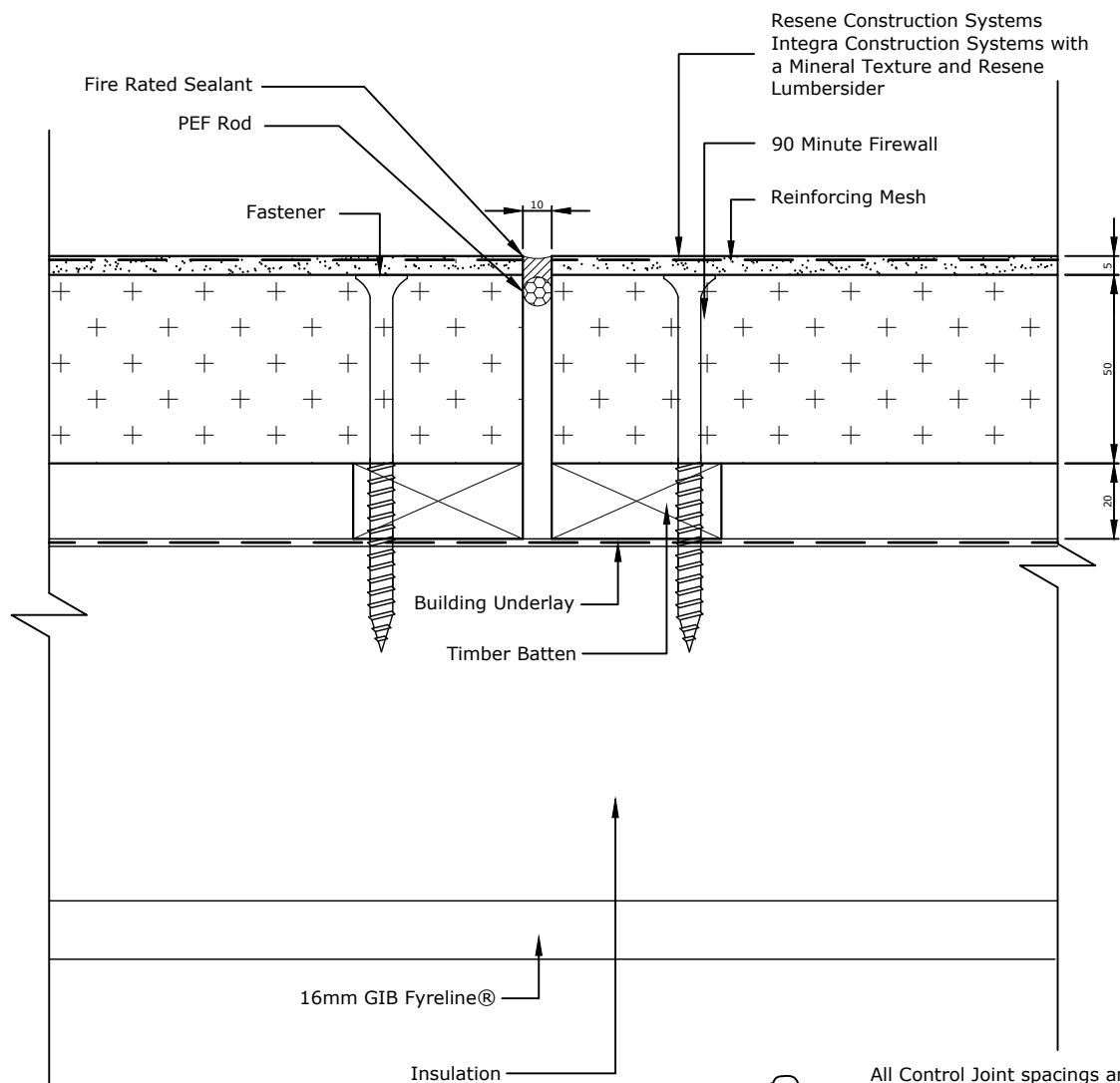
Substrate
 90 Minute Firewall

Drawing Name
 External Corner - Firewall 90 mins

Scale
 1 : 2 @ A4

Date
 1 November 2017

Sheet
 38.18.02



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600 centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
- Timber framing as per section 6.3
- Full Render System with Mineral Texture and Resene Lumbersider



