IKO permatec®

Hot Melt Waterproofing System

Standard Detail Drawings

IKO Setting the Standard

Issue 6 – September 2017

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IKO permatec
Hot Melt Waterproofing System

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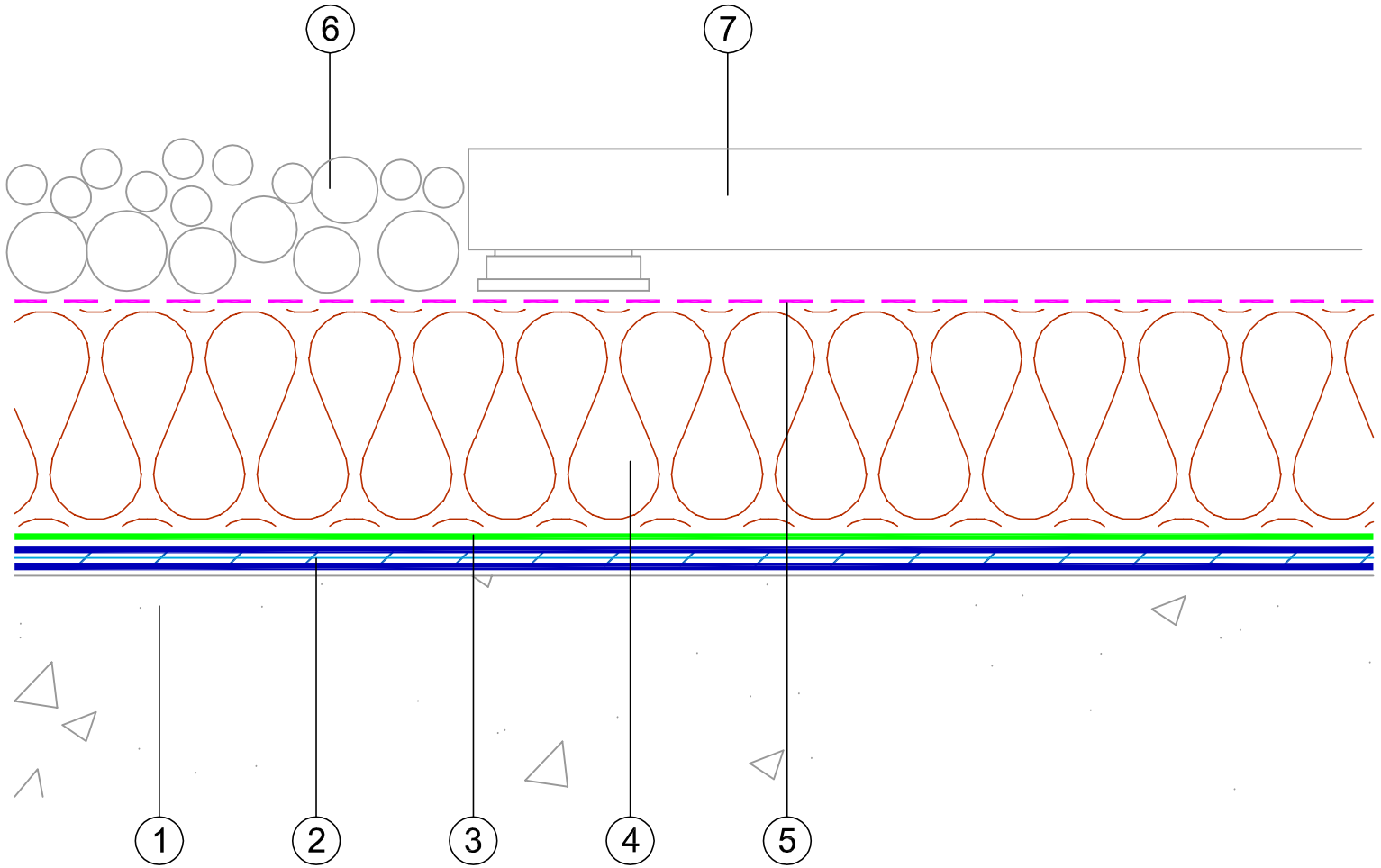
Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board.
5. IKO enertherm WCL (Water Control Layer)
6. Minimum 50mm layer of 16-32mm rounded washed aggregate
7. Minimum 50mm thick paving slabs on proprieatart supports



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys. A minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:
TYPICAL INVERTED DECK

Date:	Scale:
August 2017	NTS

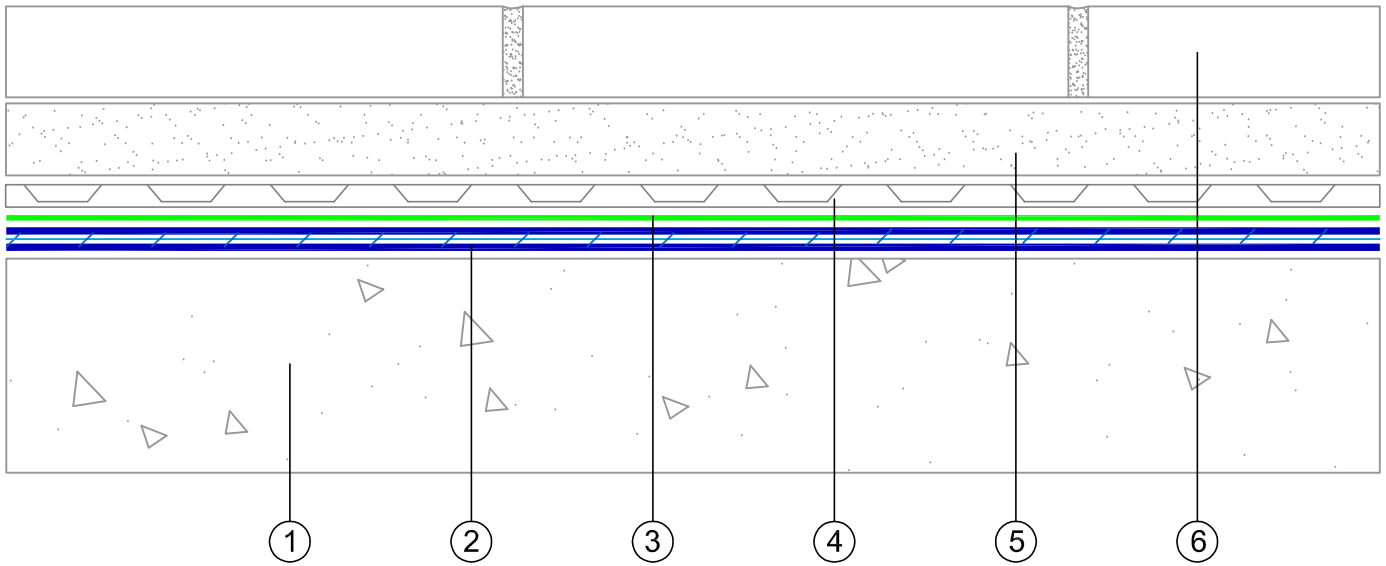
Drawn by:	Revision:	Sheet No:
ME		PT.1A

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
4. IKO Plasdrain drainage layer (as specification)
5. Sand/cement sub-base (specified & designed by others)
6. Block paviours/concrete slabs (specified & designed by others)

To avoid surface ponding falls of at least 1 in 80 should be provided in either:

a. The deck
b. Bedding screed for the final finsh.



Notes

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Drawing Title:

TYPICAL UNINSULATED PODIUM DECK

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1B

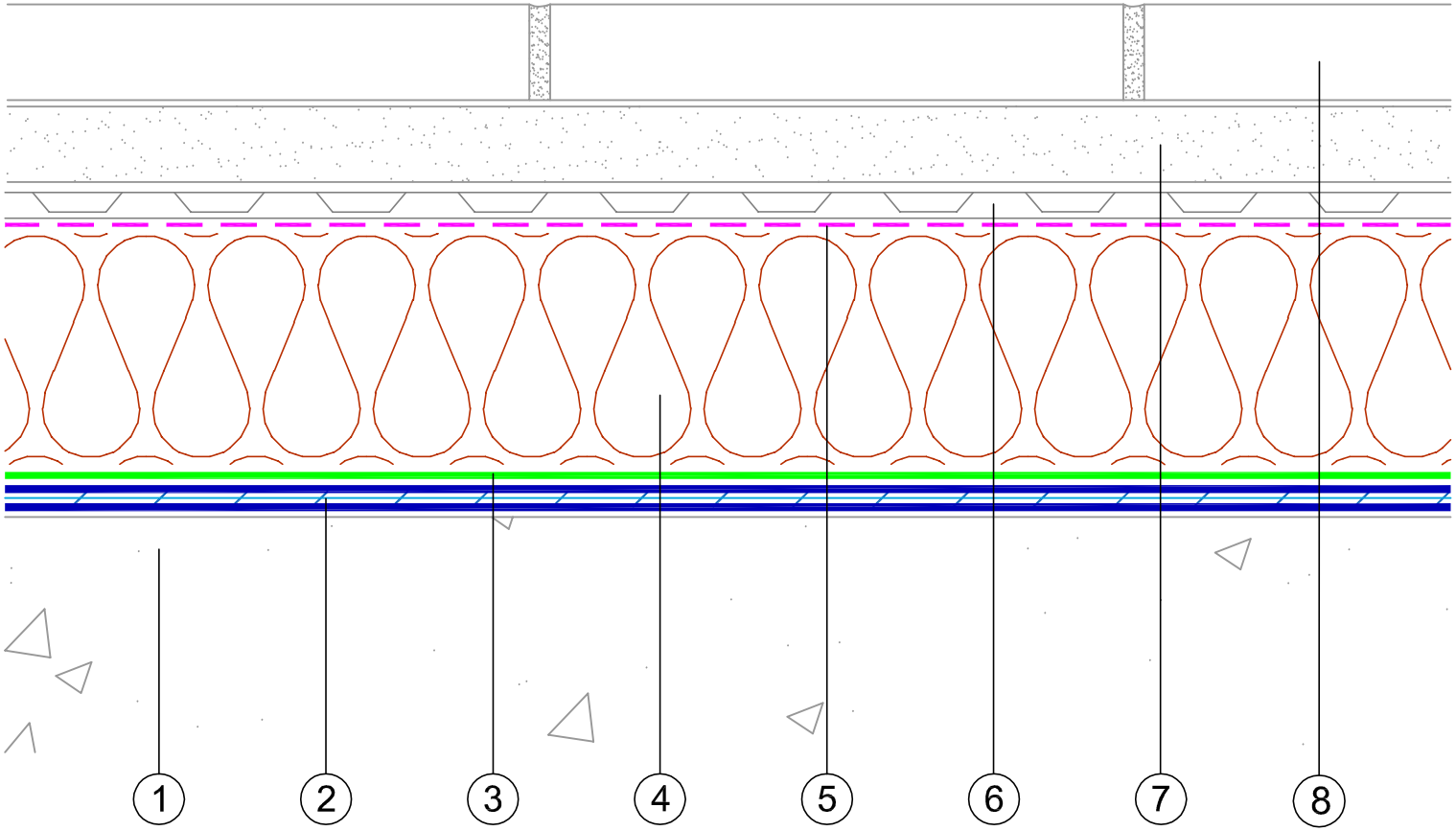
Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board.
5. IKO enertherm WCL (Water Control Layer)
6. IKO Plasdrain drainage layer (as specification)
7. Sand/cement sub-base (specified & designed by others)
8. Block paviours/concrete slabs (specified & designed by others)

To avoid surface ponding falls of at least 1 in 80 should be provided in either:

a. The deck

b. Bedding screed for the final finsh.



