



SIKA STANDARD DETAILS FOR SikaProof[®] Bentonite

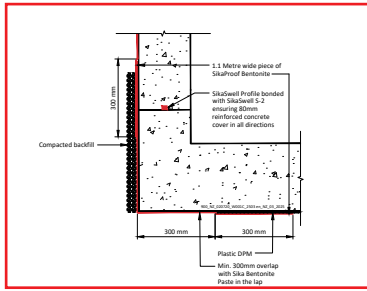
VERSION /0626-01 | SIKA (NZ) LTD

WATERPROOFING

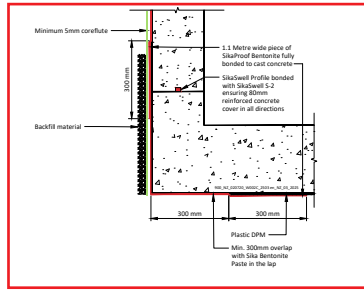
BUILDING TRUST



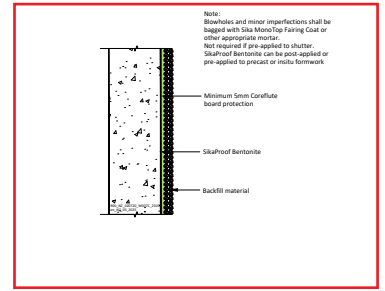
SikaProof® Bentonite OVERVIEW



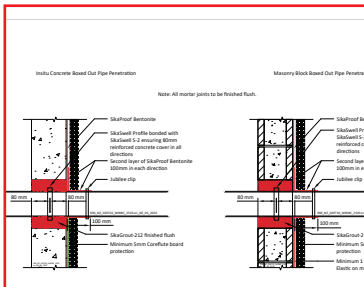
4 900_NZ_020720_W001C_2503
SikaProof-Bentonite-Plastic-DPM-overlap-Compacted-Backfill



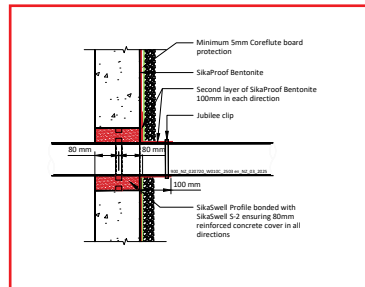
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SikaProof-Bentonite-Plastic-DPM-overlap-Free-Draining-Backfill



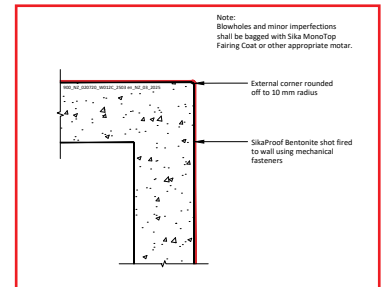
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SikaProof-Bentonite-Insitu-or-Precast-pre-applied-or-post-applied-application-to-wall



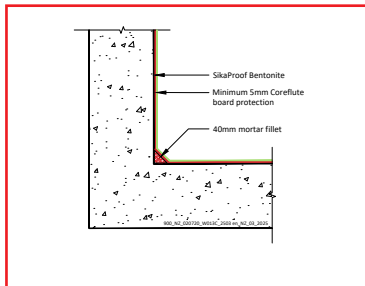
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Insitu-Concrete-and-Masonry-Block-Boxed-Out-Pipe-Penetration



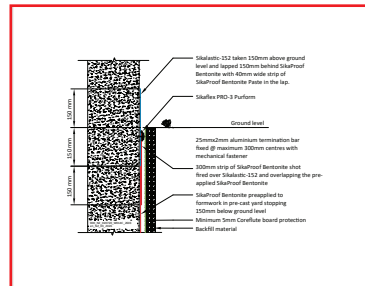
8 900_NZ_020720_W010C_2503
Cast-In-Pipe-Penetration-Free-Draining-Backfill



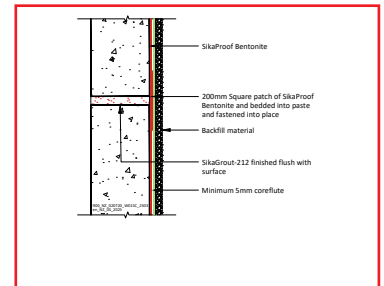
9 900_NZ_020720_W012C_2503
Concrete-Walls-External-Corner-Post-Fixed



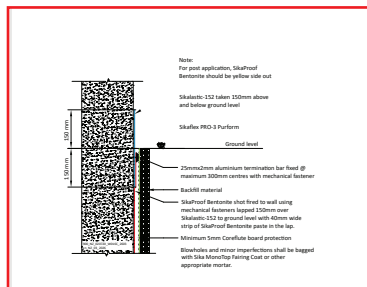
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Concrete-Walls-Internal-Corner-Post-Fixed



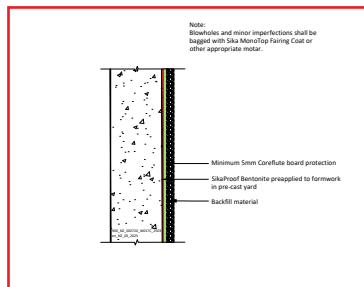
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Pre-cast-Free-Draining-Termination-at-Ground-Level



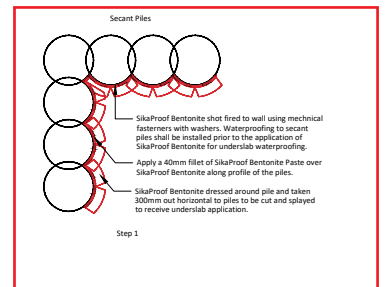
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Concrete-Walls-Tie-Bolt-Hole-Compacted-or-Free-Draining-Backfill



13 900_NZ_020720_W016C_2503
Pre-cast-Free-Draining-Termination-at-Ground-Level

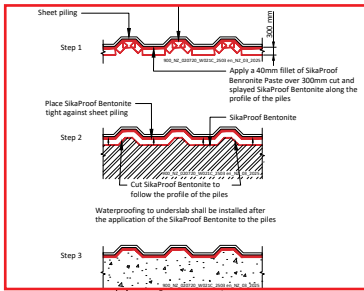


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Pre-cast-Free-Draining-Backfill-Application-to-Walls

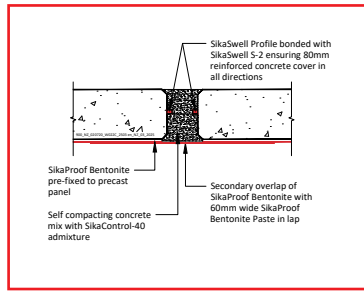


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Water-Proof-to-Secant-Piles-Step_1_and_2

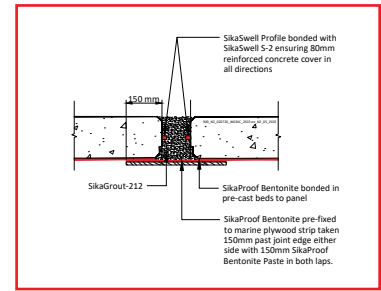
SikaProof® Bentonite OVERVIEW



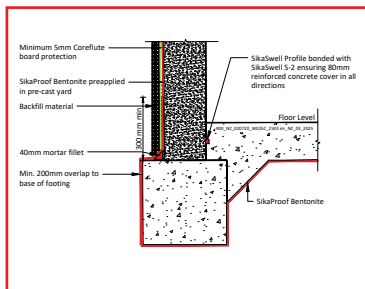
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Water_Proof_to_Steel_Sheet_Piling



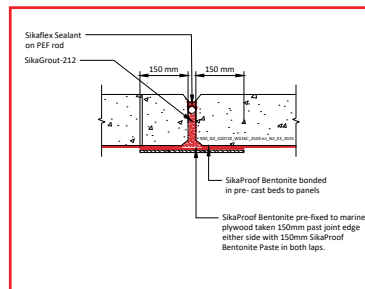
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Pre-cast-Stitch-Joint-Detail-Easy-Access



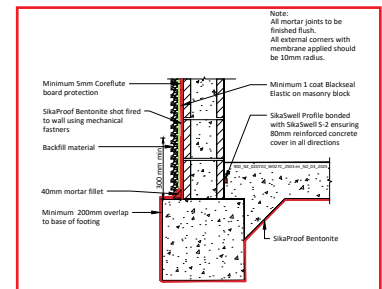
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Pre-cast-Stitch-Joint-Detail-for-Limited-Access-Installation-2



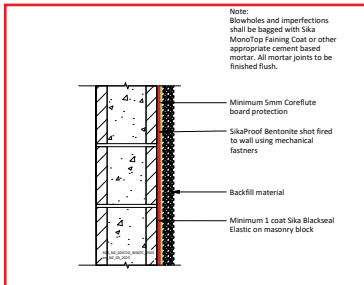
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Pre-cast-Panel-Footing-Junction



