WATERPROOFING CAD DETAILS
TYPICAL WATERPROOFING CONNECTIONS

BELOW GROUND WATERPROOFING TO BS:8012/2009
These are the most common areas where waterproofing can fail. To reduce the risks significantly:

1) Waterproofing should be fully bonded and continuous.
2) Compatibility is crucial. Quality is crucial.
3) Get expert input early - Sika has over 100 years of global waterproofing expertise on tap.
Typical Waterproofing Connection Details

1. Apply a 300mm wide strip of SikaProof A Tape to the vertical corner.
2. Take Sika Car Park Deck System and adhere to selvedge of SikaProof A edge sheet.
3. Horizontal Concrete: 100mm wide strip of BlackSeal Elastic / DPM.
4. Take the Sika Car Park Deck System and adhere to selvedge of SikaProof A edge sheet.
5. Horizontal Concrete: 100mm wide strip of BlackSeal Elastic / DPM.
The most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Technical Service prior to using Sika products. The information contained herein does not relieve the user of the responsibility to ensure that the application is correct for the intended use and purpose. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the Product Data Sheet applicable to the application(s) and product(s) expressly referred to herein and is based on laboratory tests which do not replace practical tests. In case of changes in the parameters of the application, such as changes in substrates etc., or in case of a different application, consult Sika’s Technical Service.

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Membrane to be extended to the edge of the slab at the floor/wall intersection.

Liquid applied or sheet roof waterproofing membrane cavity compatible with balcony design.

Roof screed to fall to roof level.

100mm 200mm cover strip of Sarnafil G410-20L Felt with Sarnacol 808. Sarnafil G410-20L Felt loose laid and welded 40mm at sides and ends from top of slab.

Termination bar Type II.

If Sarnafil is pre-applied, measure up 100mm from top of slab.

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SikaProof Bentonite overlapping Sarnafil G410-20L. SikaProof Bentonite terminated at ground level.

SikaProof Bentonite overlapping Full application of Sikanet MTC 22.

1. Apply SikaProof Bentonite
2. Apply Sikanet MTC

If Bentonite is pre-applied, measure up 100mm from top of slab.

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Protect outside with coreflute before backfilling.

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Sill tray cavity compatible with balcony design.

Air seal backed by a PEF rod to perimeter of trim cavity.

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Drip edge formed from plaster below window frame.

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Sill tray & packers.

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Window frame fixed to blockwork, max. 12mm gap between deck and sill is required for door opening. Alternatively, a sill tray & packers below window frame.

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Sarnafil G410-20L heat welded onto balcony deck waterproofing and door threshold joint sealing for concrete decks over non-habitable space.
1. Apply a 300mm wide strip of Sikafloor-400 N Elastic
2. Take Sika Carpark Deck System 150mm onto Sikafloor-400 N Elastic
3. Terminate SikaProof P 150mm onto Sikafloor-400 N Elastic
Apply a 300mm wide strip of Sikafloor-400 N Elastic to the vertical concrete

Terminate SikaProof Bentonite onto the Sikafloor-400 N Elastic 150mm

Take the Sika Car Park Deck down 150mm onto the preapplied Sikafloor-400 N Elastic

Sika Car Park Deck
SikaProof Bentonite

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May 2018
Typical Overlap Detail
SikaProof A / DPM

If DPM exists, cut back to a straight edge

Likely to require site concrete to support this junction

SikaProof A lapped underneath dpm bonded to selvedge

SikaProof A-12

300 mm
Typical Overlap Detail

SikaProof A/SikaRoof MTC

SikaRoof MTC

150mm wide strip of SikaProof P

SikaProof A
Sika BlackSeal Elastic / DPM

Sika Blackseal Protection Sheet or 50mm thick EPS fixed into position with tape

Minimum 2 coats of Sika Blackseal Elastic applied to primed substrate

Note:
Trim this leg of SikaProof A edge sheet to suit

200mm wide Sika Deckweb Mesh

SikaProof A tape 150

150 mm

500 mm

Note:
Wall must be flush with slab. If this cannot be achieved then any misalignment must be made flush.