Notes

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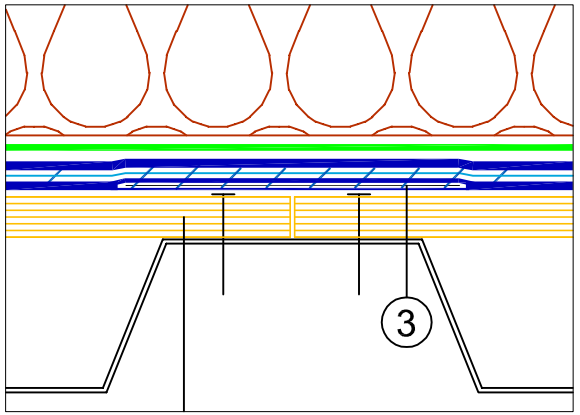
Drawing Title:
TYPICAL INSULATED PODIUM DECK

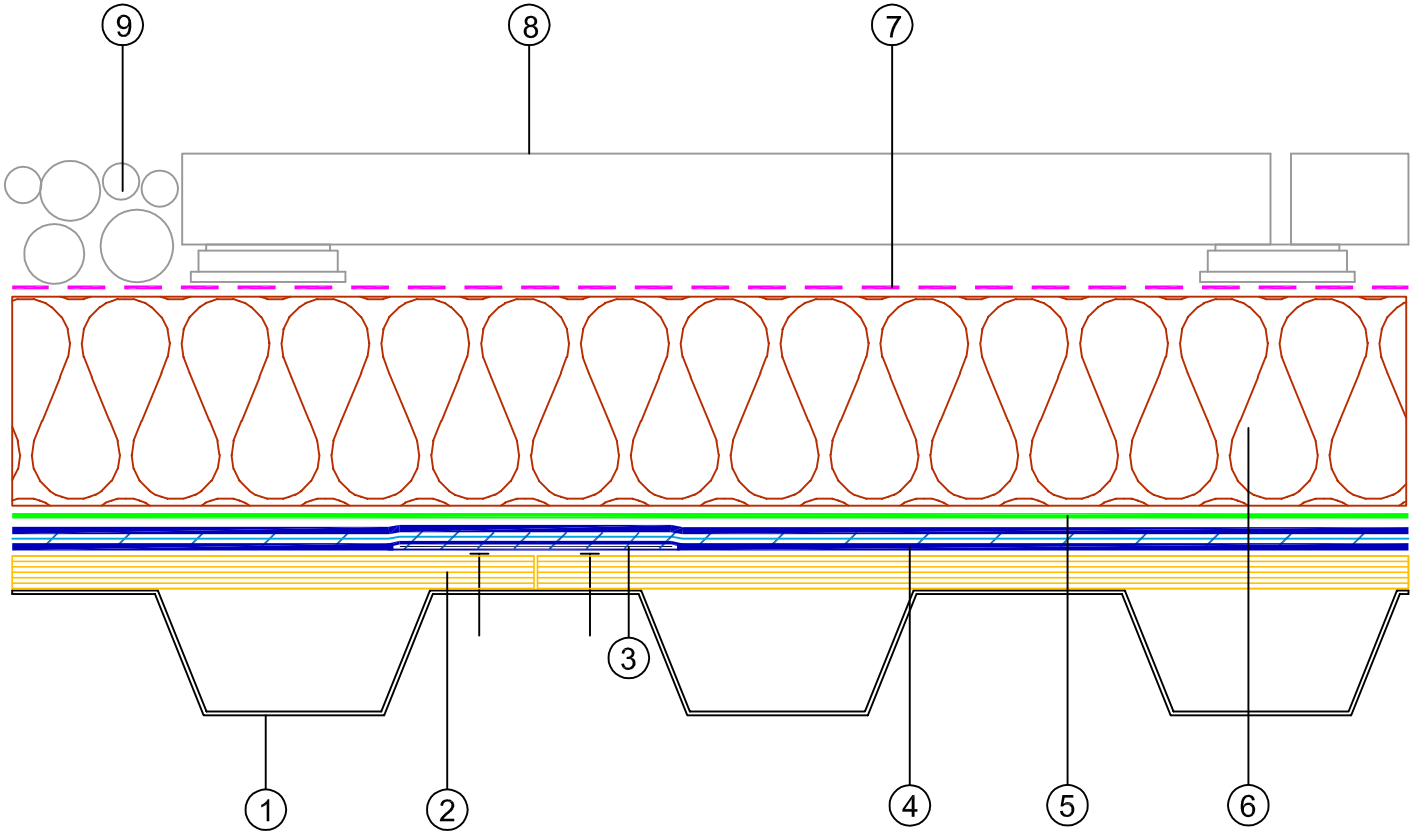
Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1B(A)

Section Key

1. Structural metal deck
2. 18mm Plywood or moisture resistant Cement Bonded Particle Board mechanically fixed to metal deck
3. PermaFLASH-D150 bonded in PermaTEC ECOWRAP
4. 2 layers of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
5. PermaGUARD-F protection layer
6. IKO enertherm XPS/EPS Inverted roof insulation board
7. IKO enertherm WCL (Water Control Layer)
8. Minimum 50mm thick paving slabs on proprietary supports
9. Minimum layer of 16-32mm rounded washed aggregate





Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys.
A minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

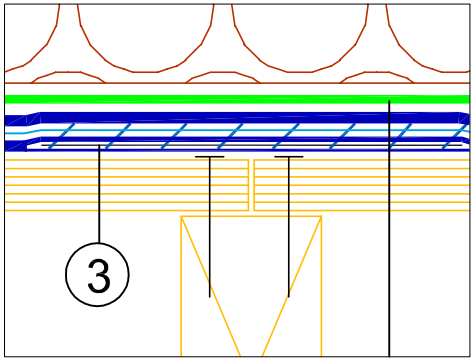
TYPICAL INVERTED ROOF ASSEMBLY METAL DECK

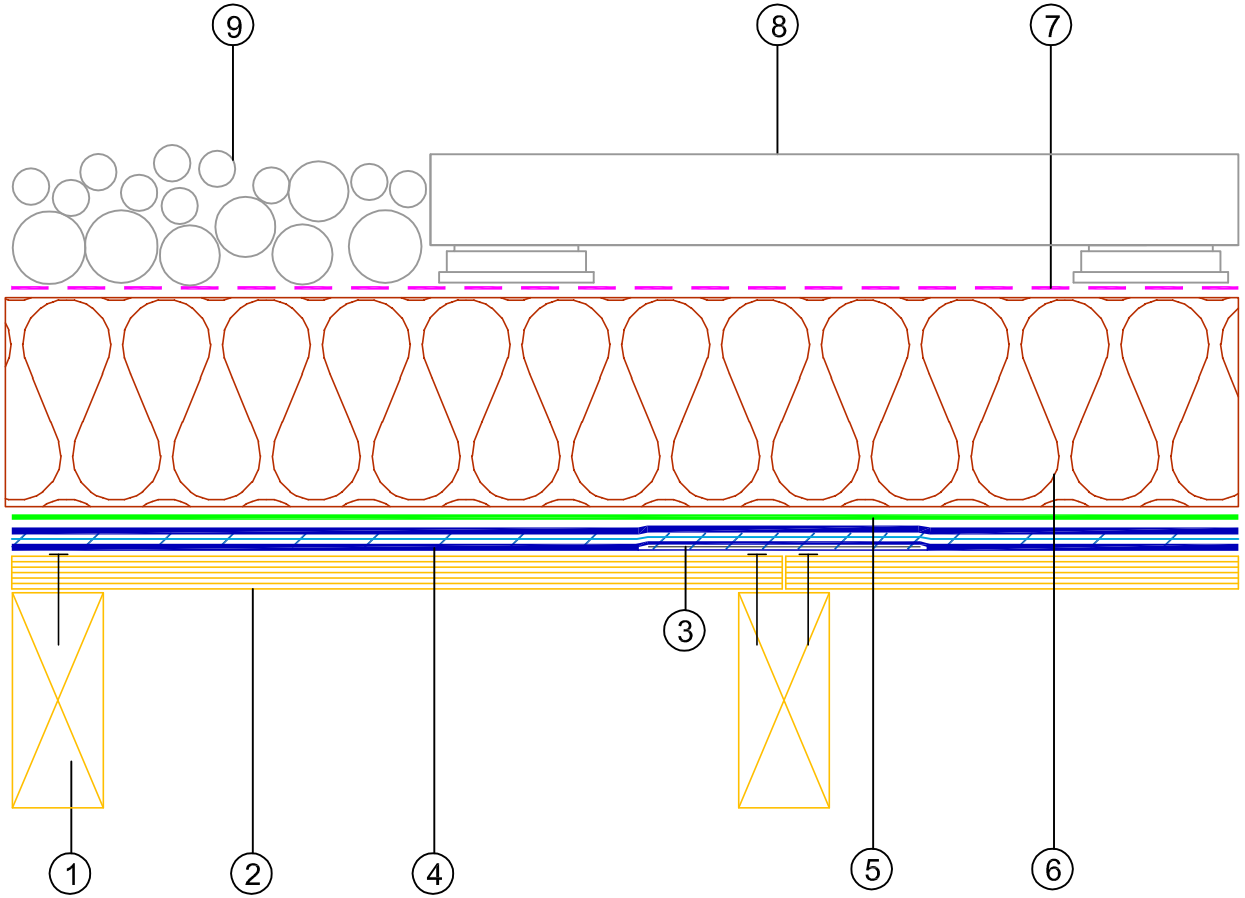
April 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1C

Section Key

1. Timber joist
2. 18mm Plywood mechanically fixed to timber joists
3. PermaFLASH-D150 bonded in PermaTEC ECOWRAP
4. 2 layers of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
5. PermaGUARD-F protection layer
6. IKO enertherm XPS/EPS Inverted roof insulation board
7. IKO enertherm WCL (Water Control Layer)
8. Minimum 50mm thick paving slabs on proprietary supports
9. Minimum layer of 16-32mm rounded washed aggregate





Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

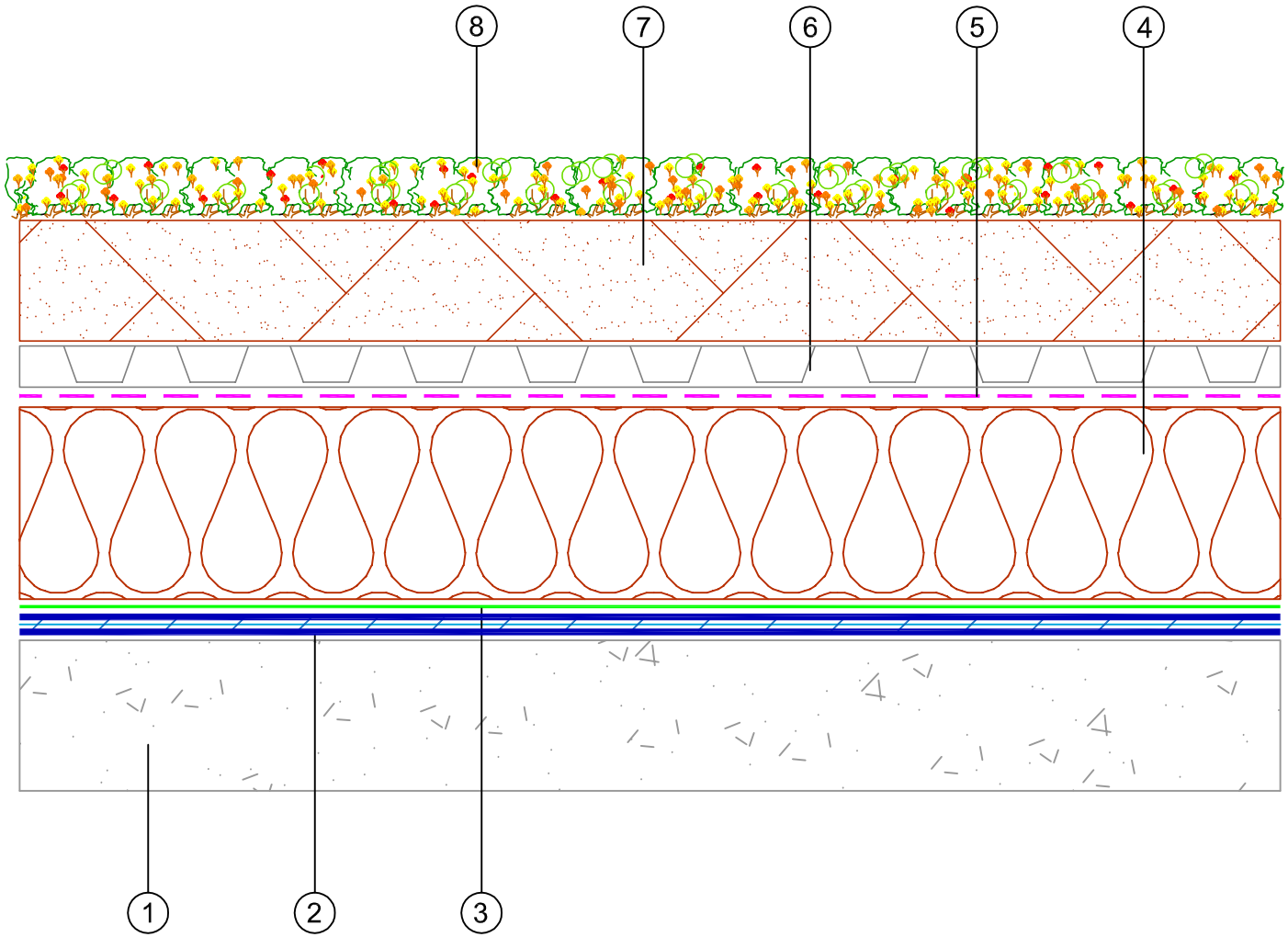
TYPICAL INVERTED ROOF ASSEMBLY PLYWOOD DECK