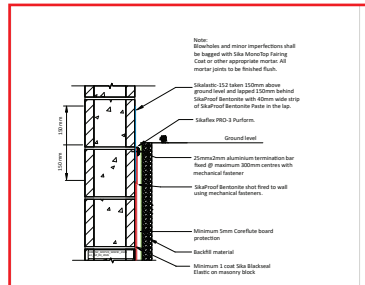
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Pre-cast-Panel-sealant-joint-Detail-for-limited-access-install



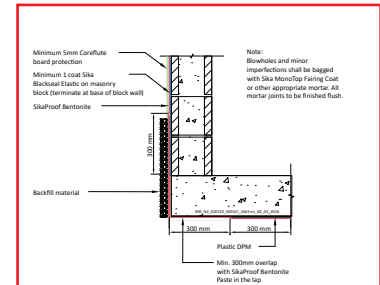
21 900_NZ_020720_W027C_2503
Masonry-Footing-Junction



22 900_NZ_020720_W028C_2503
Masonry-block-application-to-walls

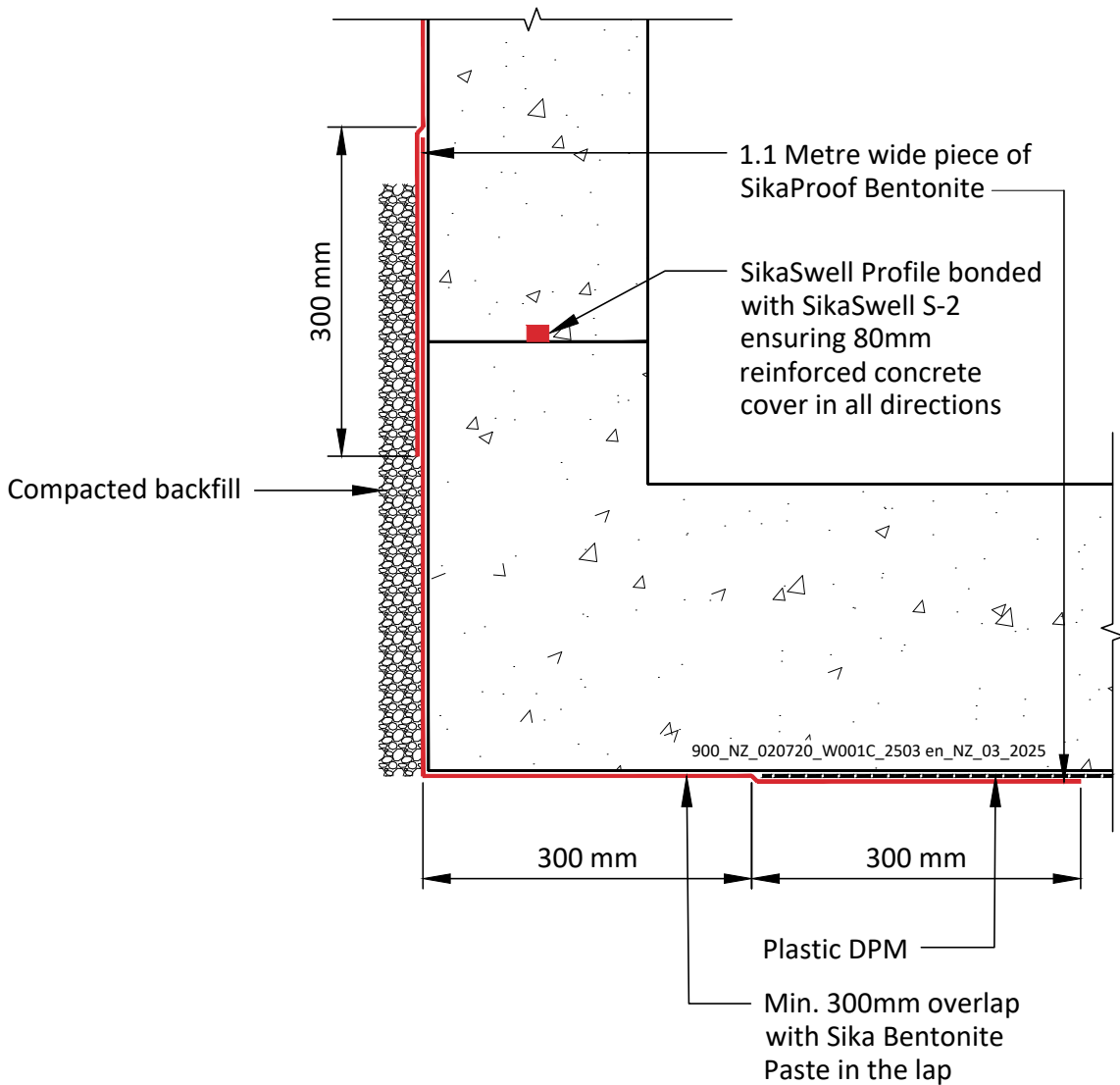


23 900_NZ_020720_W029C_2503
Masonry-block-application-to-walls



24 900_NZ_020720_W032C_2503
Masonry-Block-Plastic-DPM-Overlap

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SikaProof Bentonite
Plastic DPM overlap - Compacted Backfill
 General Detail. Not to scale.

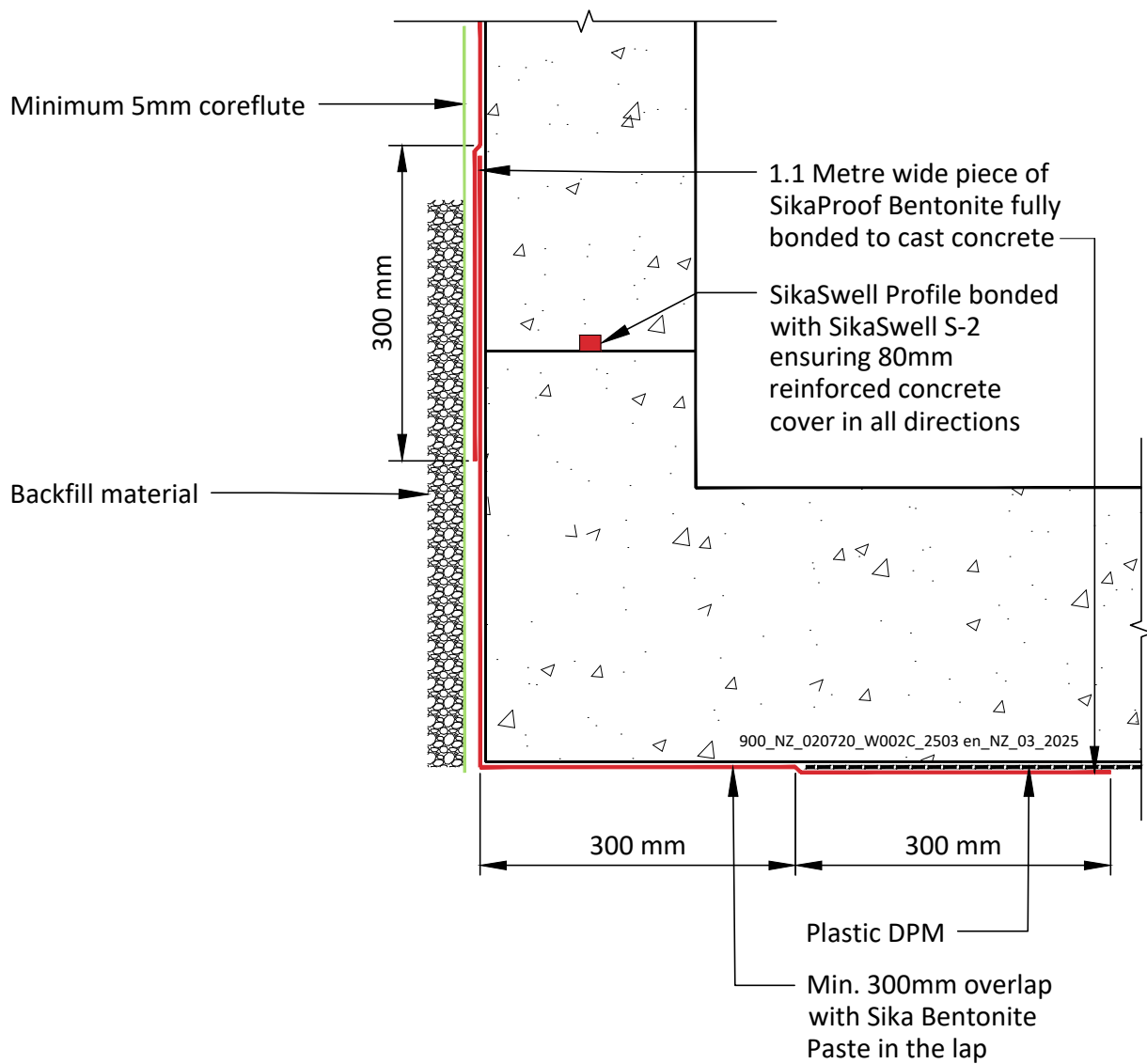
900_NZ_020720_W001C_2503 en_NZ_03_2025
 March 2025

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Sika (NZ) Ltd
 85-91 Patiki Rd, Avondale
 Auckland 1026
 New Zealand
 Tel: 0800 745 269
 www.sika.co.nz





SikaProof Bentonite
Plastic DPM overlap - Free Draining Backfill
 General Detail. Not to scale.