100 mm

100mm overlap, adhered to selvedge of SikaProof A edge sheet

100mm perforated drainage pipe wrapped in geotextile filter fabric - check engineers detail

Note:
Highly porous blocks and uneven masonry walls shall be bagged with Sika MonoTop Fairing Coat or other appropriate cement based mortar.

BlackSeal Elastic / DPM

May 2018

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www.sika.co.nz

Note:
50mm site concrete

DPM

SikaProof A edge sheet

100 mm

Note:
Wall must be flush with slab. If this cannot be achieved then any misalignment must be made flush.
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**Typical Waterproofing Connection Details**

- Precast concrete panel
- Granular free drainage backfill
- Minimum 2 coats of Sika BlackSeal Elastic applied to primed substrate
- Sika BlackSeal Protection Sheet or 50mm thick EPS fixed into position with tape
- SikaProof A Tape 150
- 100mm perforated drainage pipe wrapped in geotextile filter fabric - refer engineers detail

**Product Details**

- Sika BlackSeal Elastic / SikaProof A edge sheet
- Sika Grout-212
- SikaSwell-P Profile 2010 H
- DPM
- 100mm overlap adhered to selvedge of SikaProof A edge sheet
- 100mm overlapped to SikaSwell-P Profile 2010 H
- 150 mm
Sika BlackSeal Protection Sheet or 50mm thick EPS fixed into position with tape
Minimum 2 coats of Sika BlackSeal Elastic applied to primed substrate
Sand/cement/BlackSeal Elastic mortar
25mm angle fillet
100mm perforated drainage pipe wrapped in geotextile filter fabric - refer engineers detail

Note:
Highly porous blocks and uneven masonry walls shall be bagged with Sika MonoTop Fairing Coat or other appropriate cement based mortar.

BlackSeal Elastic / SikaProof A

SECTION

DPM

150 mm

min.

500 mm

Sika BlackSeal Elastic applied fully onto SikaProof A Tape 150
SikaProof A edge sheet

50mm site concrete

200 mm

min.
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SikaProof Bentonite/Sikalastic -152

4mm Sikalastic-152 taken 150mm above ground level and lapped 150mm behind SikaProof Bentonite with 40mm wide strip of SikaProof Bentonite paste in the lap.

25mmx2mm aluminum termination bar fixed at max. 300mm centres with mechanical fastener.

SikaProof Bentonite preapplied to formwork in pre-cast yard.

Minimum 6mm Coreflute board protection.

Granular free drainage backfill.

SECTION
**Typical Waterproofing Connection Details**

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**Note:**

Protect outside with coreflute before backfilling.
Laps to be glued.

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- **Bentonite trimmed 100mm from top of slab**
- **Termination bar Type II**
- **Fully bond vertical section of Sarnafil G410-20L Felt with Sarnacol 808**
- **Sarnafl G410-20L Felt loose laid**
- **Sarnafl U-bar 100mm from concrete edge to allow room for tile pedestal**
- **200mm cover strip of Sarnafl G410-20L welded 40mm at sides and ends**
- **Lap Sarnafl 300mm min. past top edge of Bentonite**
- **Hot air weld**

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**SikaProof Bentonite / Sarnafl**

May 2018

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Second application of SikaRoof-MTC 22 reinforced with Sika Reemat and taken 150mm onto the SikaProof Bentonite

SikaProof Bentonite terminated at ground level

SikaProof Bentonite overlapping first application of SikaRoof-MTC 22 by 150mm

1. Apply SikaRoof MTC
2. Apply SikaProof Bentonite
3. Apply SikaRoof MTC

If Bentonite is pre-applied, ensure top 150mm is left debonded.