April 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1D

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. PermaGUARD - F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board
5. IKO enertherm WCL (Water Control Layer)
6. IKO Plasfeed drainage/moisture retention layer (as specification)
7. IKO Extensive Growing Medium
8. IKO Sedum blanket/ Plug plant



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load over the insulation of 80Kg/m2 to resist wind uplift is required.

For a green roof the growing medium dry weight must be used in order to achieve the minimum 80Kg/m2 load.

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

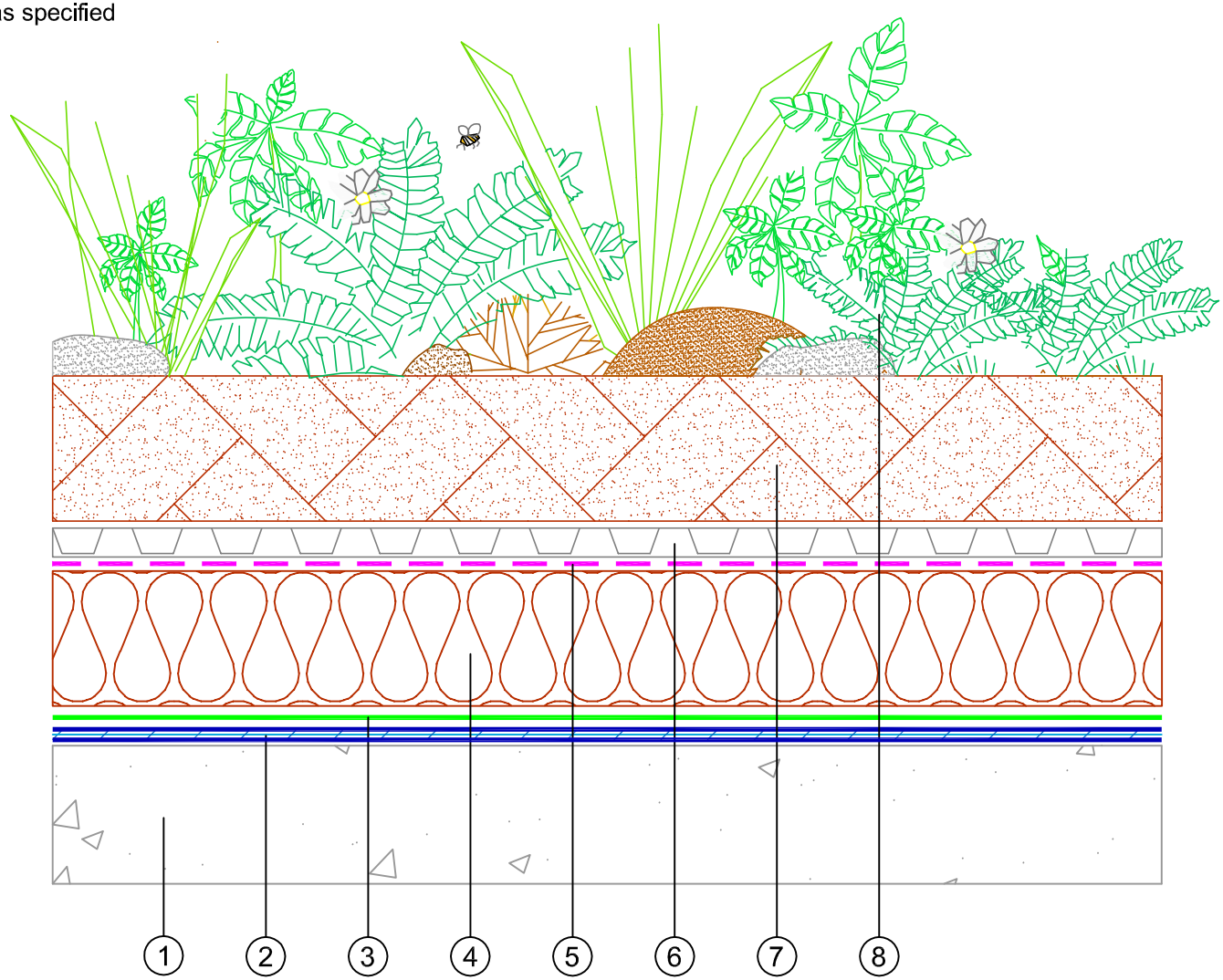
TYPICAL EXTENSIVE GREEN ROOF

April 2015	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1E

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. PermaGUARD - F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board.
5. IKO enertherm WCL (Water Control Layer)
6. IKO Plasfeed drainage/moisture retention layer (as specification)
7. IKO Intensive Growing Medium
8. Vegetation as specified



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load over the insulation of 80Kg/m2 to resist wind uplift is required.

For a green roof the growing medium dry weight must be used in order to achieve the minimum 80Kg/m2 load.

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

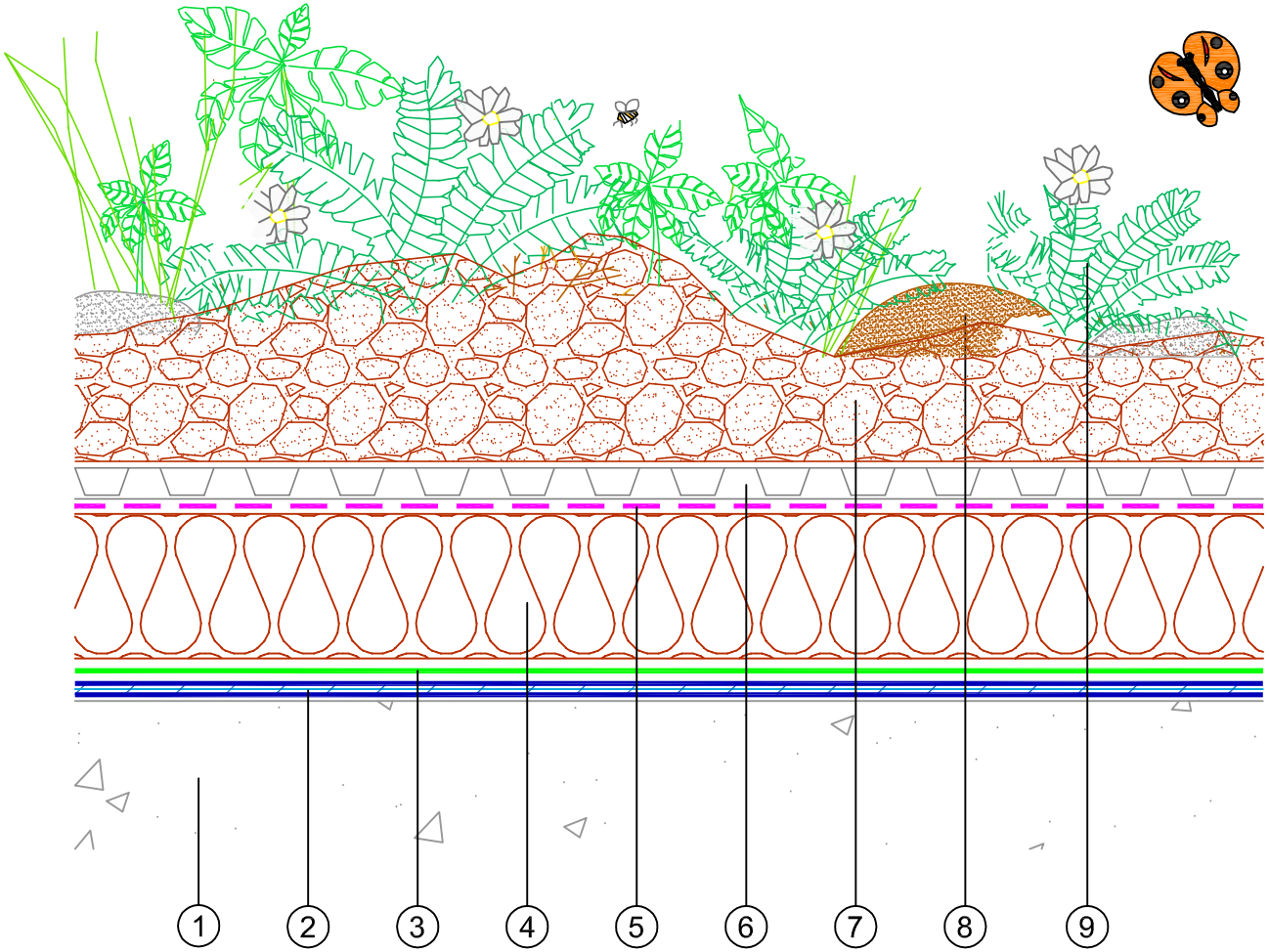
TYPICAL INTENSIVE GREEN ROOF BUILD UP

April 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1F

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. PermaGUARD - F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board.
5. IKO enertherm WCL (Water Control Layer)
6. IKO Plasfeed drainage/moisture retention layer (as specification)
7. IKO Biodiverse Growing Medium, mounded between minimum 70mm up to about 200mm.
8. Optional logs and Insect Houses
9. Vegetation as specified, to enhance the pre-development habitat & attract specific wildlife



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load over the insulation of 80Kg/m2 to resist wind uplift is required.

For a green roof the growing medium dry weight must be used in order to achieve the minimum 80Kg/m2 load.