900_NZ_020720_W002C_2503 en_NZ_03_2025
 March 2025

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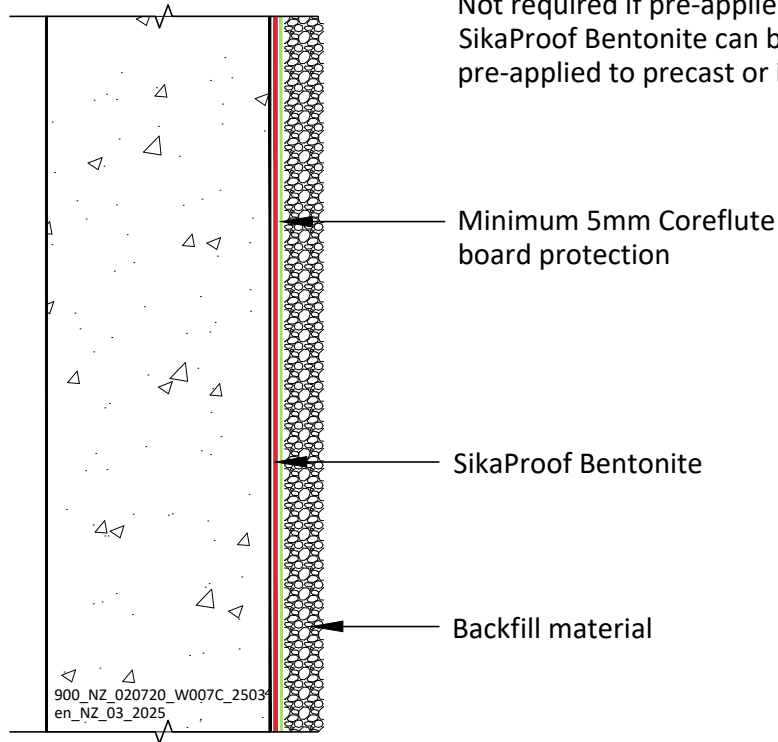
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Note:

Blowholes and minor imperfections shall be bagged with Sika MonoTop Fairing Coat or other appropriate mortar.

Not required if pre-applied to shutter.

SikaProof Bentonite can be post-applied or pre-applied to precast or insitu formwork



SikaProof Bentonite

Insitu or Precast, pre-applied or post-applied application to walls

General Detail. Not to scale.

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900_NZ_020720_W007C_2503 en_NZ_03_2025
March 2025

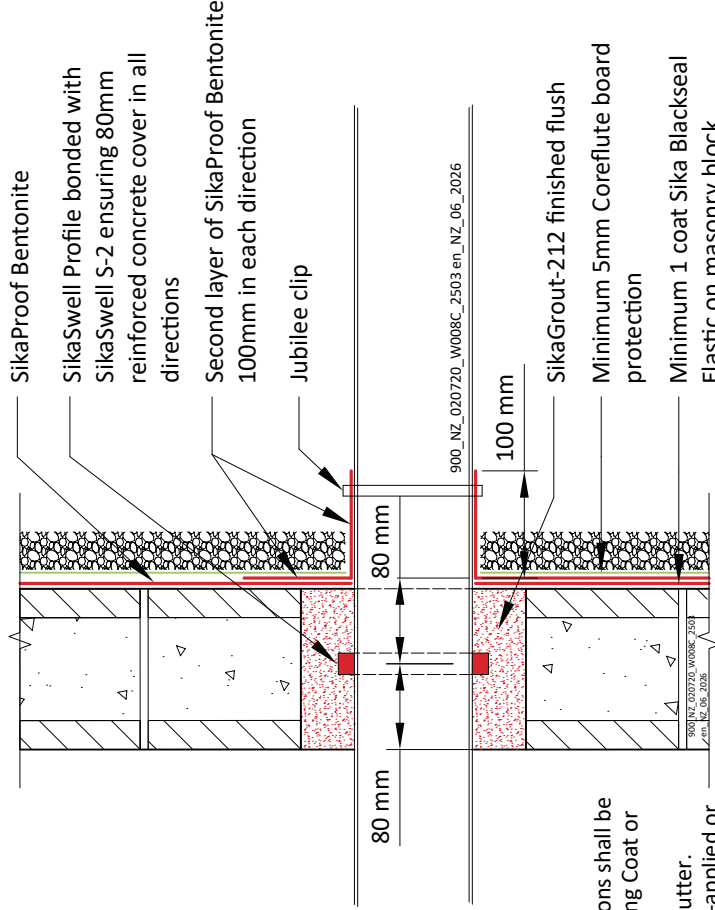
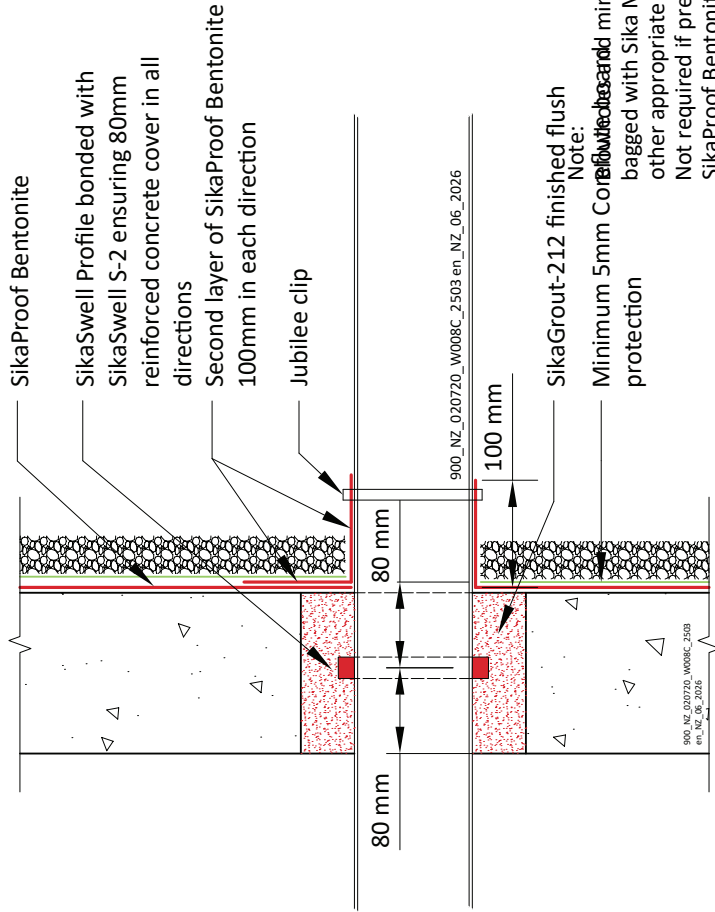
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85-91 Patiki Rd, Avondale
Auckland 1026
New Zealand
Tel: 0800 745 269
www.sika.co.nz



Insitu Concrete Boxed Out Pipe Penetration

Masonry Block Boxed Out Pipe Penetration

Note: All mortar joints to be finished flush.



Note: All mortar joints to be finished flush.

SikaGrout-212 finished flush

Minimum 5mm Coreflute board protection

Minimum 1 coat Sika Blackseal Elastic on masonry block

SikaProof Bentonite
 Insitu Concrete and Masonry Block Boxed Out Pipe Penetration
 General Detail. Not to scale.

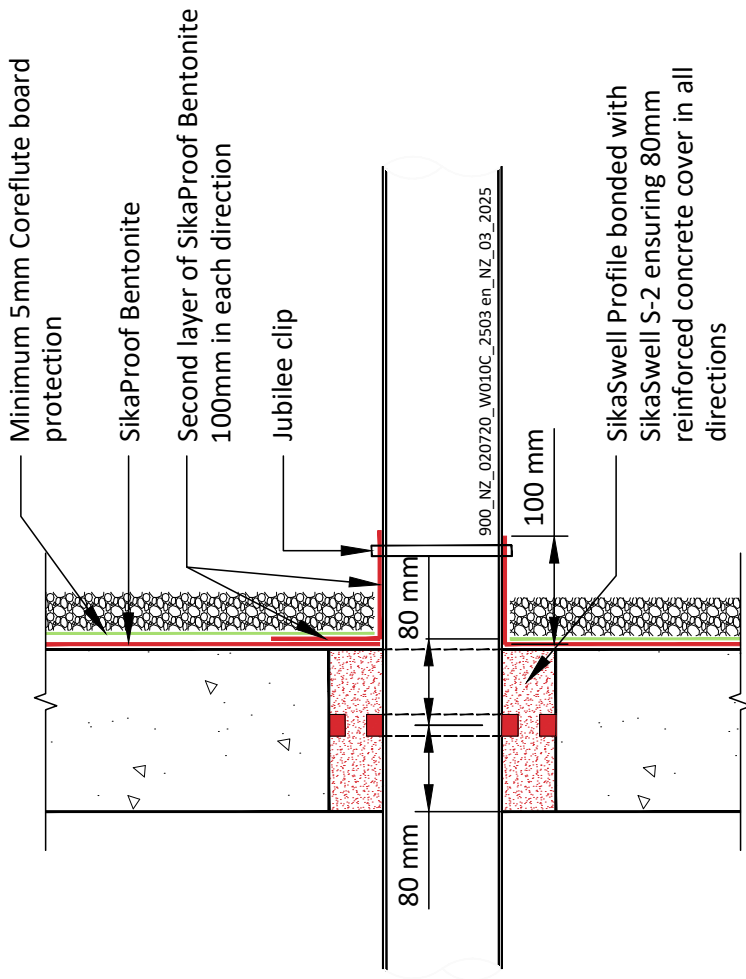
900_NZ_020720_W008C_2503 en_NZ_06_2026
 June 2026

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 Auckland 1026
 New Zealand
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SikaProof Bentonite
Cast In Pipe Penetration - Free Draining Backfill
 General Detail. Not to scale.