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SikaRoof MTC/SikaProof Bentonite

Second application of SikaRoof-MTC 22 reinforced with Sika Reemat and taken 150mm onto the SikaProof Bentonite

SikaProof Bentonite terminated at ground level

SikaProof Bentonite overlapping first application of SikaRoof-MTC 22 by 150mm

1. Apply SikaRoof MTC
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3. Apply SikaRoof MTC

If Bentonite is pre-applied, ensure top 150mm is left debonded.
**SikaProof A onto Sarnafil G410 & S327**

1. Sarnafil G410-10L heat welded onto Dilatec ER350 Tape
2. Dilatec ER350 tape adhered onto SikaProof A with Sikadur-31
3. SikaProof A

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May 2018
Sika balcony deck waterproofing & door threshold joint sealing for concrete decks over habitable space

Aug 2014  Sika (NZ) Ltd
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www.sika.co.nz

Roof membrane extends below window frame
Timber threshold board
Sikaflex / SikaHyflex facade sealant air seal backed by a PEF rod to perimeter of trim cavity compatible with balcony waterproofing membrane
Packers
Sill tray
Sill tray & packers
Roof membrane fixed below window frame
Timber threshold board
Sill to provide minimum 10mm overhang, with 5mm drainage clearance (vertically & horizontally)
Linear drainage grille along length of door opening. Alternatively, a 12mm gap between deck and sill is required
Liquid applied or sheet roof membrane to be extended onto slab beneath door sill
Tile decking on deck jacks on square of Sarnafil G410-20L FELT
Roof screed to fall to roof gullies, fall 1.5 degrees (min.)

**Typical Waterproofing Connection Details**

- **Sika balcony deck waterproofing**
- **and door threshold joint sealing for concrete decks over habitable space**

**Scale 1:5**

- **45 Deg. chamfer to screed**
- **Roof membrane extends below window frame**
- **Timber threshold board**
- **Sikaflex / SikaHyflex facade sealant air seal backed by a PEF rod to perimeter of trim cavity compatible with balcony waterproofing membrane**
- **Packers**
- **Sill tray**
- **Sill tray & packers**
- **Roof membrane fixed below window frame**
- **Timber threshold board**
- **Sill to provide minimum 10mm overhang, with 5mm drainage clearance (vertically & horizontally)**
- **Linear drainage grille along length of door opening. Alternatively, a 12mm gap between deck and sill is required**
- **Liquid applied or sheet roof membrane to be extended onto slab beneath door sill**
- **Tile decking on deck jacks on square of Sarnafil G410-20L FELT**
- **Roof screed to fall to roof gullies, fall 1.5 degrees (min.)**

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Sika Screed 1 or Sikascreed binder
Roof membrane SikaRoof MTC 22 or Sarnafil G410-20L FELT fully bonded

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**SikaRoof MTC/SikaProof Bentonite**

- **Second application of SikaRoof-MTC 22 reinforced with Sika Reemat and taken 150mm onto the SikaProof Bentonite**
- **SikaProof Bentonite terminated at ground level**
- **SikaProof Bentonite overlapping first application of SikaRoof-MTC 22 by 150mm**

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1. **Apply SikaRoof MTC**
2. **Apply SikaProof Bentonite**
3. **Apply SikaRoof MTC**

If Bentonite is pre-applied, ensure top 150mm is left debonded.
**Sika balcony deck waterproofing & door threshold joint sealing for concrete decks over habitable space**

1. Apply SikaRoof MTC
2. Apply SikaProof Bentonite
3. Apply SikaRoof MTC

If Bentonite is pre-applied, ensure top 150mm is left debonded.

**Continuous head and jamb seal**

Sikaflex / SikaHyflex facade sealant backed by a PEF rod

**Plaster or coating finish**

Drip edge formed from plaster or pvc angle

Sikalastic - 152 waterproof coating or membrane continuous at head and jambs

Window frame fixed to blockwork, and packed as required

Sikalastic - 152 beneath window / door to run along the entire sill and down the external face of the sill and min. 40mm up the jambs

Sill profile to provide min. 10mm overhang, with 5mm drainage clearance (vertical and horizontal)

Weathertightness system

**Sikaflex / SikaHyflex facade sealant air seal backed by a PEF rod to perimeter of trim cavity**

**Sika concrete masonry reveal waterproofing and window joint sealing detail**

Scale 1:5

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May 2018

SikaRoof MTC/SikaProof Bentonite
Sika balcony deck waterproofing & door threshold joint sealing for concrete decks over non-habitable space

1. Apply SikaRoof MTC
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WHO WE ARE
Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar and wind power plants, façades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika’s product lines feature high quality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.