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

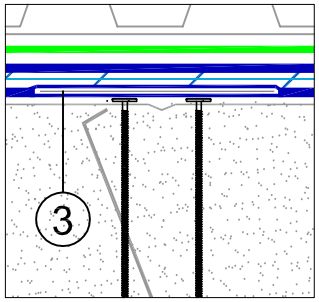
TYPICAL BIODIVERSE GREEN ROOF BUILD UP

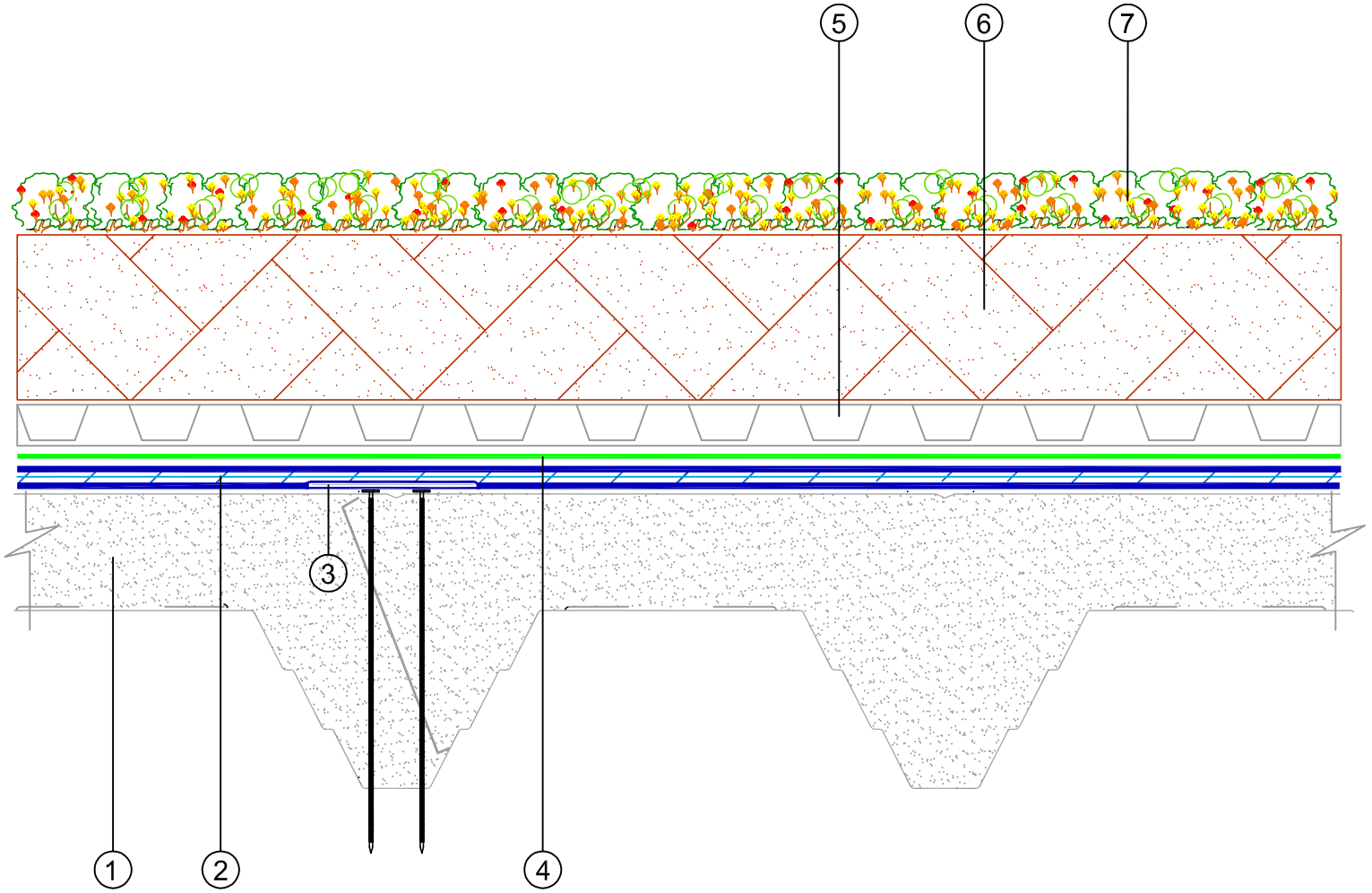
July 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1F(A)

Section Key

1. Compatible composite insulated roof deck
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. 150mm wide PermaFLASH-D150 bonded in PermaTEC AntiRoot
4. PermaGuard-F protection layer
5. IKO Plasfeed drainage/moisture retention layer (as specification)
6. IKO Extensive Growing Medium
7. IKO Sedum blanket/ Plug plant





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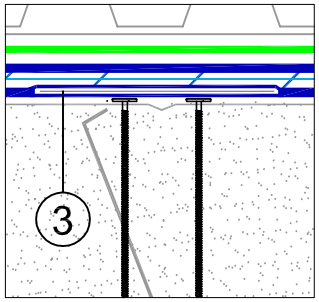
Drawing Title:
TYPICAL EXTENSIVE GREEN ROOF SECTION ON COMPOSITE INSULATED ROOF DECK

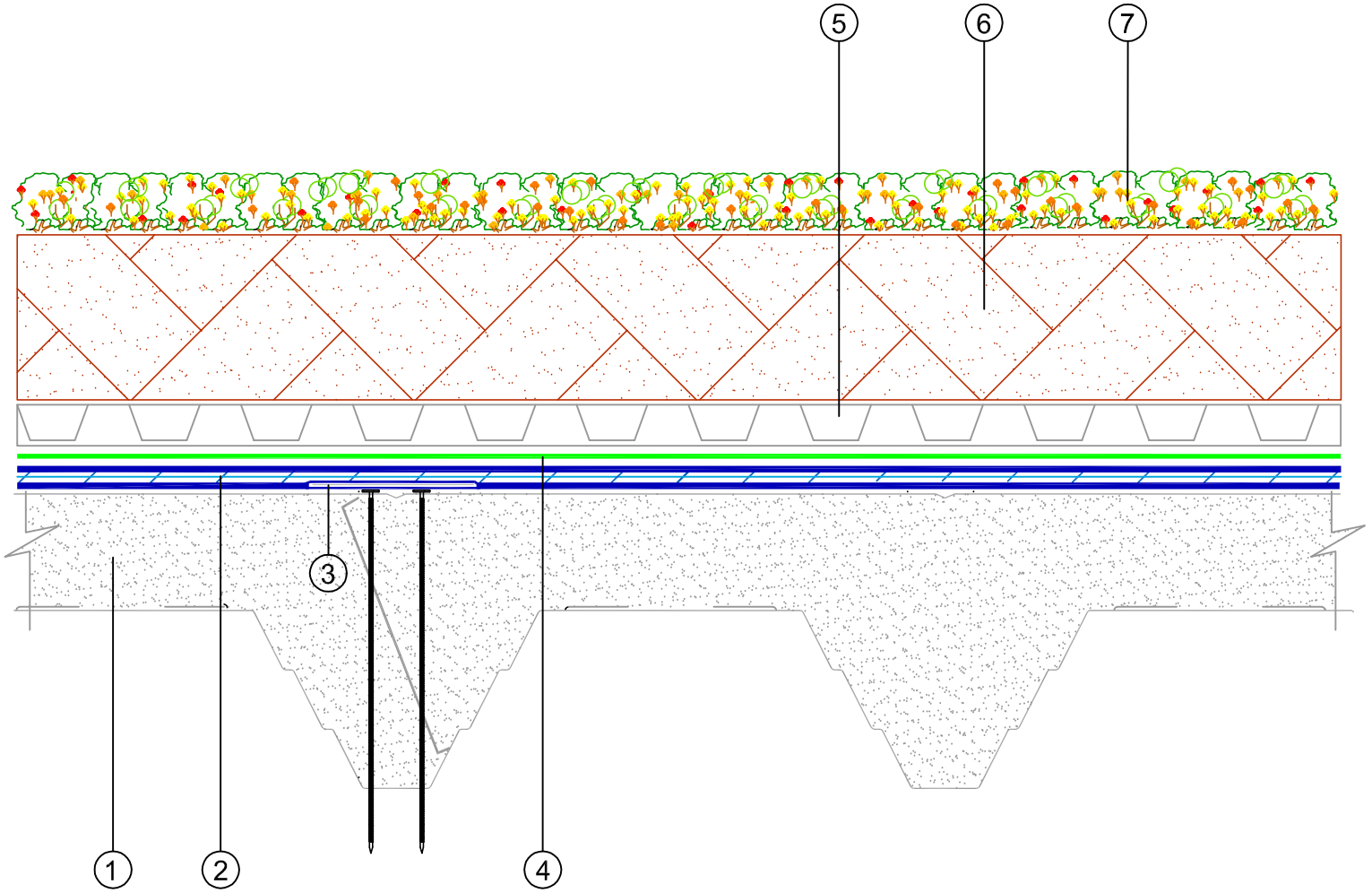
April 2015	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1G

Section Key

1. Compatible composite insulated roof deck
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. 150mm wide PermaFLASH-D150 bonded in PermaTEC AntiRoot
4. PermaGuard-F protection layer
5. IKO Plasfeed drainage/moisture retention layer (as specification)
6. IKO Extensive Growing Medium
7. IKO Sedum blanket/ Plug plant





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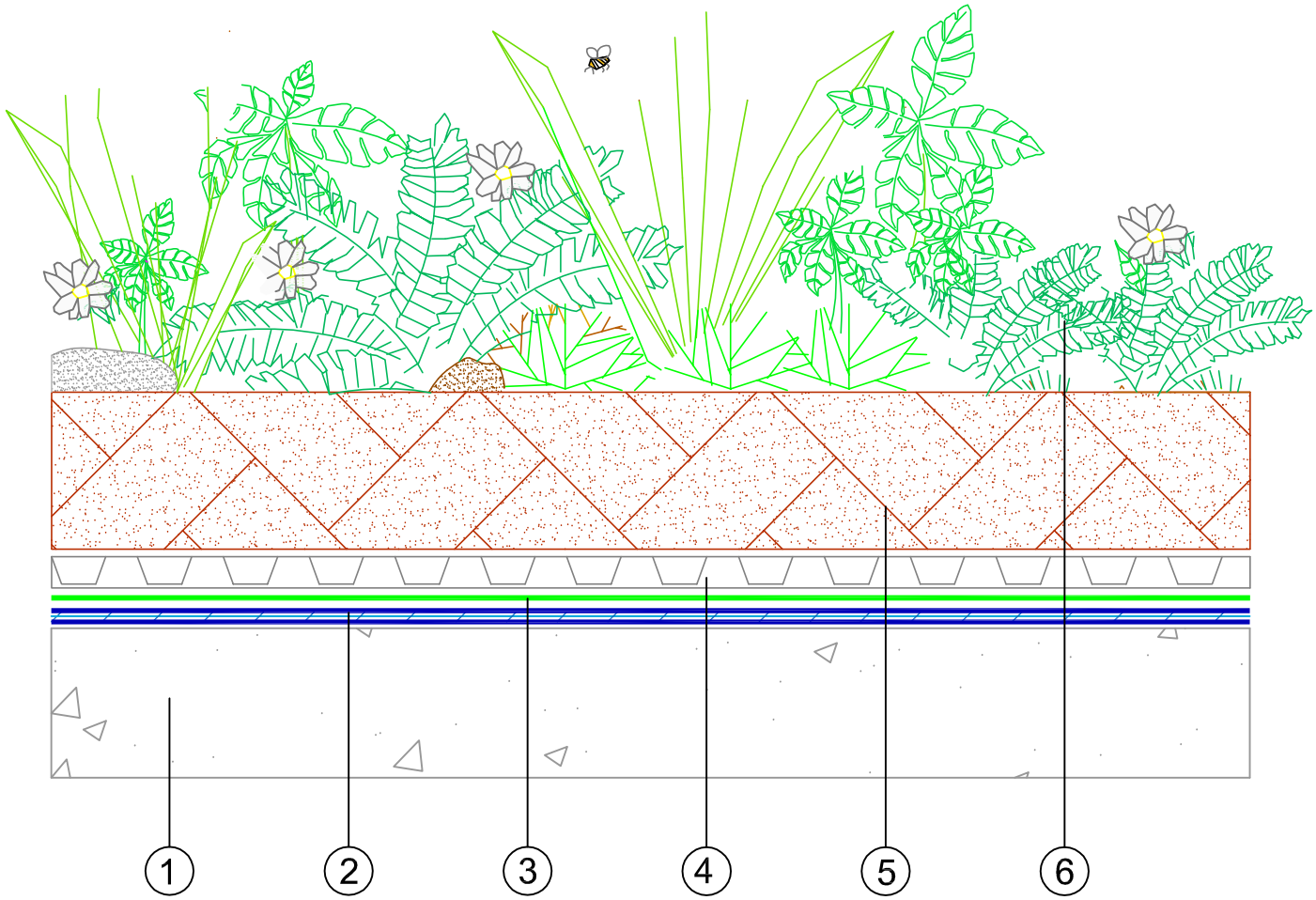
Drawing Title:
TYPICAL EXTENSIVE GREEN ROOF SECTION ON COMPOSITE INSULATED ROOF DECK

