IKO permatec®

Hot Melt Waterproofing System

Standard Detail Drawings

IKO Setting the Standard

Issue 6 – September 2017

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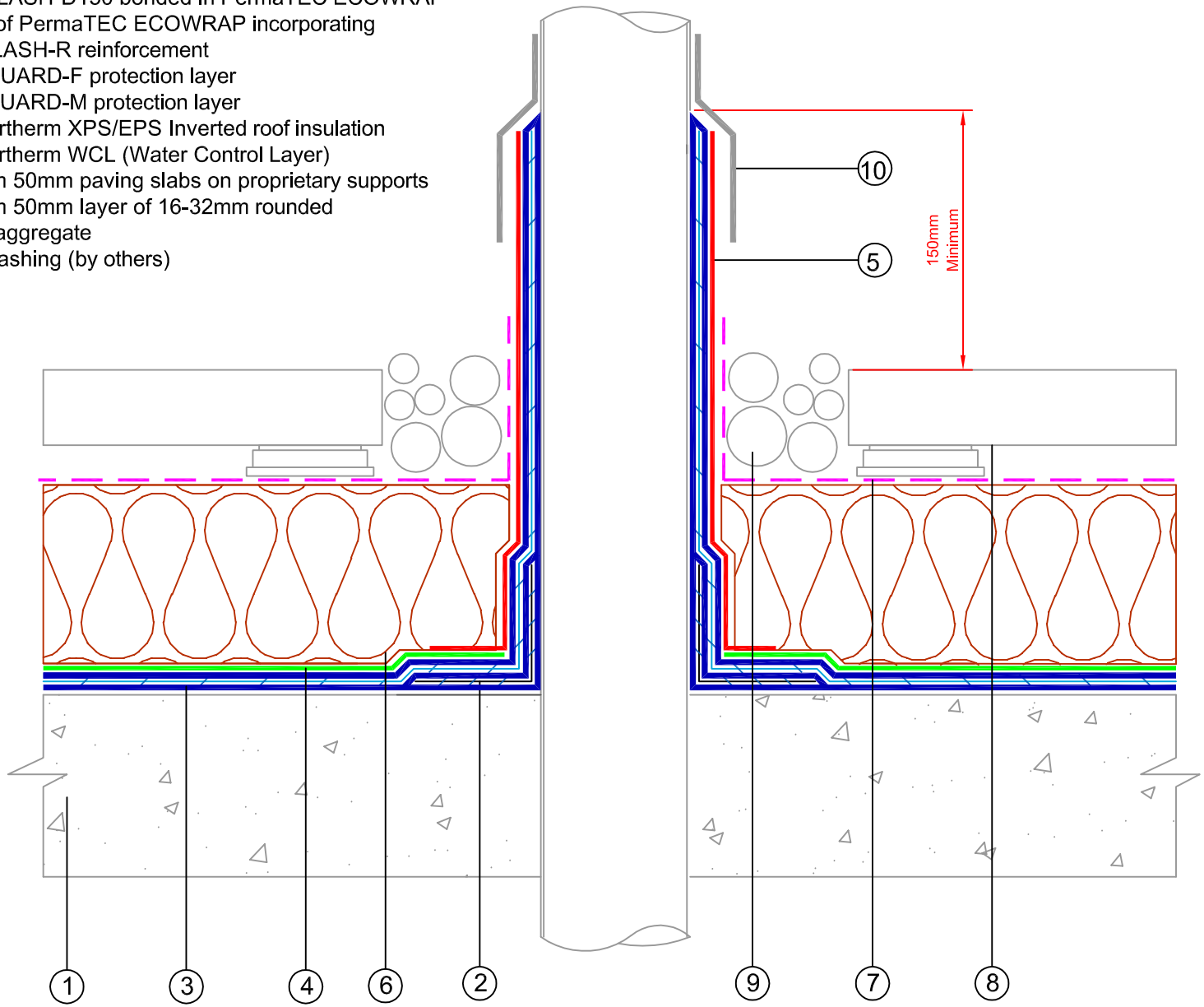
Section Key

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. PermaGUARD-M protection layer
6. IKO enertherm XPS/EPS Inverted roof insulation
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. Collar flashing (by others)



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 COLD METAL PIPE PENETRATION DETAIL