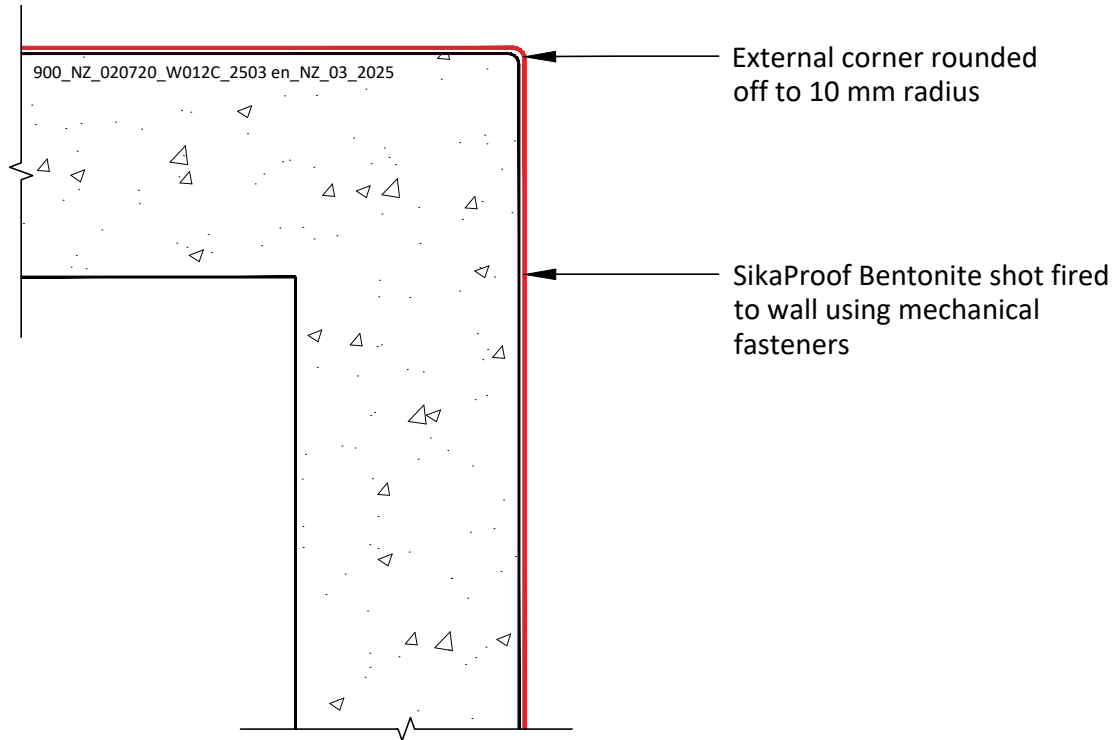
900_NZ_020720_W010C_2503 en_NZ_03_2025
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Note:
 Blowholes and minor imperfections shall be bagged with Sika MonoTop Fairing Coat or other appropriate mortar.



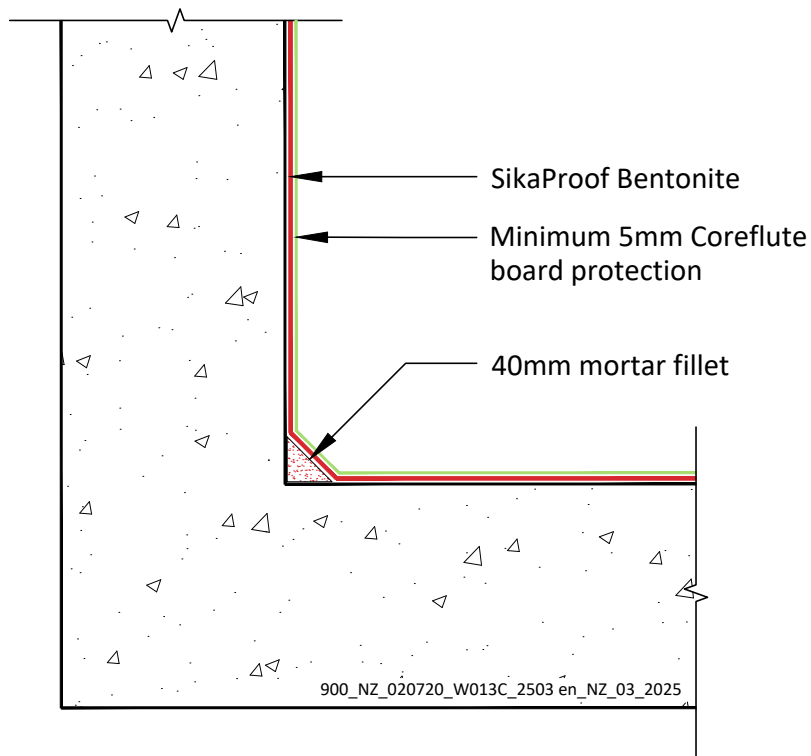
SikaProof Bentonite
Concrete Walls - External Corner - Post Fixed
 General Detail. Not to scale.

900_NZ_020720_W012C_2503 en_NZ_03_2025
 March 2025

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SikaProof Bentonite
Concrete Walls - Internal Corner - Post Fixed
 General Detail. Not to scale.

900_NZ_020720_W013C_2503 en_NZ_03_2025
 March 2025

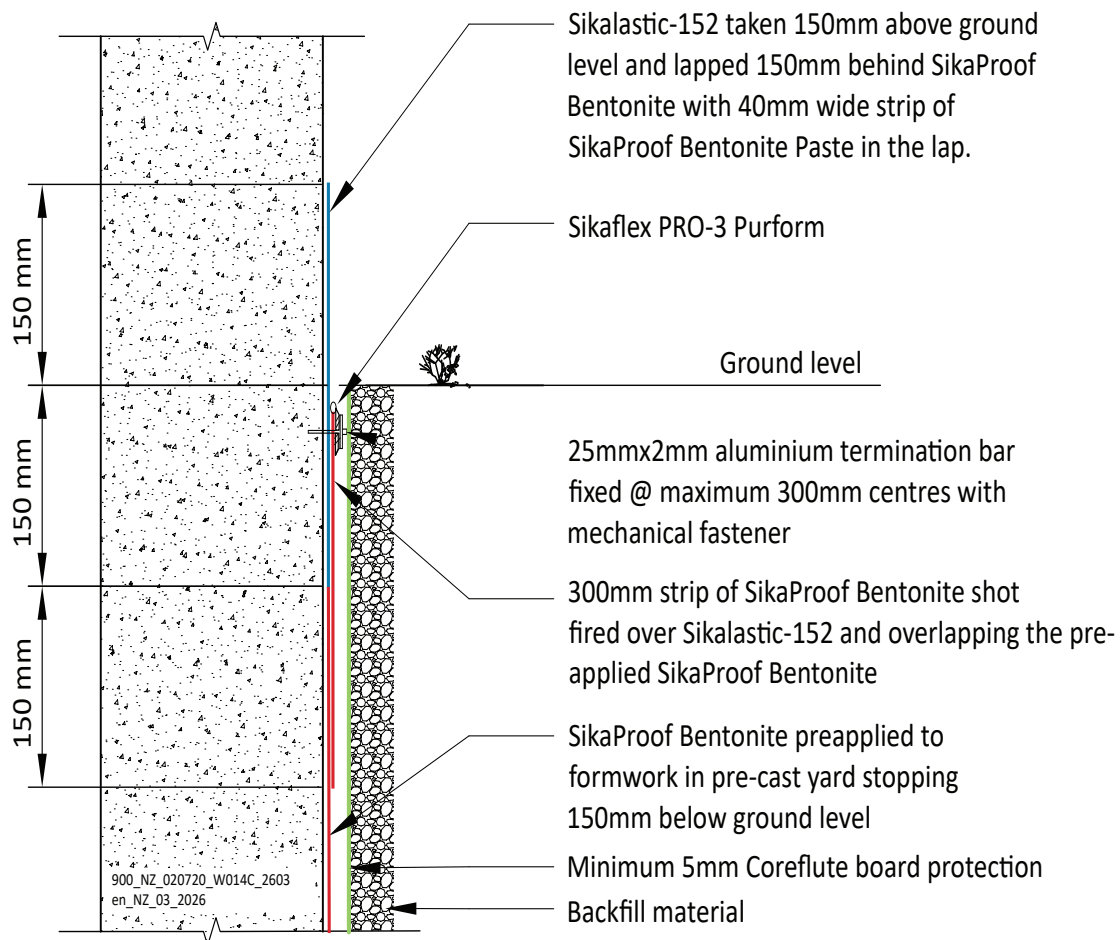
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SikaProof Bentonite

Pre-cast - Free Draining - Termination at Ground Level

General Detail. Not to scale.