April 2015	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1G

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC AntiRoot incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
4. IKO Plasfeed drainage/moisture retention layer (as specification)
5. IKO Intensive Growing Medium
6. Vegetation as specified



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Drawing Title:

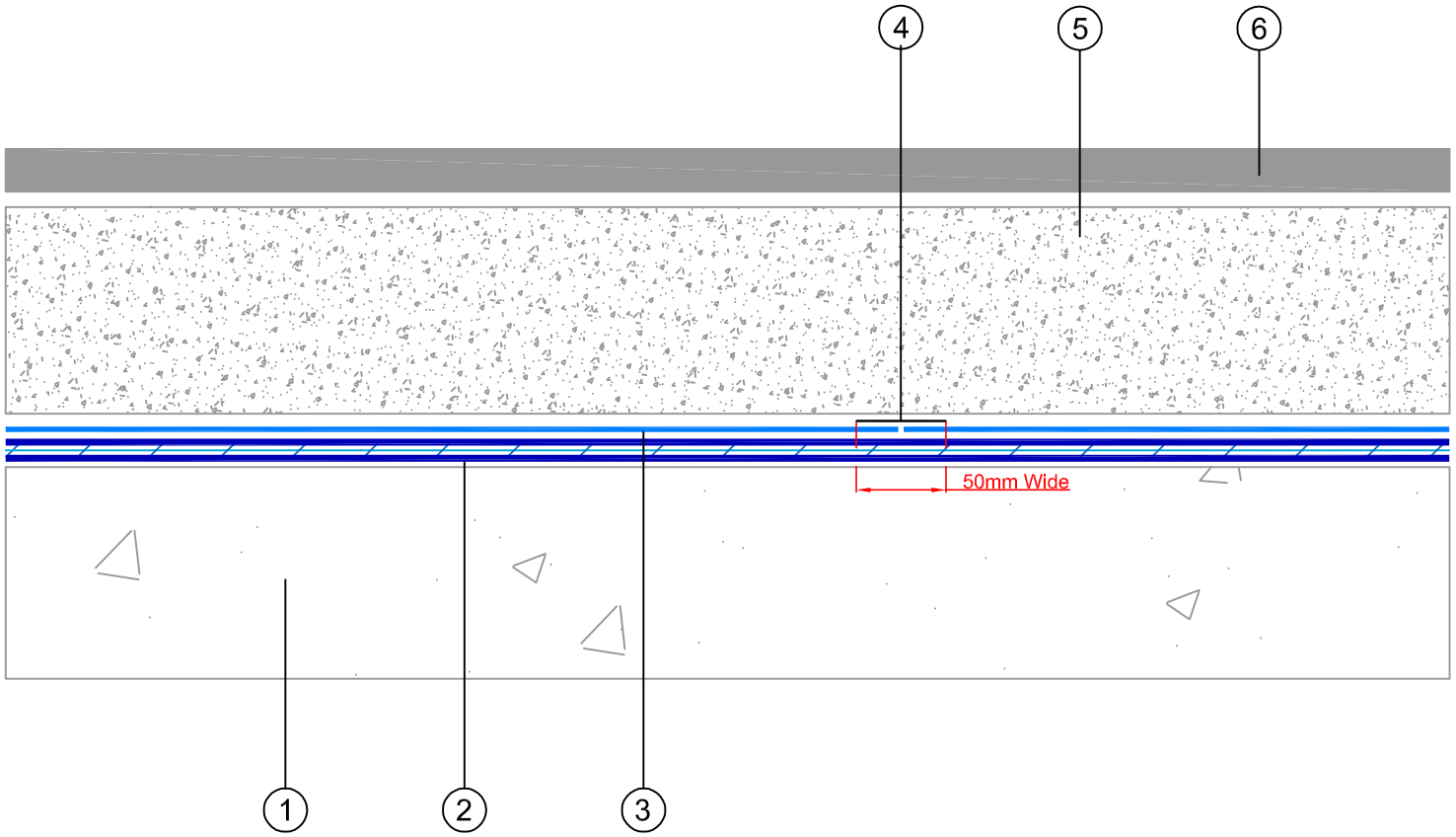
TYPICAL UNINSULATED INTENSIVE GREEN ROOF - BUILD UP

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1H

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD HDPB (Heavy Duty Protection Board)
4. 50mm wide tape over joints
5. Macadam Base Course
6. Macadam Wearing Course



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Drawing Title:

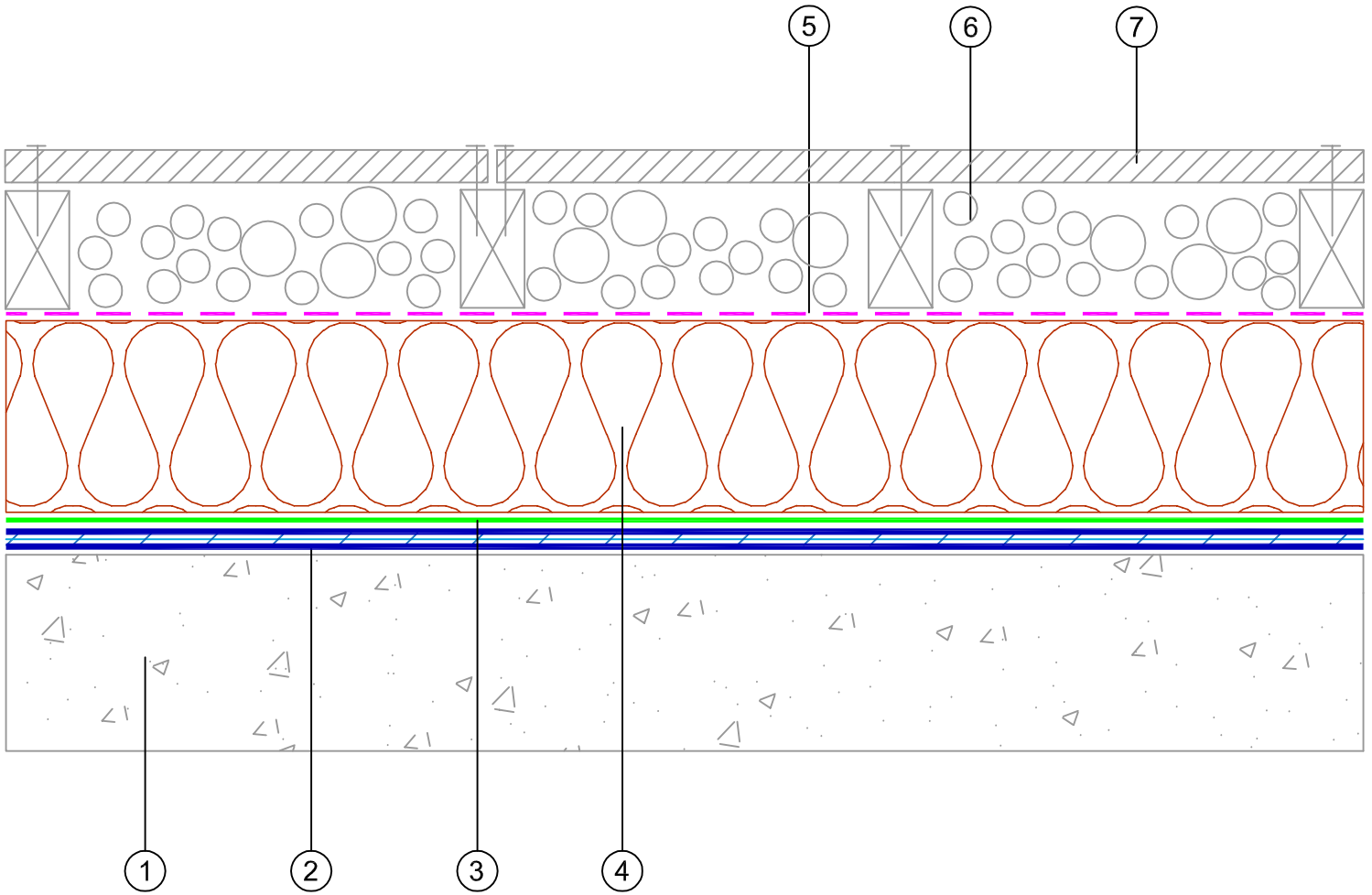
TYPICAL FLEXIBLE PAVEMENT OVER PERMATEC

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1J

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
4. IKO enertherm XPS/EPS Inverted roof insulation board
5. IKO enertherm WCL (Water Control Layer)
6. Minimum 50mm layer of 20 - 40mm rounded washed aggregate
7. Timber deck on timber joists (Specified and designed by others)



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

For timber decking it is usual to specify 50mm deep rounded ballast between the supports, in order to achieve the minimum 80Kg/m2 load.

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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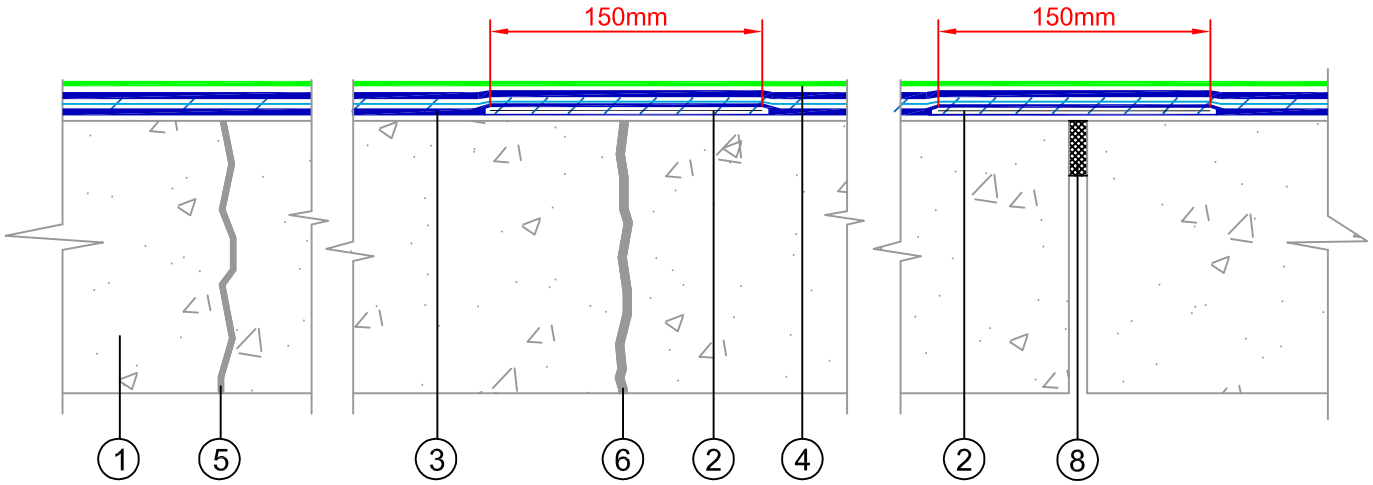
Drawing Title:
TYPICAL INVERTED ROOF WITH TIMBER DECKING