All Control Joint spacings and setouts are the responsibility of the Designer, for suggested locations refer to RCS TradeSpec™ Document 1.4

Ensure that a horizontal batten is used to form a horizontal fire break between the vertical fire breaks where the wall meets the soffit/fascia/drainage joint



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Integra Construction Systems

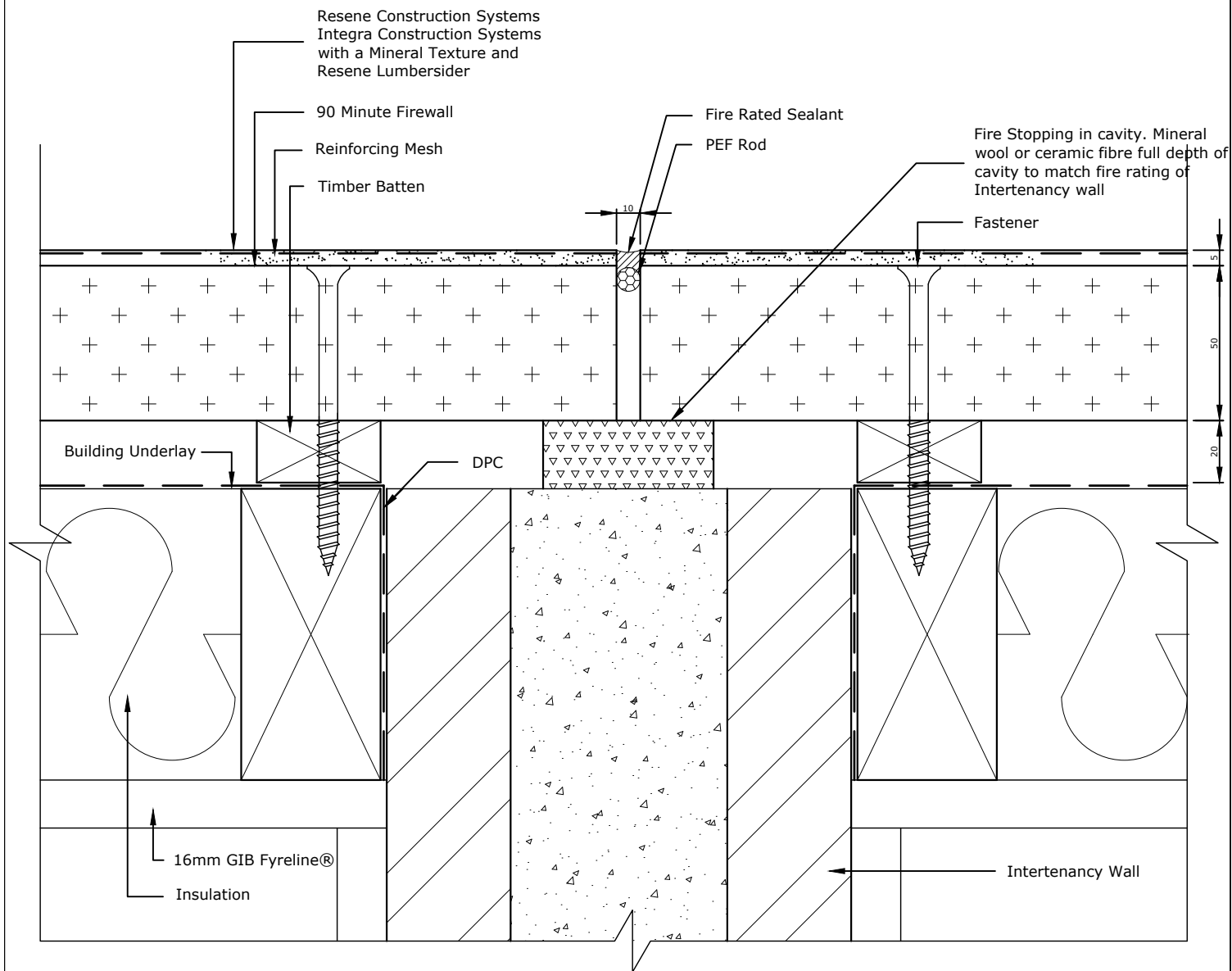
Substrate
90 Minute Firewall

Drawing Name
Vertical Control Joint (Fire Break) 90 Mins

Scale
1 : 2 @ A4

Date
1 November 2017

Sheet
38.18.05



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600 centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
- Timber framing as per section 6.3
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System
 Integra Construction Systems