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900_NZ_020720_W014C_2603 en_NZ_03_2026
March 2026

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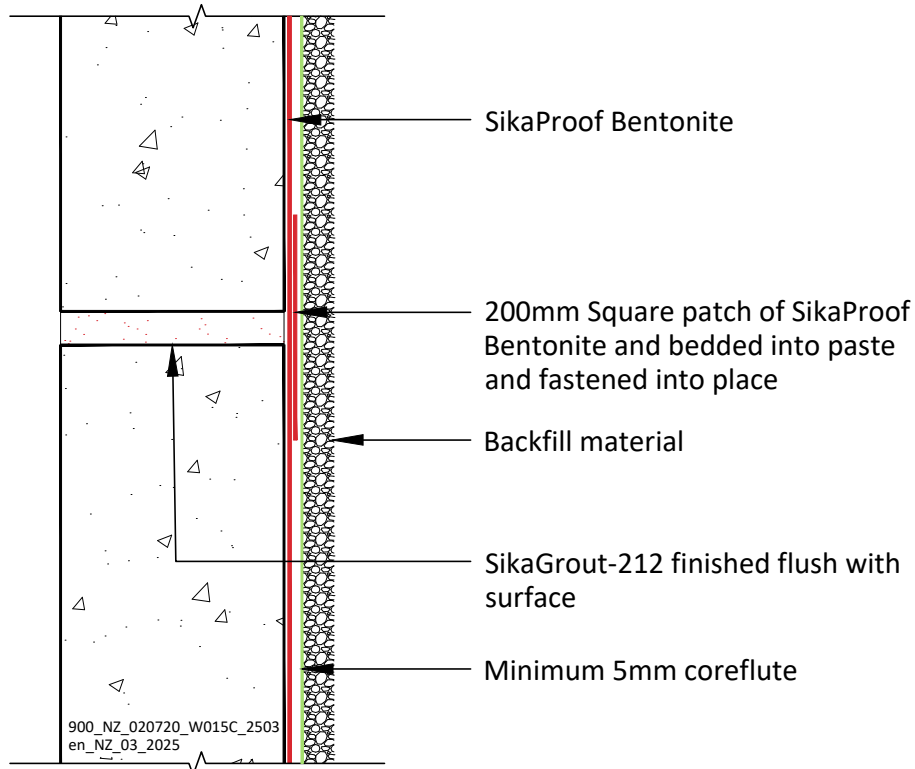
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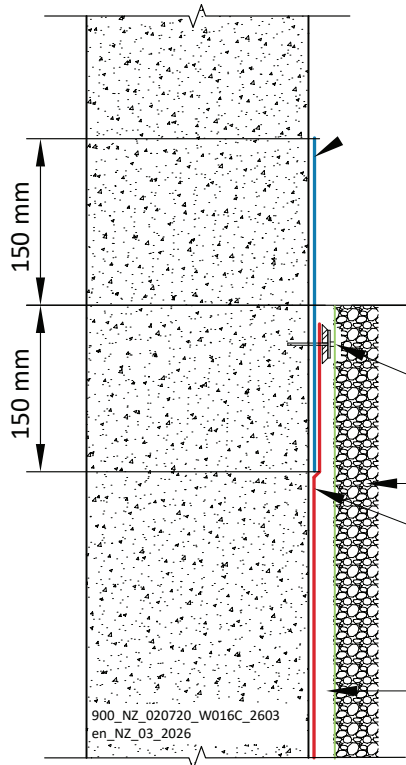
SikaProof Bentonite
Pre-applied to Concrete Walls – Tie Bolt Hole –
Compacted or Free Draining Backfill
 General Detail. Not to scale.

900_NZ_020720_W015C_2503 en_NZ_03_2025
 March 2025

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Note:
For post application, SikaProof
Bentonite should be yellow side out

Sikalastic-152 taken 150mm above
and below ground level

Sikaflex PRO-3 Purform

Ground level

25mmx2mm aluminium termination bar fixed @
maximum 300mm centres with mechanical fastener

Backfill material

SikaProof Bentonite shot fired to wall using
mechanical fasteners lapped 150mm over
Sikalastic-152 to ground level with 40mm wide
strip of SikaProof Bentonite paste in the lap.

Minimum 5mm Coreflute board protection

Blowholes and minor imperfections shall be bagged
with Sika MonoTop Fairing Coat or other
appropriate mortar.

SikaProof Bentonite
Precast Mechanically Fixed - Free Draining - Termination at Ground
Level
General Detail. Not to scale.

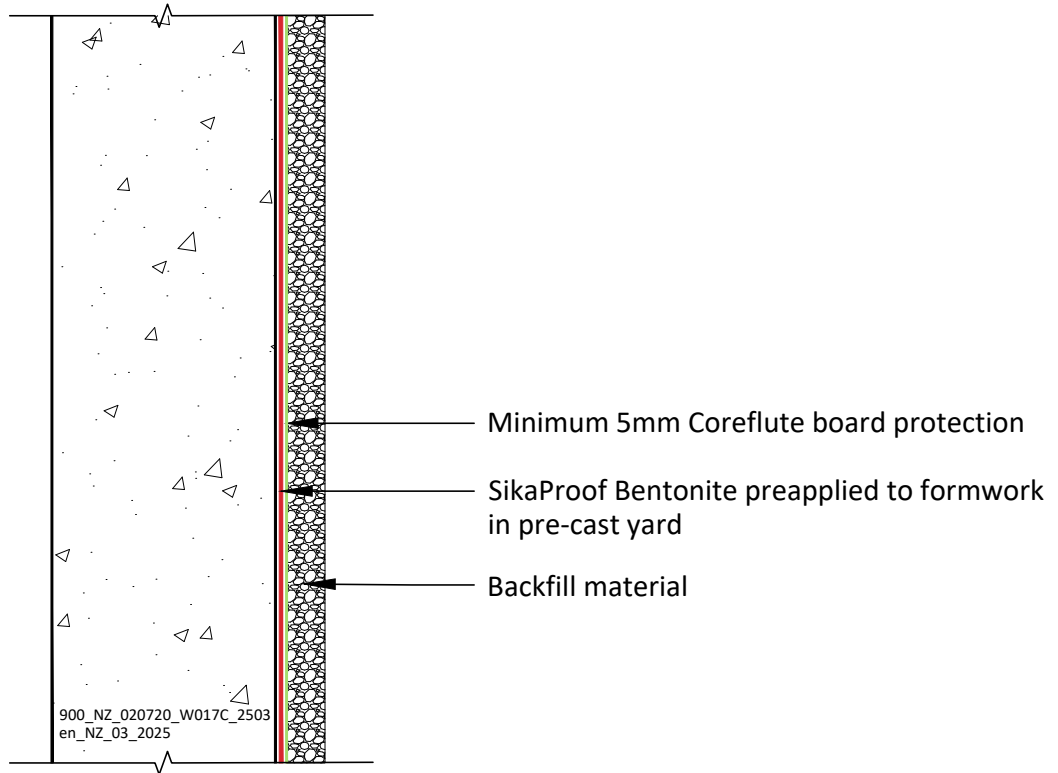
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Note:
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SikaProof Bentonite
Pre-cast - Free Draining Backfill - Application to Walls

General Detail. Not to scale.