April 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.1K



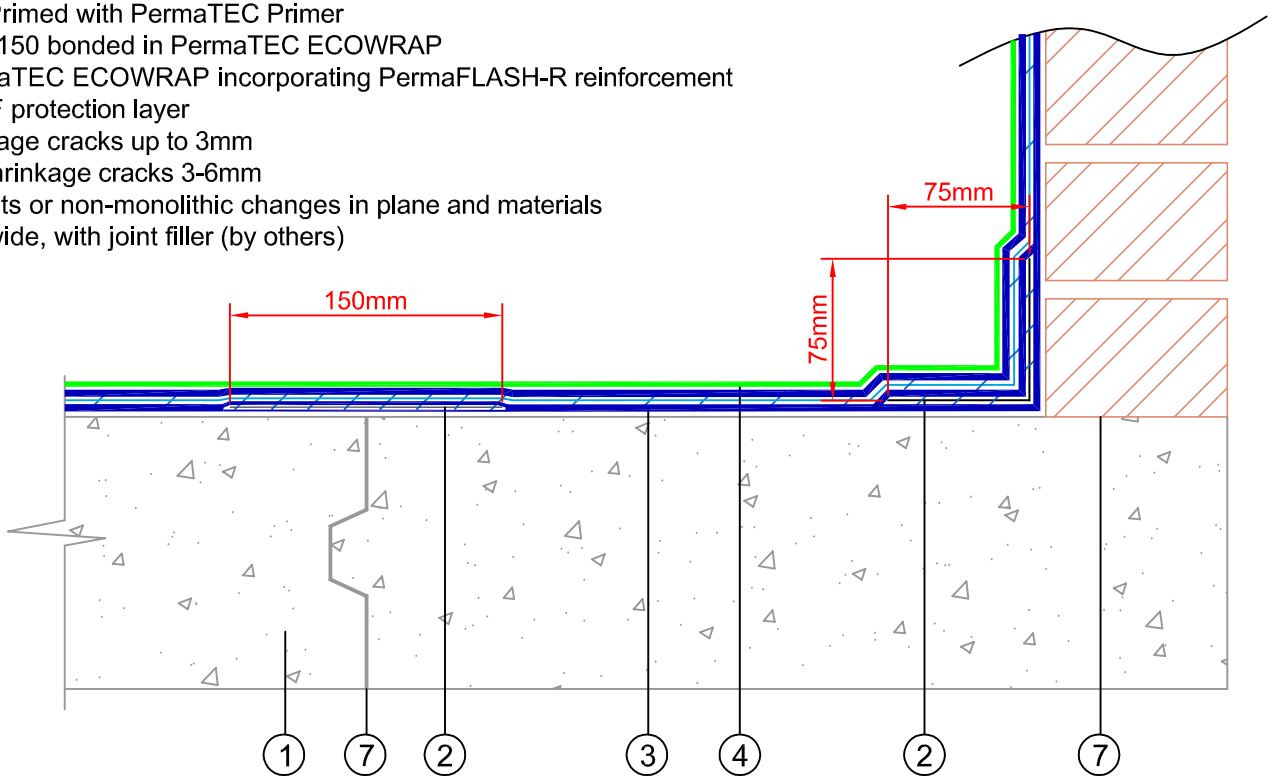
Section Key

Up To 3mm Cracks

3-6mm Cracks

6-12mm Joint

1. Concrete Deck Primed with PermaTEC Primer
2. PermaFLASH-D150 bonded in PermaTEC ECOWRAP
3. 2 layers of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Structural/shrinkage cracks up to 3mm
6. Structural and shrinkage cracks 3-6mm
7. Construction joints or non-monolithic changes in plane and materials
8. Joints 6-12mm wide, with joint filler (by others)



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Drawing Title:

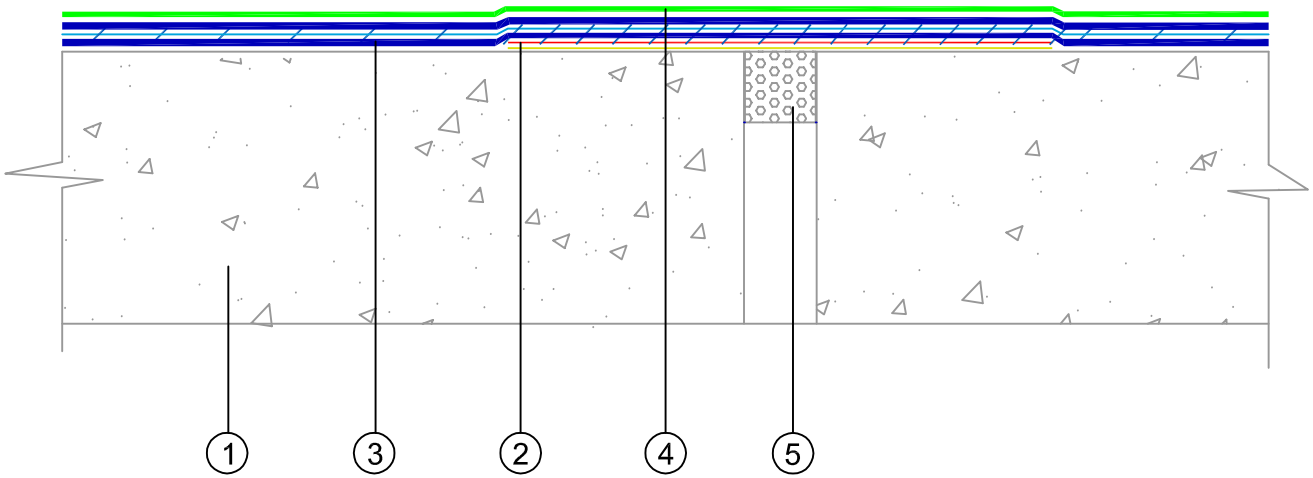
CRACK AND JOINT REINFORCEMENT DETAILS

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.2A

Section Key

1. Concrete deck primed with PermaTEC Primer
2. Proprietary expansion joint membrane installed in accordance with manufacturer's instructions (by others)
3. 2 layers of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Joint filler board (by others)



NB: 12 - 50MM GAP. MAXIMUM 50% TOTAL MOVEMENT

Notes

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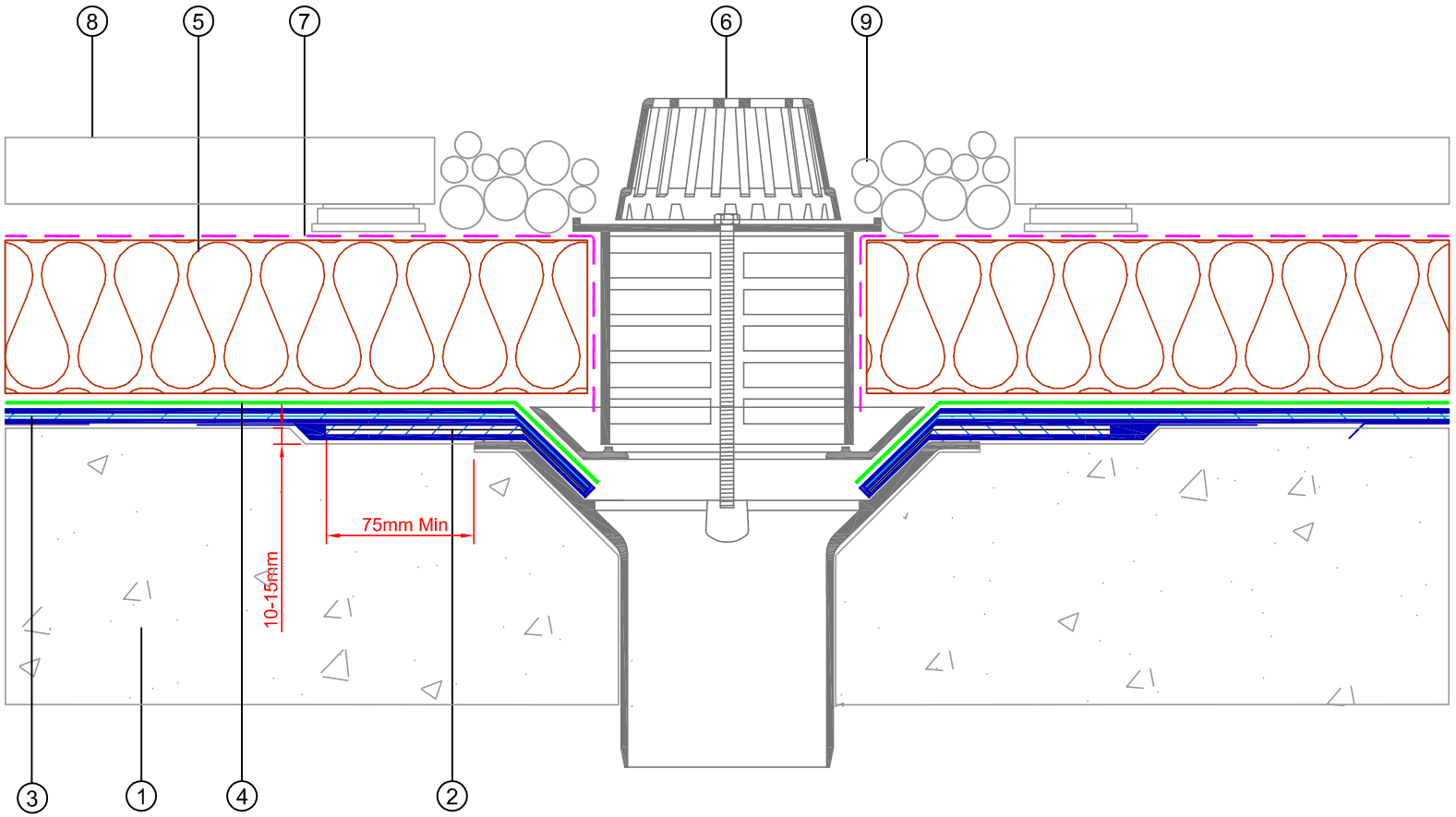
Drawing Title:
TYPICAL EXPANSION JOINT DETAIL

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.2B

Section Key

1. Concrete slab primed with PermaTEC Primer
2. PermaFLASH-D500 bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO Vertical Spigot Roof Outlet with Extension Ring & Domed Grate. Sealed to downpipe
7. IKO enertherm WCL (Water Control Layer)
8. Minimum 50mm thick paving slabs on proprietary supports
9. Minimum 50mm layer of 16-32mm rounded washed aggregate



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

IKO permatec
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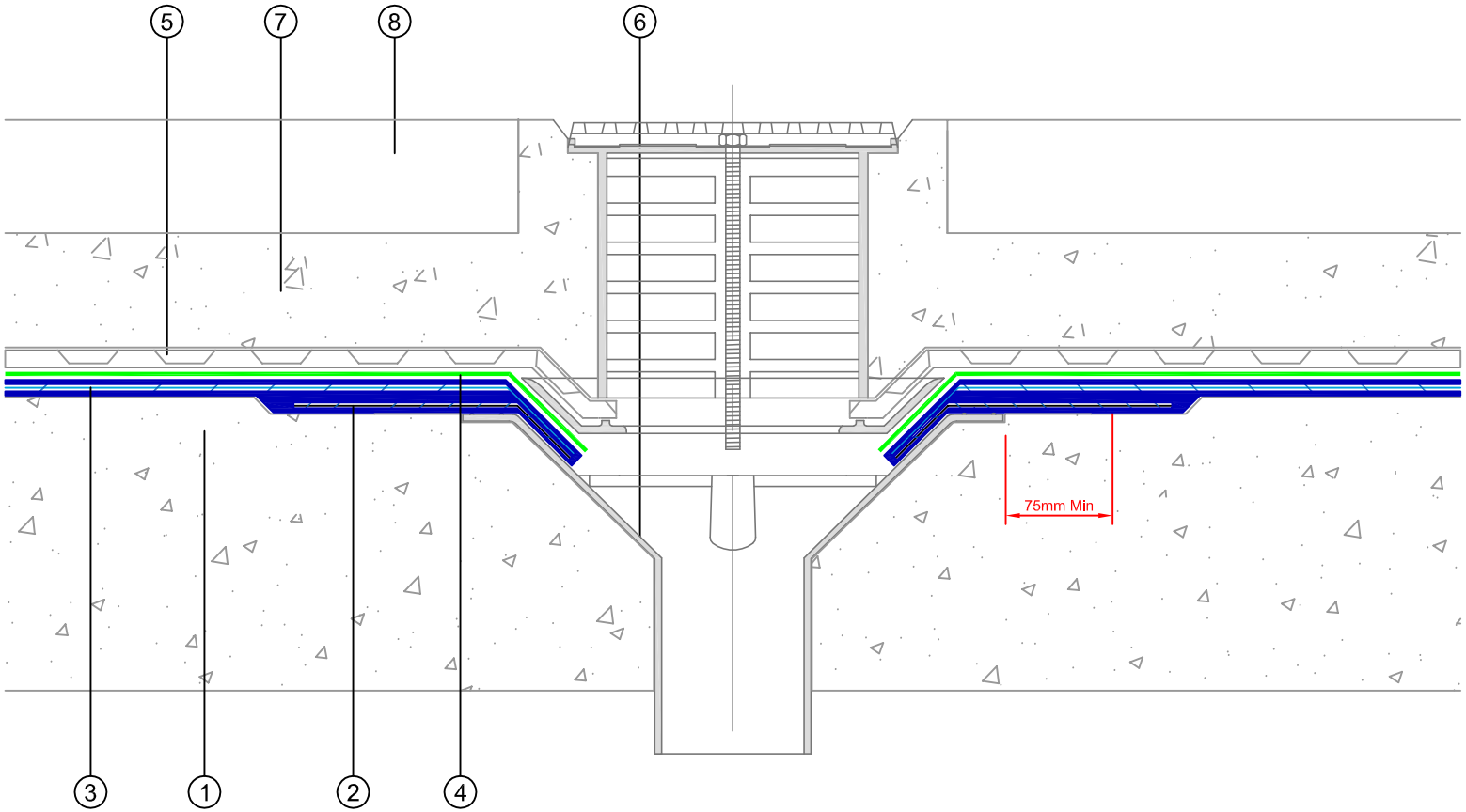
Drawing Title:
TYPICAL RAINWATER OUTLET INVERTED ROOF