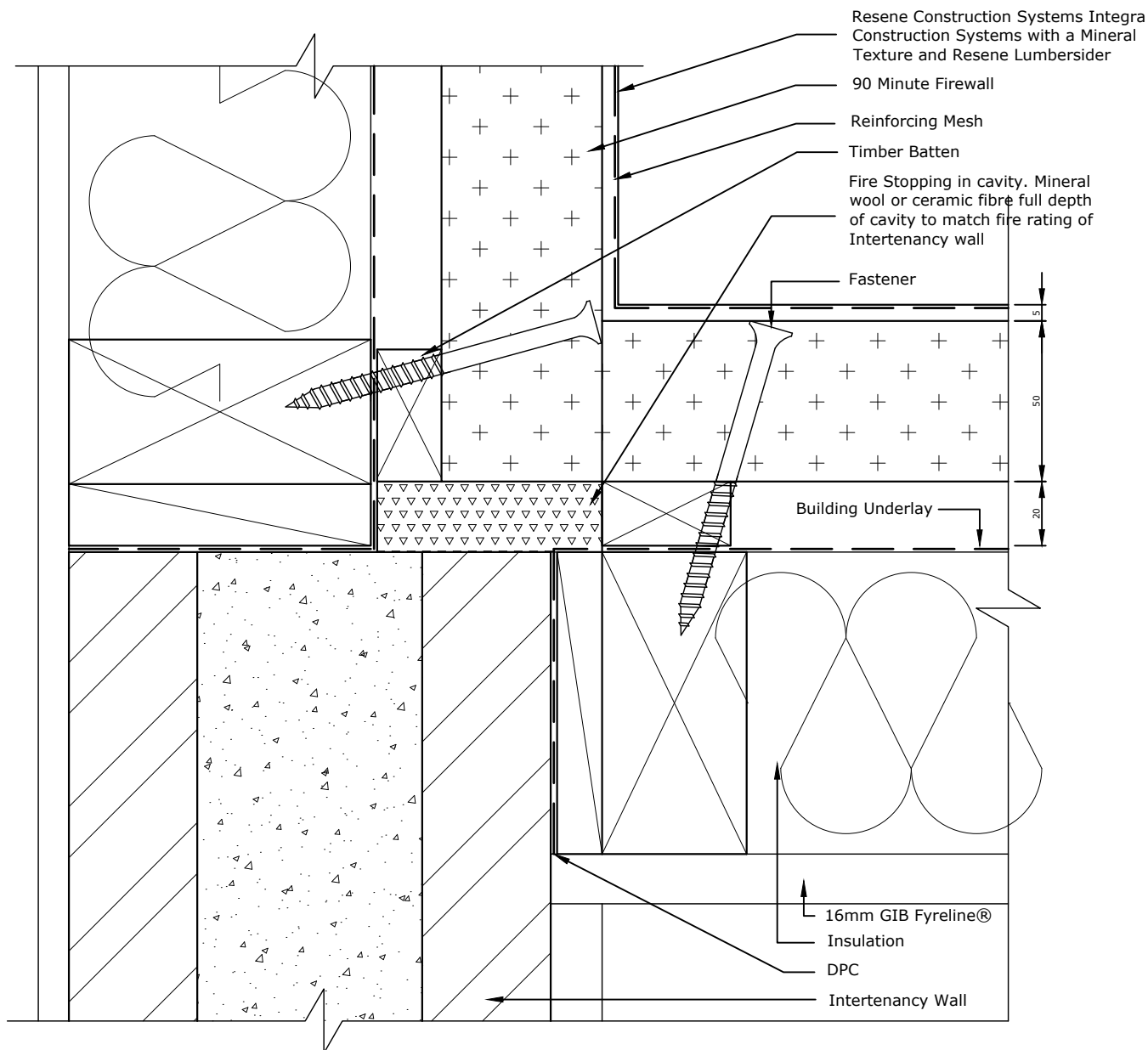
Substrate
 90 Minute Firewall

Drawing Name
 Vertical Control Joint (T-Intersection W Conc Block)