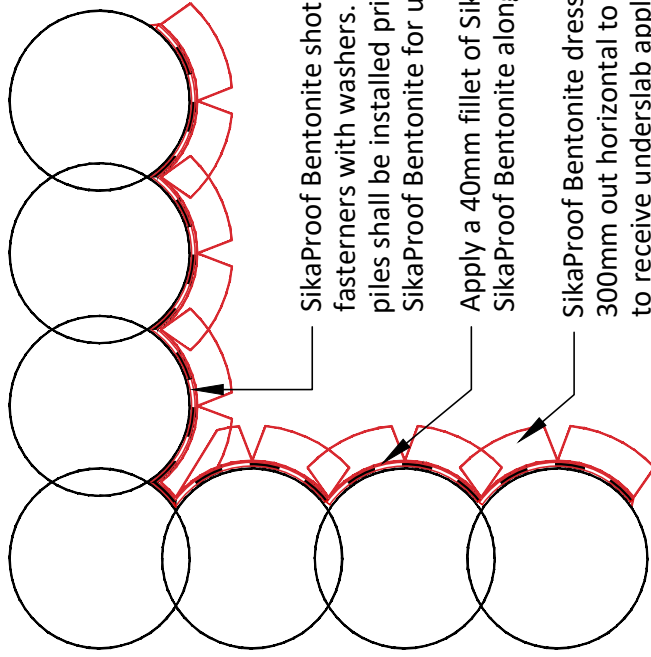
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Secant Piles



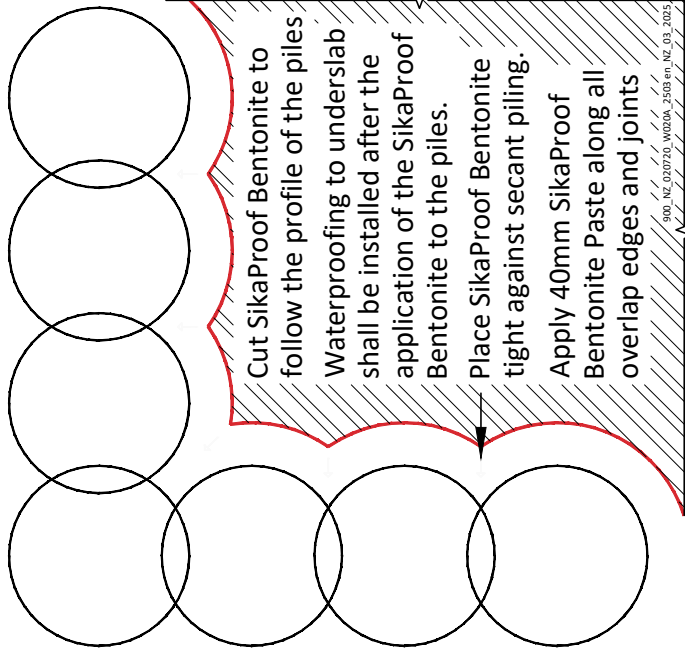
SikaProof Bentonite shot fired to wall using mechanical fasteners with washers. Waterproofing to secant piles shall be installed prior to the application of SikaProof Bentonite for underslab waterproofing.

Apply a 40mm fillet of SikaProof Bentonite Paste over SikaProof Bentonite along profile of the piles.

SikaProof Bentonite dressed around pile and taken 300mm out horizontal to piles to be cut and splayed to receive underslab application.

Step 1

Secant Piles



Cut SikaProof Bentonite to follow the profile of the piles
Waterproofing to underslab shall be installed after the application of the SikaProof Bentonite to the piles.

Place SikaProof Bentonite tight against secant piling.

Apply 40mm SikaProof Bentonite Paste along all overlap edges and joints

Step 2

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Tel: 0800 745 269
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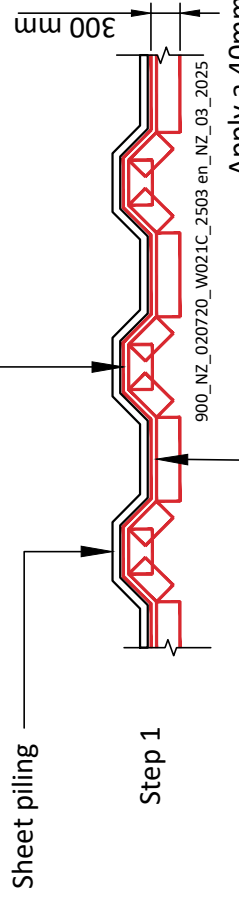
SikaProof Bentonite
Water Proof to Secant Piles - Step 1 and 2
General Detail. Not to scale.

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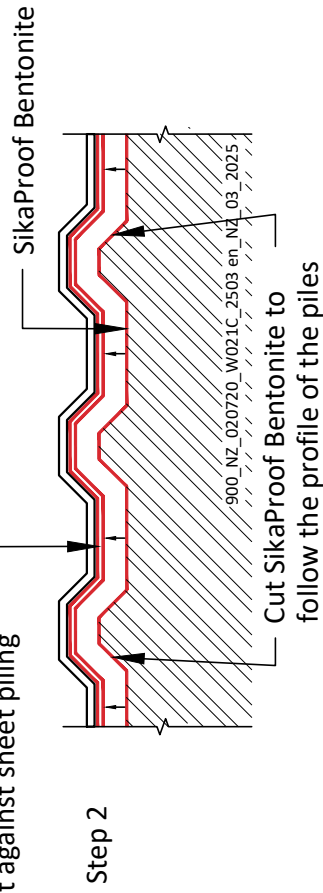
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SikaProof Bentonite shot fired to steel sheet piling using approved fixings and following the profile of the piles.

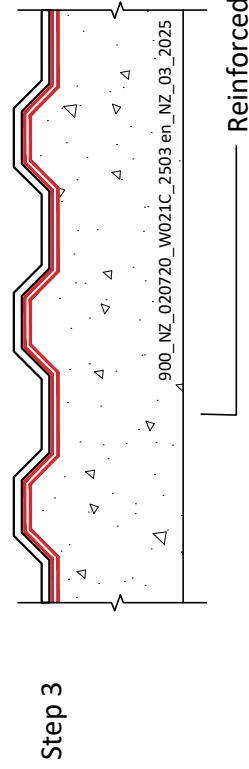


Apply a 40mm fillet of SikaProof Bentonite Paste over 300mm cut and sprayed SikaProof Bentonite along the profile of the piles

Place SikaProof Bentonite tight against sheet piling



Waterproofing to underslab shall be installed after the application of the SikaProof Bentonite to the piles



SikaProof Bentonite
Water Proof to Steel Sheet Piling
General Detail. Not to scale.

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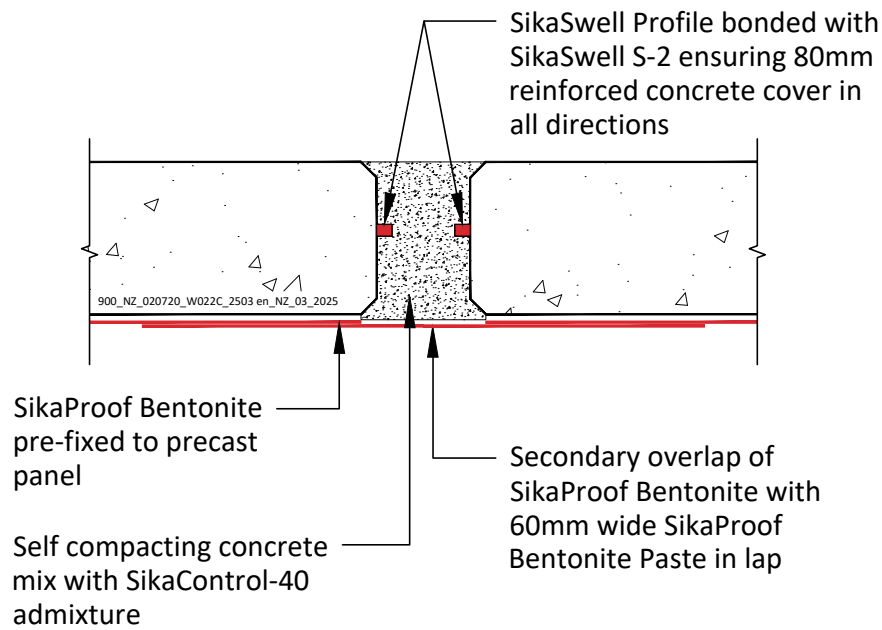
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Note:
Blowholes and imperfections shall be bagged with Sika MonoTop Faining Coat or other appropriate cement based mortar.



SikaProof Bentonite
Pre-cast Stitch Joint Detail - Easy Access
General Detail. Not to scale.

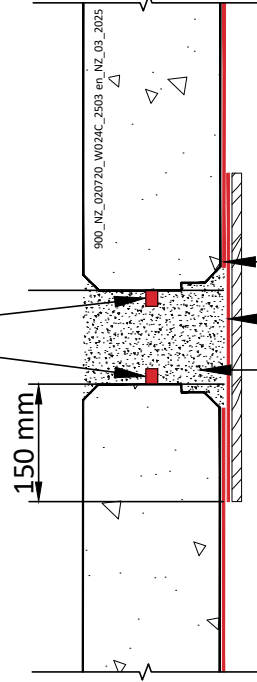
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Auckland 1026
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SikaSwell Profile bonded with SikaSwell S-2 ensuring 80mm reinforced concrete cover in all directions



SikaGrout-212

SikaProof Bentonite bonded in pre-cast beds to panel

SikaProof Bentonite pre-fixed to marine plywood strip taken 150mm past joint edge either side with 150mm SikaProof Bentonite Paste in both laps.

SikaProof Bentonite

Pre-cast Stitch Joint Detail for Limited Access Installation 2

General Detail. Not to scale.