August 2017	Scale: NTS

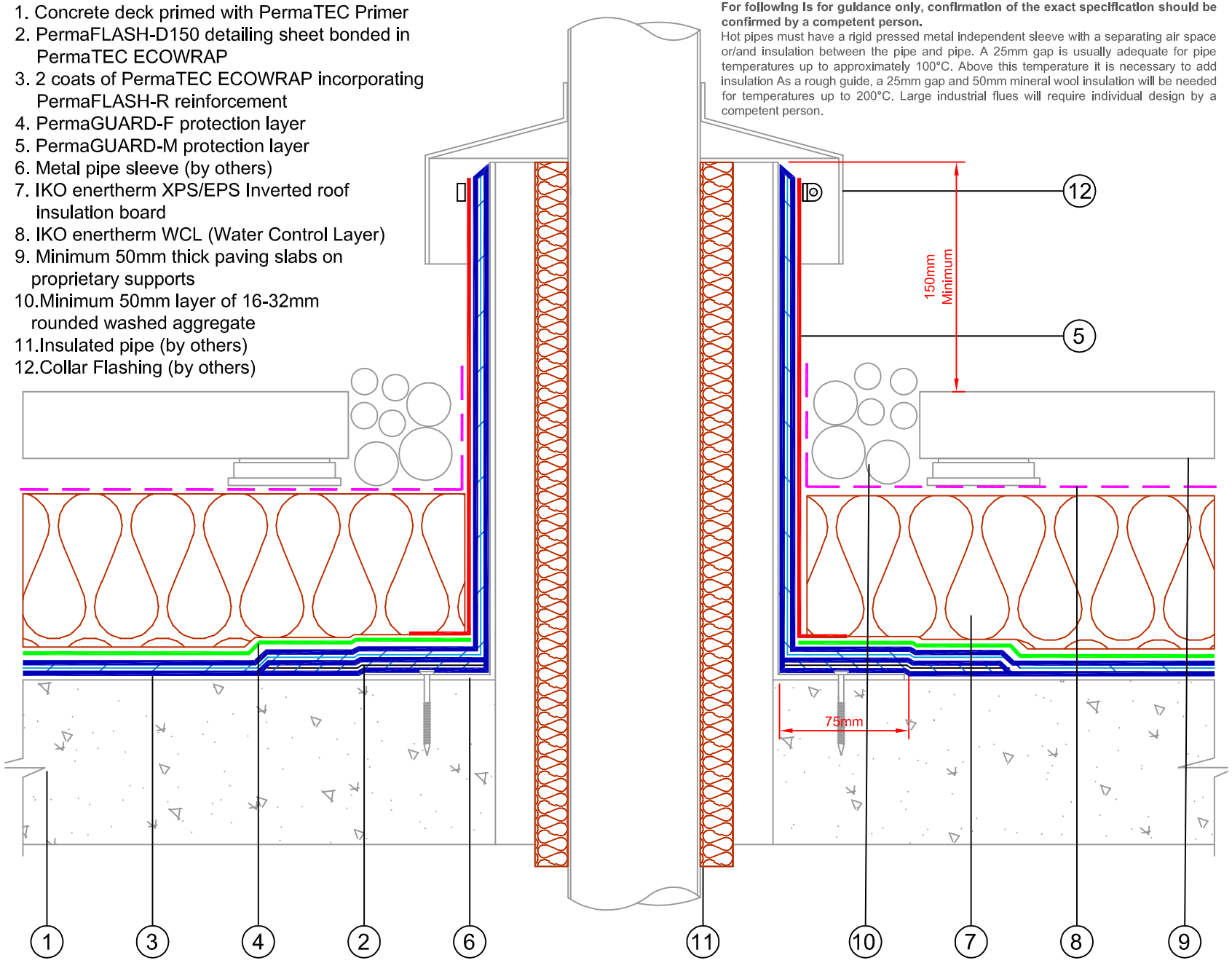
Drawn by:	Revision:	Sheet No:
ME		PT.4A

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. PermaGUARD-M protection layer
6. Metal pipe sleeve (by others)
7. IKO enertherm 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
11. Insulated pipe (by others)
12. Collar Flashing (by others)

If the hot pipe is a flue then the installation must always comply with Approved Document J (Combustion appliances) Part 3 of the Building Regulations 2000. This is especially important if the deck is timber and therefore combustible.