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.3A

Section Key

1. Concrete slab primed with PermaTEC Primer
2. 500mm wide PermaFLASH-D500 bedded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO Plasdrain drainage layer (as specification)
6. IKO Vertical Spigot Roof Outlet with Extension Ring & Flat Grate. Sealed to down pipe
7. Bedding material (by others)
8. Paving material (by others)



Notes

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Drawing Title:

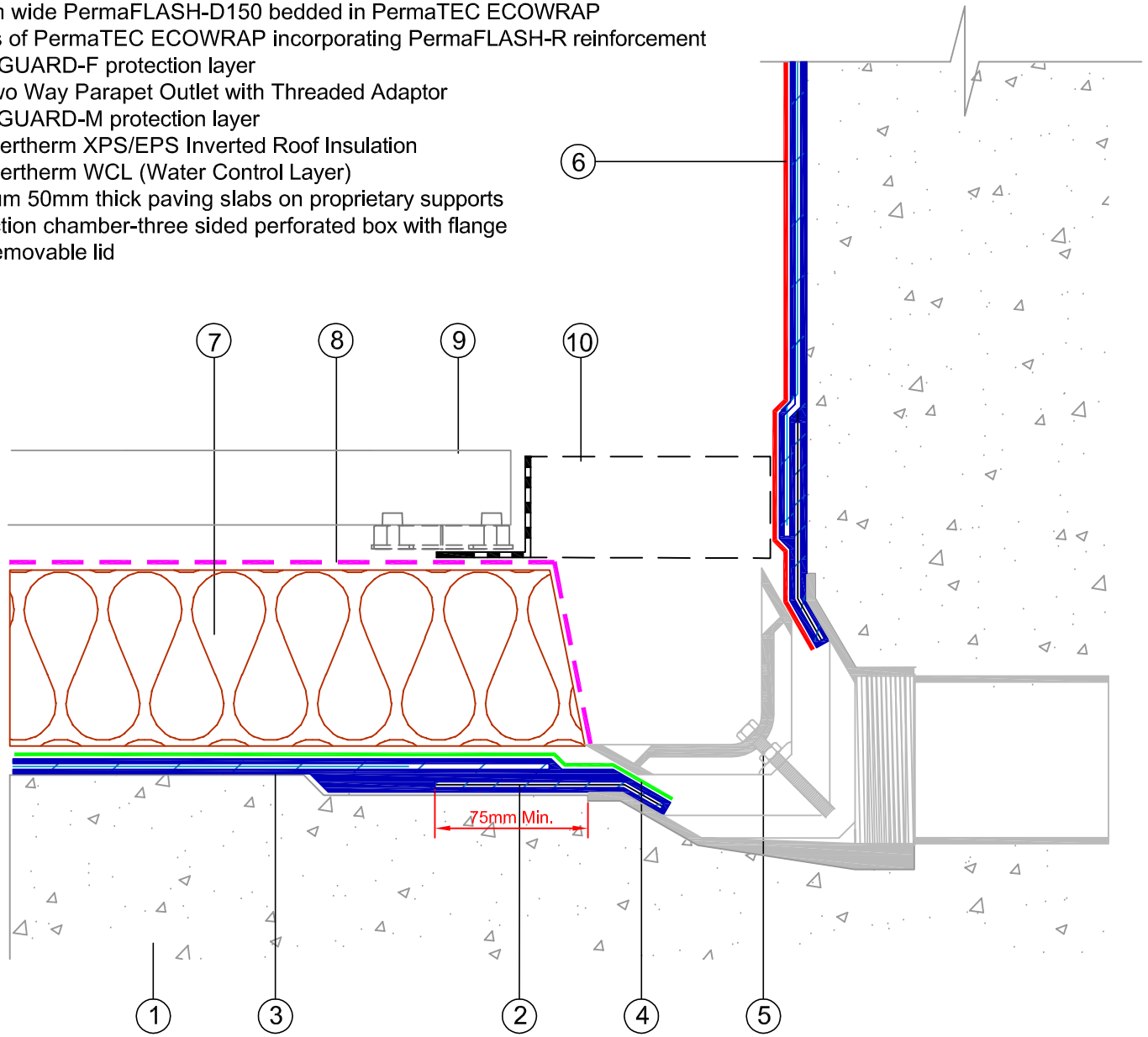
TYPICAL RAINWATER OUTLET – UNINSULATED PODIUM DECK

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.3B

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 150mm wide PermaFLASH-D150 bedded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO Two Way Parapet Outlet with Threaded Adaptor
6. PermaGUARD-M protection layer
7. IKO enertherm XPS/EPS Inverted Roof Insulation
8. IKO enertherm WCL (Water Control Layer)
9. Minimum 50mm thick paving slabs on proprietary supports
10. Inspection chamber-three sided perforated box with flange with removable lid



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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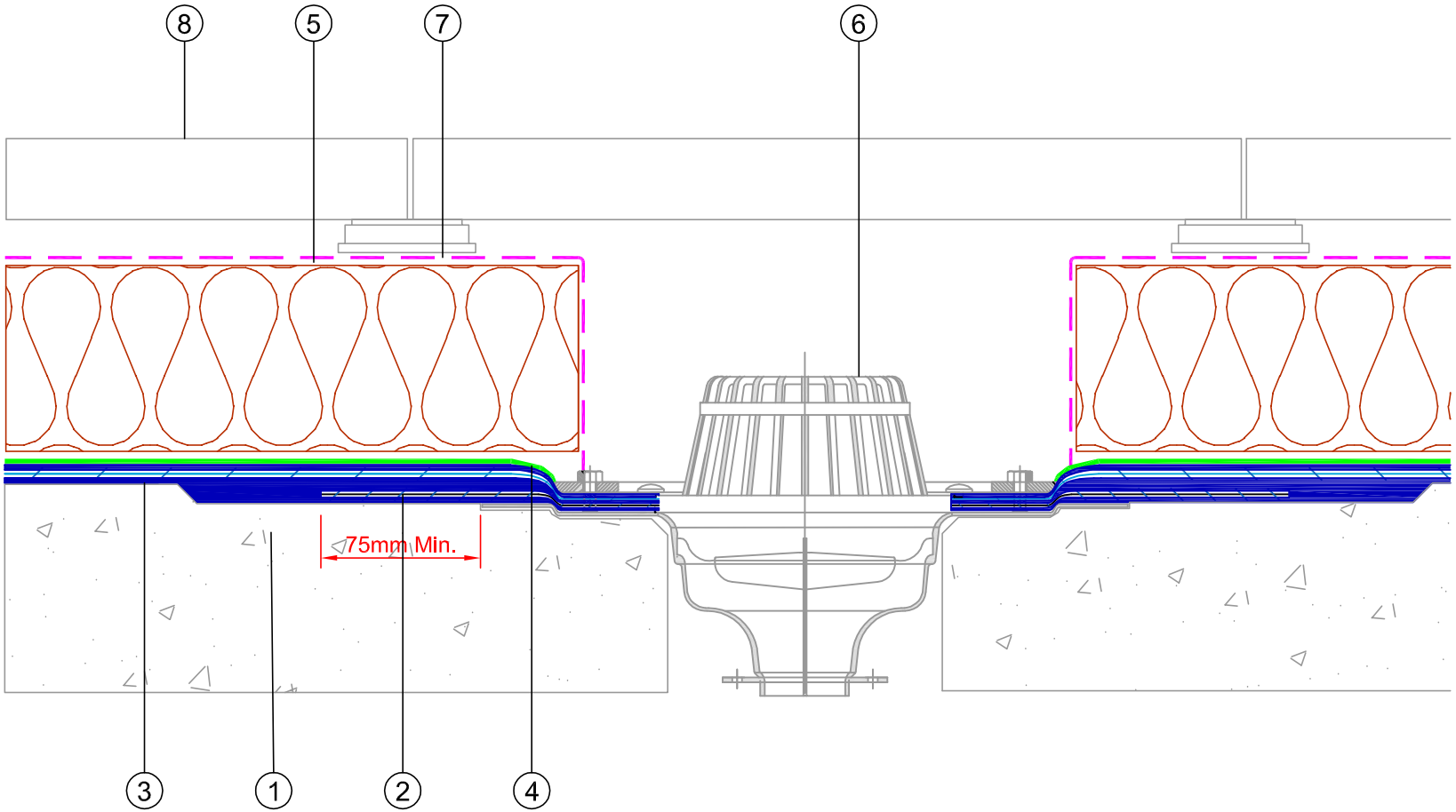
Drawing Title:
TYPICAL RAINWATER OUTLET PARAPET - BALCONY

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME	1	PT.3C

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 500mm wide PermaFLASH-D500 bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. Clamp Ring Syphonic Rainwater Outlet
7. IKO enertherm WCL (Water Control Layer)
8. Minimum 50mm thick paving slabs on proprietary supports
9. Minimum 50mm layer of 20-40mm rounded washed aggregate