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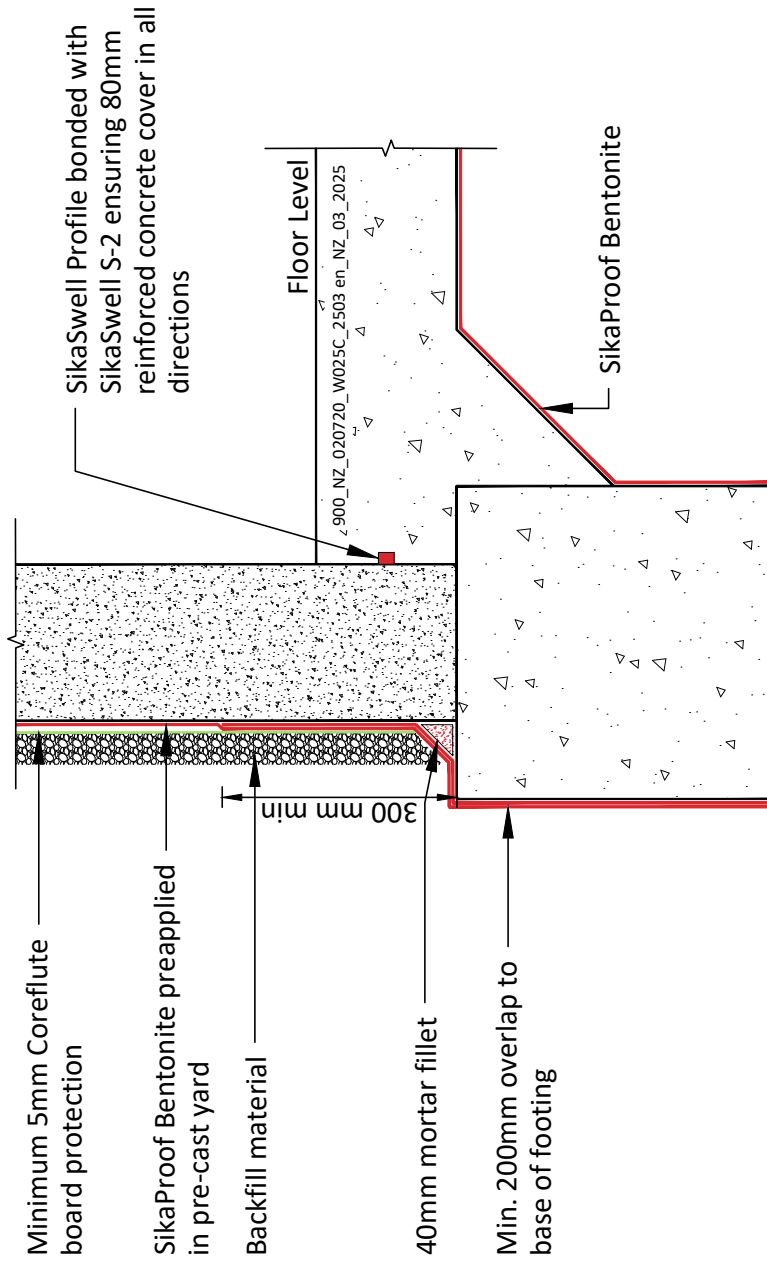
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Auckland 1026
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SikaProof Bentonite
Pre-cast Panel / Footing Junction
 General Detail. Not to scale.

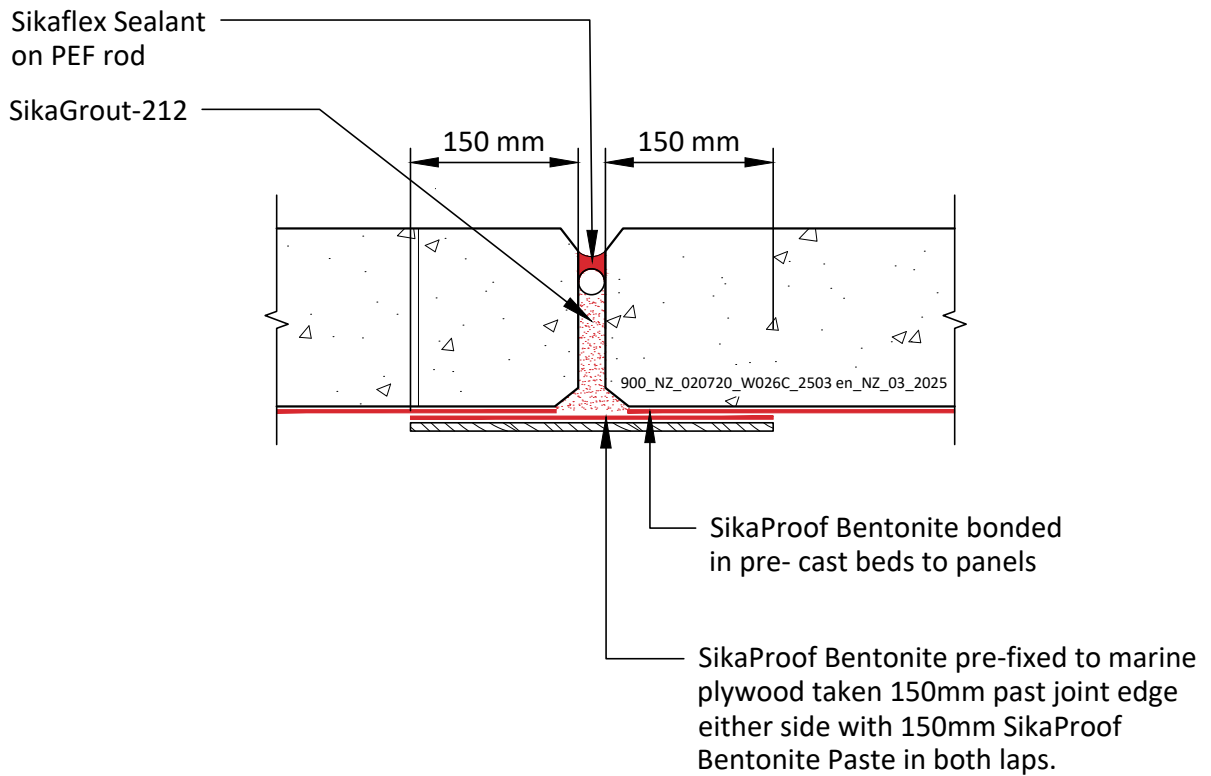
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SikaProof Bentonite
Pre-cast Panel sealant joint Detail for limited
access installation

General Detail. Not to scale.

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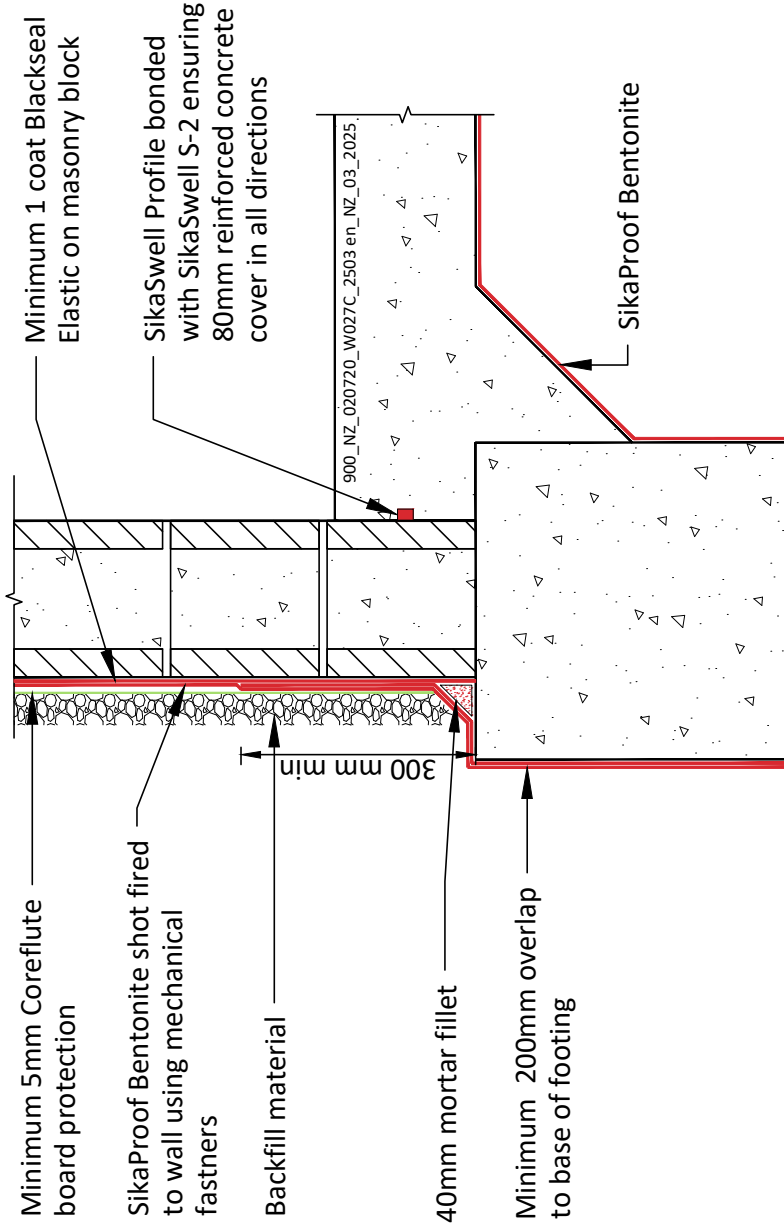
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Note:

All mortar joints to be finished flush.
All external corners with membrane applied should be 10mm radius.