For following is for guidance only, confirmation of the exact specification should be confirmed by a competent person.
Hot pipes must have a rigid pressed metal independent sleeve with a separating air space or/and insulation between the pipe and pipe. A 25mm gap is usually adequate for pipe temperatures up to approximately 100°C. Above this temperature it is necessary to add insulation As a rough guide, a 25mm gap and 50mm mineral wool insulation will be needed for temperatures up to 200°C. Large industrial flues will require individual design by a competent person.



Notes

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You need a minimum load of 80Kg/m2 to resist wind uplift.

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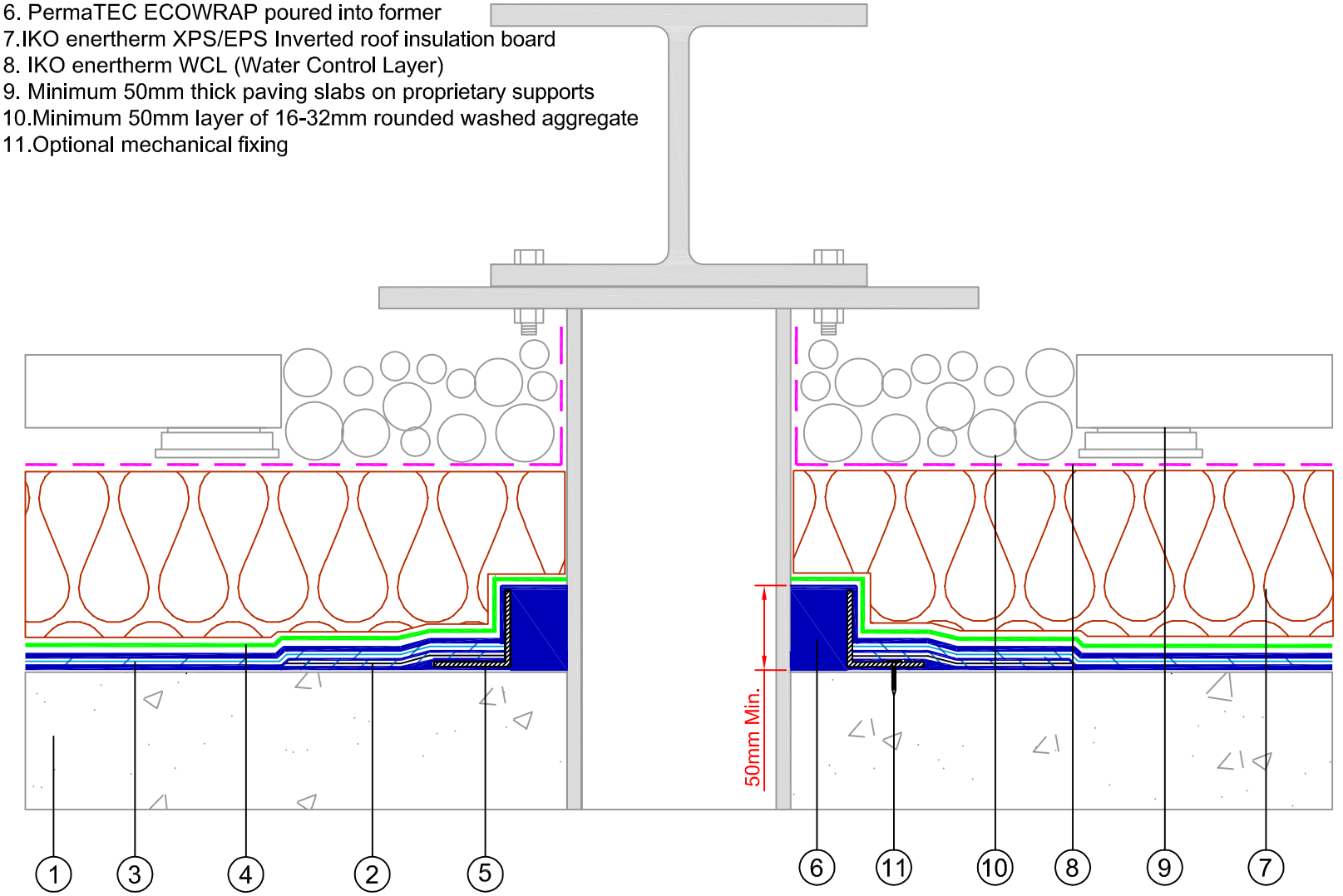
Drawing Title:
TYPICAL HOT PIPE PENETRATION DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4B

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Galvanised steel pitch pocket former bonded in PermaTEC Compound
6. PermaTEC ECOWRAP poured into former
7. IKO enertherm 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
11. Optional mechanical fixing



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You need a minimum load of 80Kg/m2 to resist wind uplift.