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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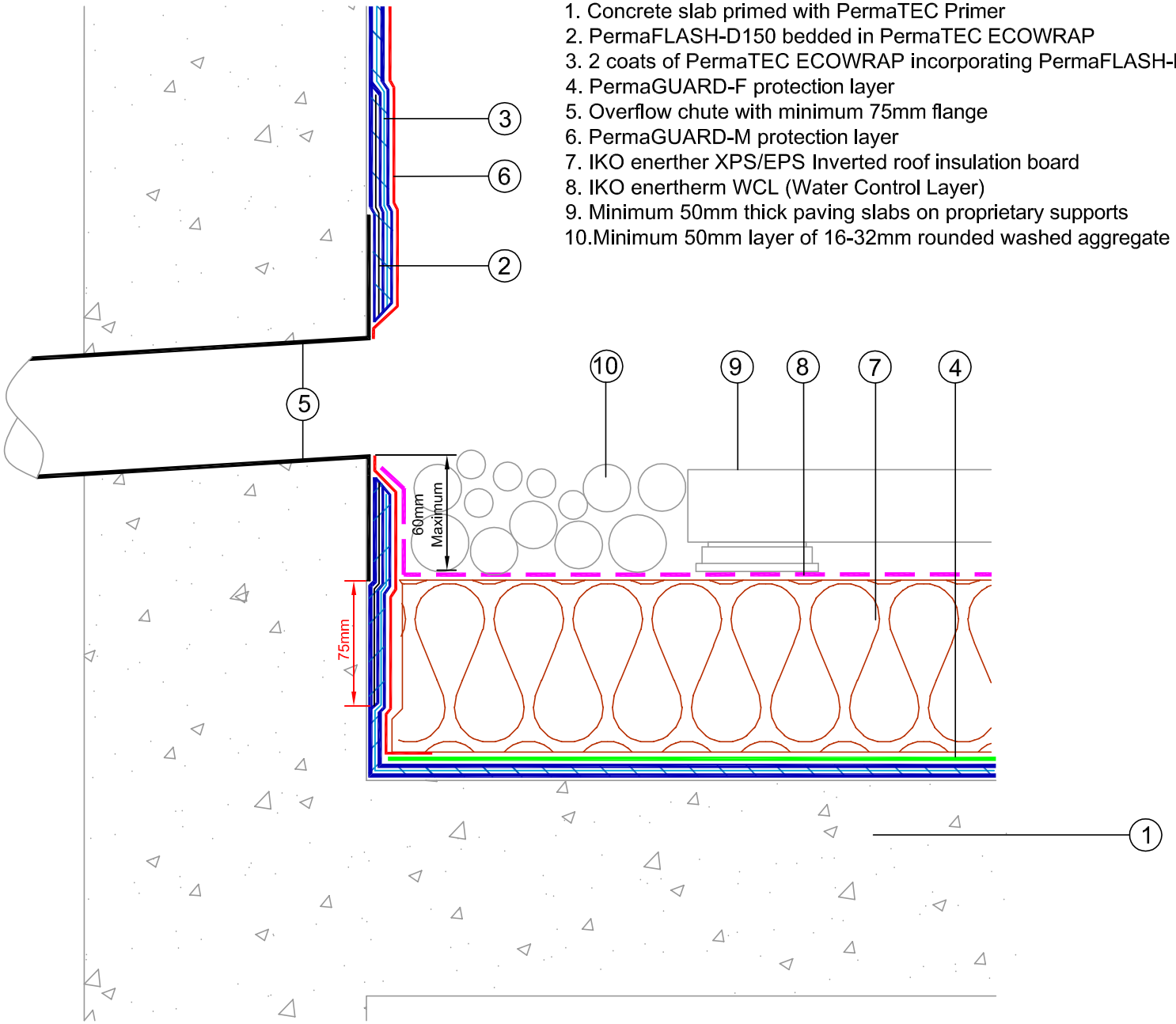
Drawing Title:
TYPICAL SYPHONIC RAINWATER OUTLET INVERTED ROOF

Date:	Scale:
April 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.3D

Section Key

1. Concrete slab primed with PermaTEC Primer
2. PermaFLASH-D150 bedded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Overflow chute with minimum 75mm flange
6. PermaGUARD-M protection layer
7. IKO enerther XPS/EPS Inverted roof insulation board
8. IKO enertherm WCL (Water Control Layer)
9. Minimum 50mm thick paving slabs on proprietary supports
10. Minimum 50mm layer of 16-32mm rounded washed aggregate



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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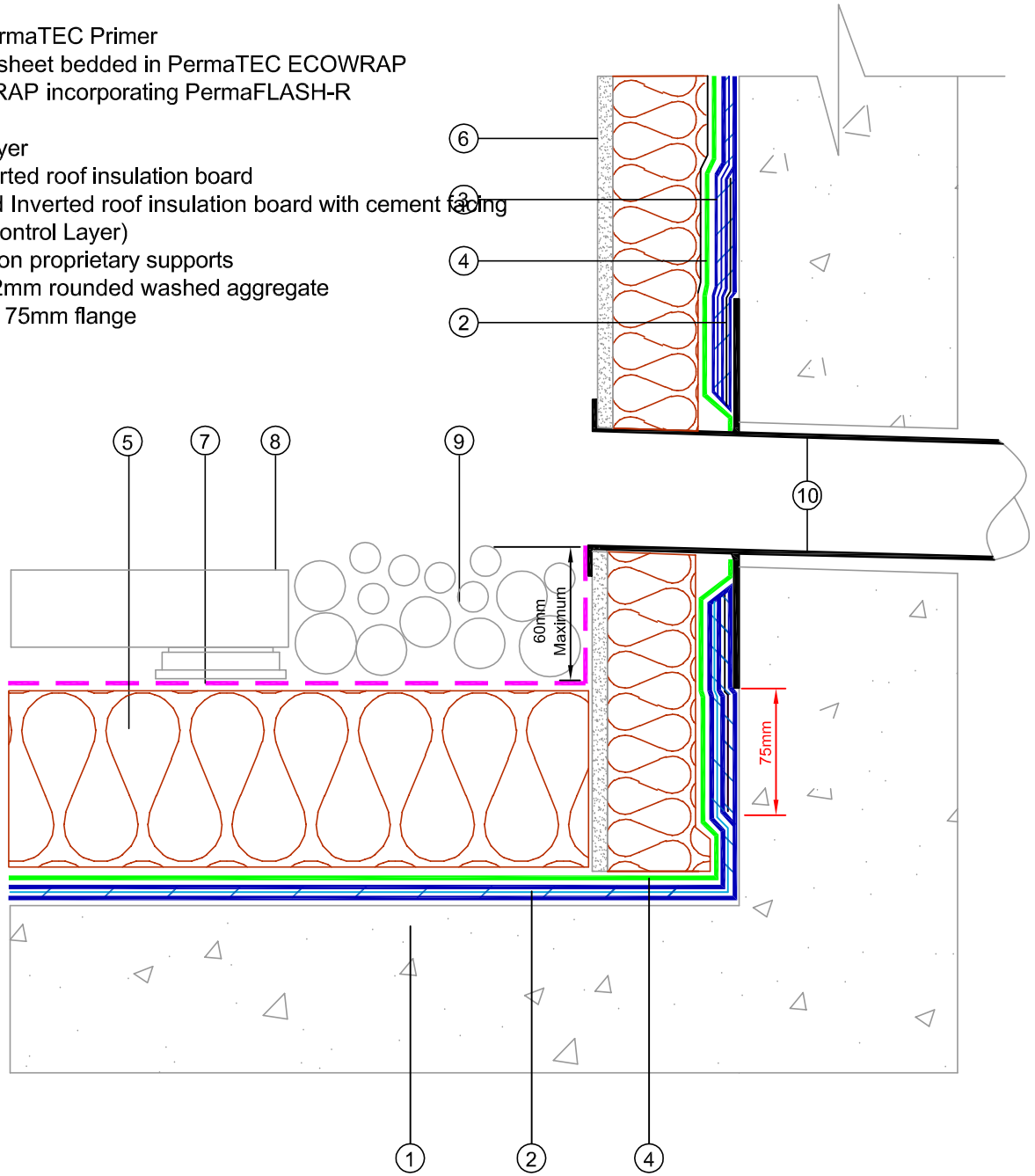
Drawing Title:
TYPICAL RAINWATER OVERFLOW CHUTE THROUGH UPSTAND

April 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.3E

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bedded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm Upstand Board Inverted roof insulation board with cement facing
7. IKO enertherm WCL (Water Control Layer)
8. Minimum 50mm paving slabs on proprietary supports
9. Minimum 50mm layer of 16-32mm rounded washed aggregate
10. Overflow chute with minimum 75mm flange



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys, a minimum load of 80Kg/m2 to resist wind uplift is required.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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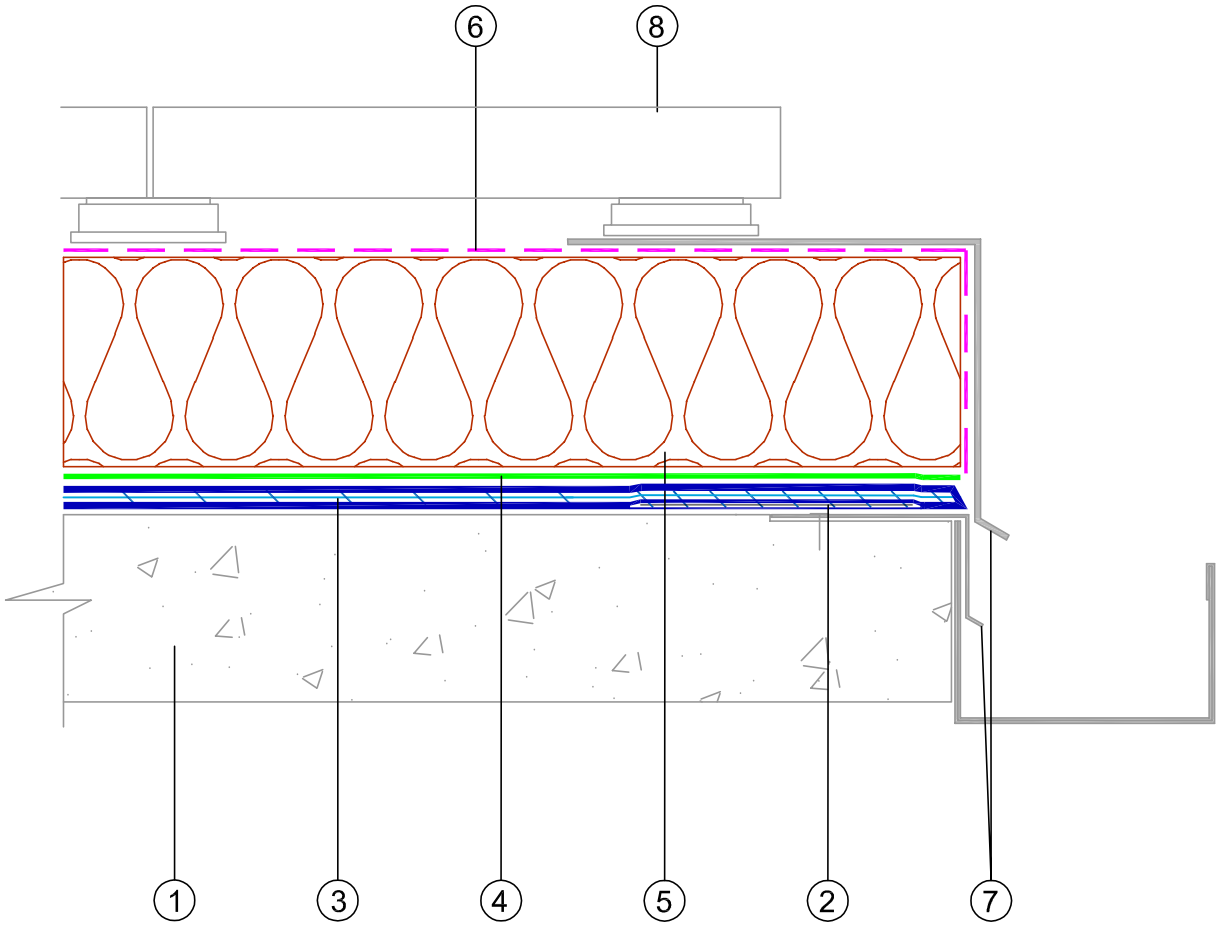
Drawing Title:
TYPICAL OVERFLOW CHUTE THROUGH INSULATED UPSTAND

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.3F

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Metal cover flashing (by others)
8. Minimum 50mm thick paving slabs on proprietary supports



Notes

Wind Uplift

For buildings in sheltered regions or less than 10 storeys.
You need a minimum load of 80Kg/m2 to resist wind uplift.

This can be achieved with 50mm depth of 16 - 32mm rounded ballast (80Kg/m2) or 50mm thick concrete slabs (120Kg/M2).

On buildings up to 15 storeys, the build-up above can still be used, but the perimeter must be loaded with paving slabs determined by reference to BS EN 1991-1-2: 2002. For other exposure conditions or tall buildings, specialist advice should be sought.

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Drawing Title:

TYPICAL DRIP TO GUTTER DETAIL

August 2017	Scale: NTS

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ME		PT.3G