Scale
 1 : 2 @ A4

Date
 1 November 2017

Sheet
 38.18.06



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600 centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
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System
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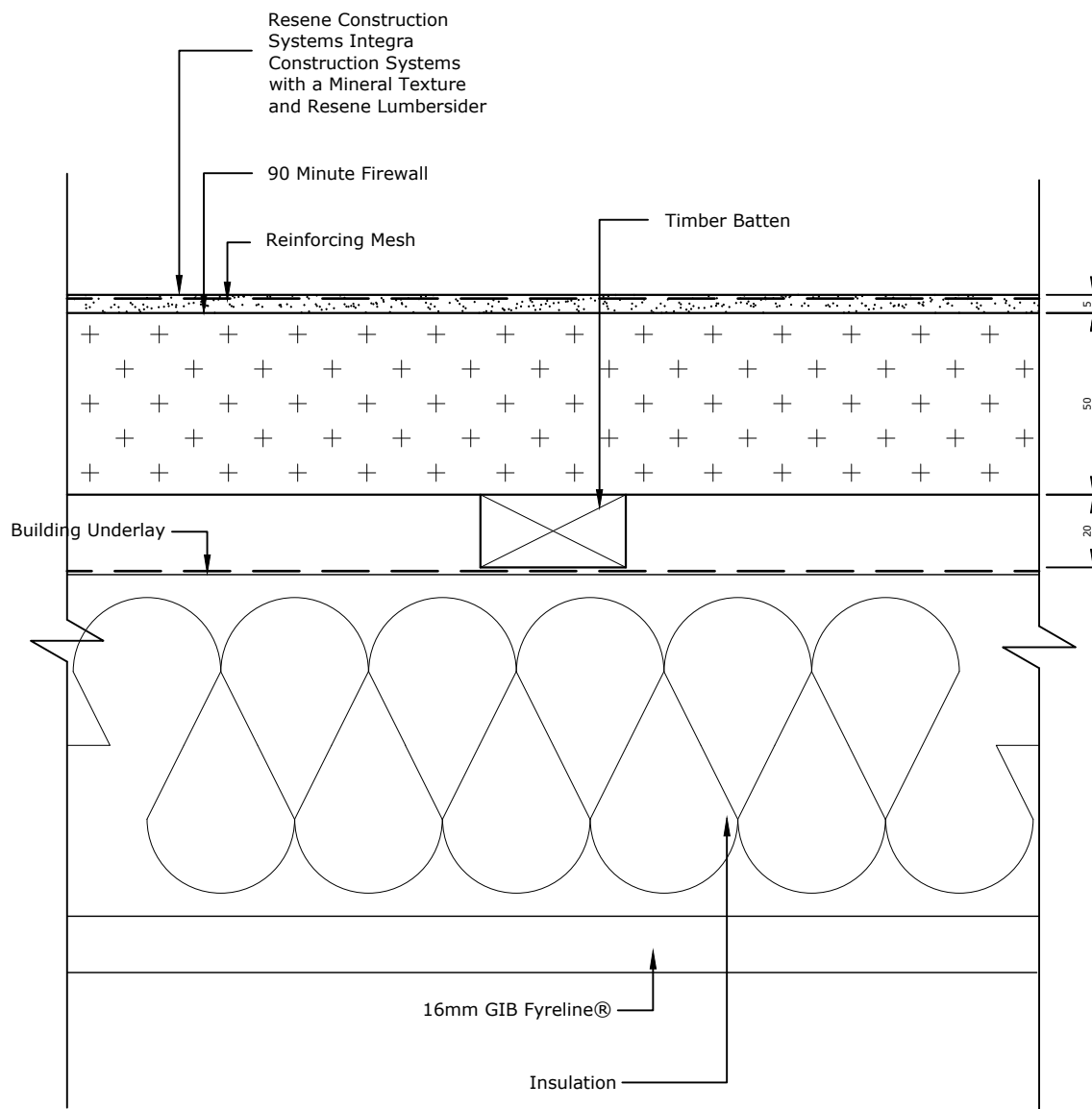
Substrate
 90 Minute Firewall

Drawing Name
 Internal Corner (T-section W Conc Block)