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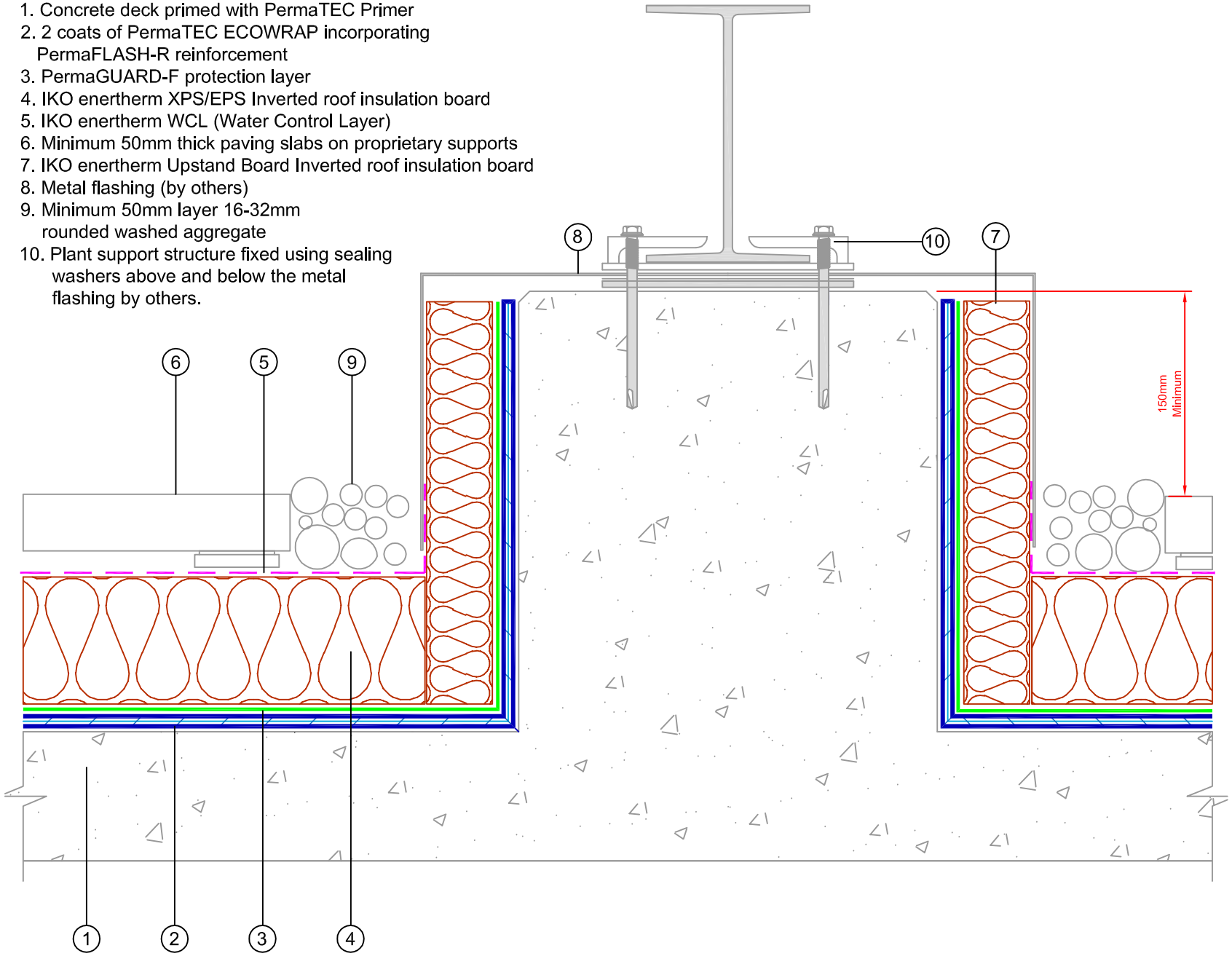
Drawing Title:
TYPICAL PITCH POCKET DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4C

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 thick paving slabs on proprietary supports
7. IKO enertherm Upstand Board Inverted roof insulation board
8. Metal flashing (by others)
9. Minimum 50mm layer 16-32mm rounded washed aggregate
10. Plant support structure fixed using sealing washers above and below the metal flashing by others.