Minimum 1 coat Blackseal Elastic on masonry block

SikaSwell Profile bonded with SikaSwell S-2 ensuring 80mm reinforced concrete cover in all directions

**SikaProof Bentonite
Masonry / Footing Junction**
General Detail. Not to scale.

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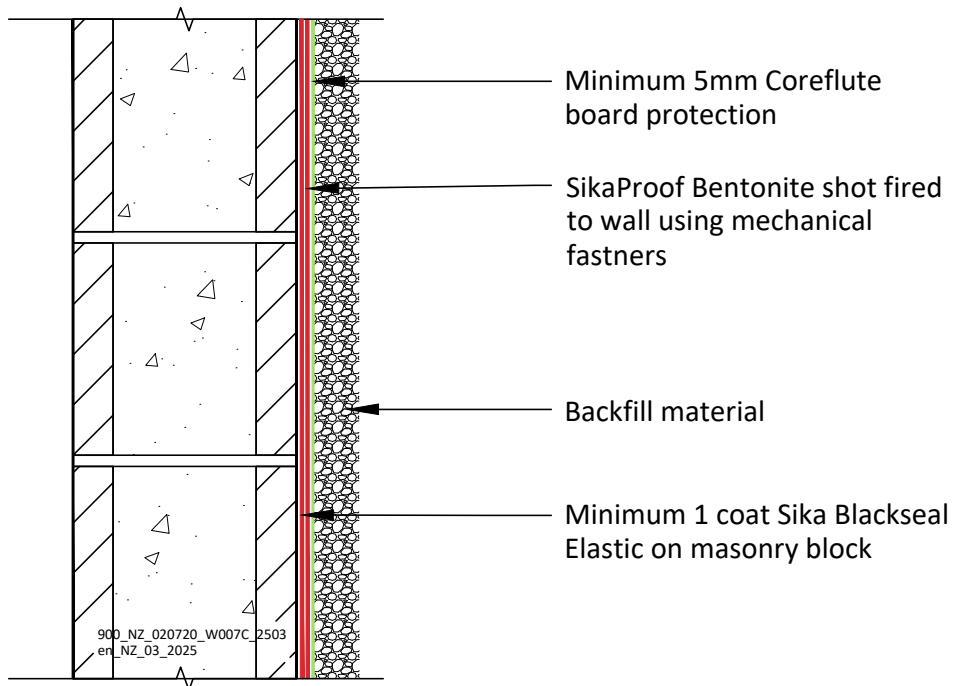
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Note:
 Blowholes and imperfections shall be bagged with Sika MonoTop Faining Coat or other appropriate cement based mortar. All mortar joints to be finished flush.



SikaProof Bentonite
 Masonry block application to walls
 General Detail. Not to scale.

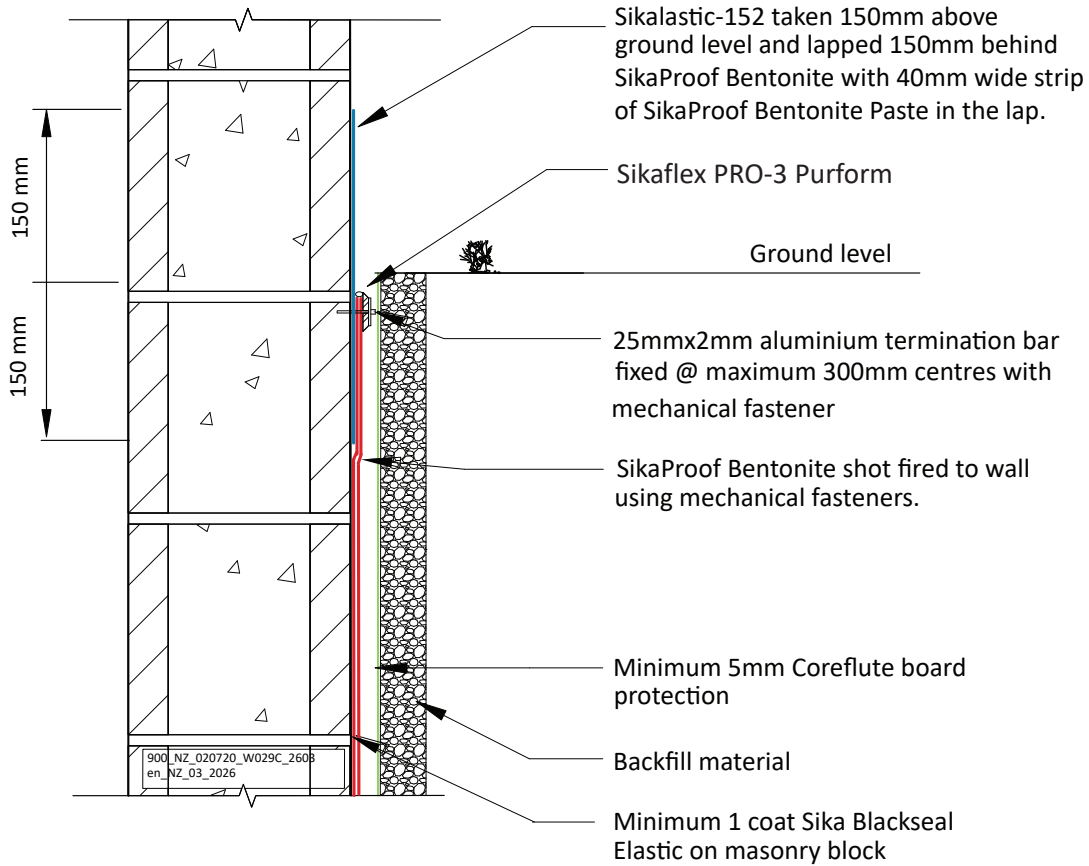
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Note:
Blowholes and minor imperfections shall be bagged with Sika MonoTop Fairing Coat or other appropriate mortar. All mortar joints to be finished flush.



SikaProof Bentonite
Masonry block application to walls

General Detail. Not to scale.

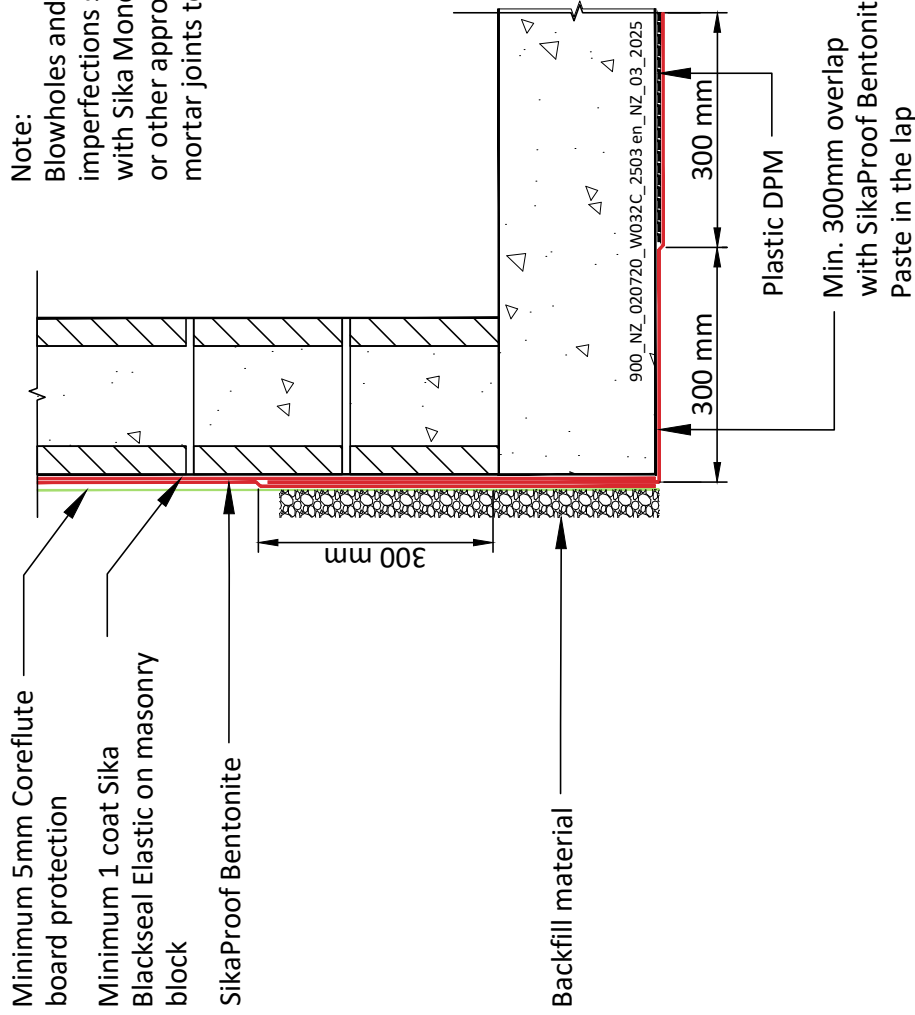
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Note:
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SikaProof Bentonite
Masonry Block Plastic DPM Overlap
General Detail. Not to scale.

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