Scale
 1 : 2 @ A4

Date
 1 November 2017

Sheet
 38.18.07



FRR 90/90/90

- 90x45 framing at 400mm centres
- 140x45 framing at 600 centres
- 2400mm stud height
- 50mm Integra Panel
- 16mm GIB Fyrelite® one side fixed to GBTL 90
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Substrate
 90 Minute Firewall

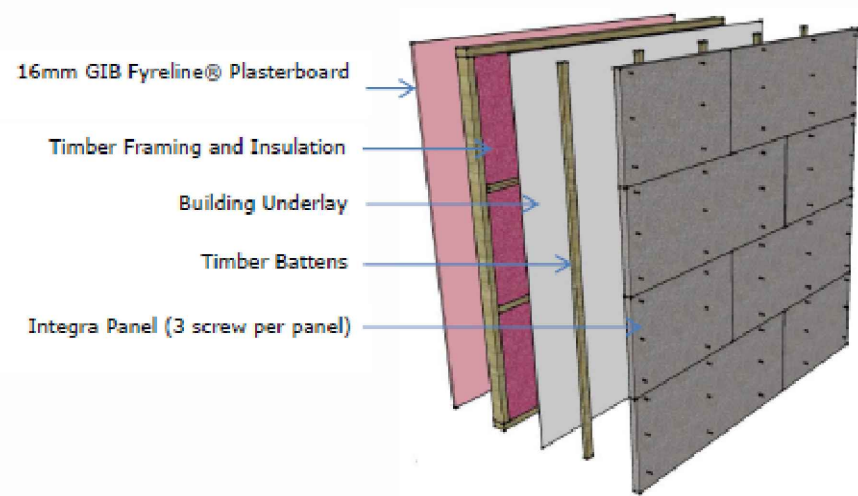
Drawing Name
 2 Way Firewall Cross Section - 90FRR

Scale
 1 : 2 @ A4

Date
 1 November 2017

Sheet
 38.18.50

**INTL90 - TWO Way FRR - Timber Frame - 90 minute - Integra
Lightweight Concrete Façade System with 1 layer of 16mm GIB
Fyreline®**



Framing to comply with

- NZBC B1 – Structure: AS1 Clause 3 – Timber (NZS 3604) or VM1 Clause 6 – Timber (NZS 3603)
- NZBC B2 – Durability: AS1 Clause 3.2 – Timber (NZS 3602)
- Studs at 600mm centres maximum
- Nogs at 1200mm centres for Horizontal fixing

Cladding to comply with

- NZBC Clause B1 Structure
- NZBC Clause B2 Durability
- NZBC Clause E2 External Moisture
- NZBC Clause F2 Hazardous Building Materials

Wall Heights

- Loadbearing – Framing dimensions and height as determined by NZS 3604 stud and top plate tables for loadbearing walls.

Linings

- layer of 16mm GIB Fyreline® Plasterboard on the inside of the frame
- Vertical or Horizontal fixing permitted. Sheets shall be touch fitted.
- When fixing vertically, full height sheets shall be used where possible.
- All sheet joints must be formed over solid timber framing.

Lining Fasteners

- 51mm x 7g GIB® Grabber® High Thread Drywall Screws

Lining Fastener Centres

- 300mm centres on the sheet perimeter.
- Place fasteners 12mm from bound sheet edges and 18mm from sheet ends.
- Single screws or nails at 300mm centres to intermediate studs.

Linings Jointing

- All fastener heads stopped and all sheet joints tape reinforced and stopped in accordance with the publication entitled "GIB® Site Guide",

Cladding

- 1 layer of 50mm Integra Lightweight Concrete Panel installed over a Timber Batten

Cladding Fastener Centres

- No closer than 50mm from the perimeter of the panel
- 3 screws per panel per stud
- Screws to be just below the surface of the panel

Cladding Mortar Joints

- Where panels join another panel or joints must use Rockcote MultiStop Bedding Compound to mortar the panels together.

Battens

- 20 mm minimum thickness – to give a 20 mm minimum width cavity
- 40 mm minimum width
- H3.1 treated
- SG6 grade radiata pine timber
- 75mm x 3.15mm hot-dip galvanised
- Fastened at 300mm centres

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