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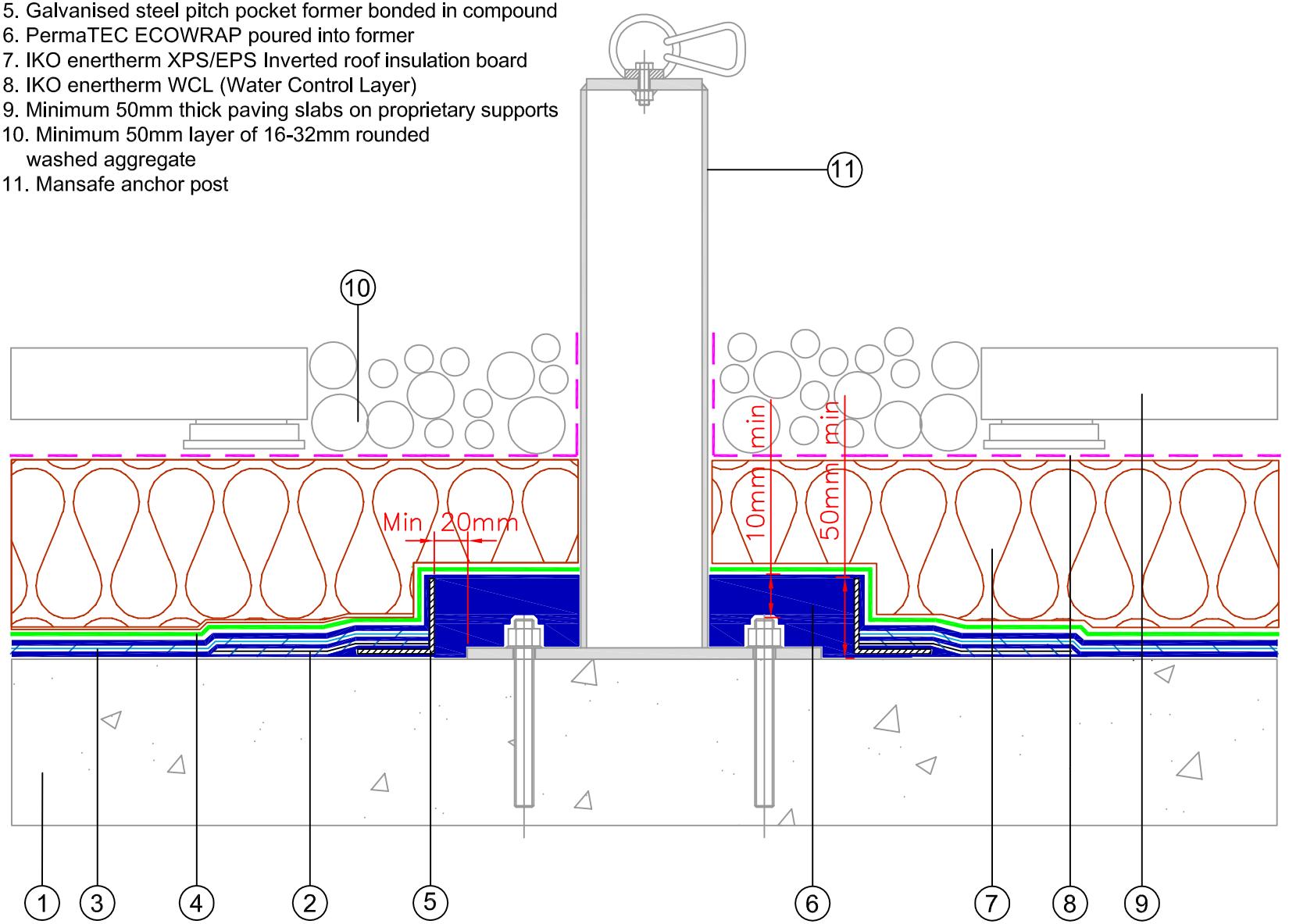
Drawing Title:
TYPICAL PLINTH DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4D

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Galvanised steel pitch pocket former bonded in compound
6. PermaTEC ECOWRAP poured into former
7. IKO enertherm 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
11. Mansafe anchor post



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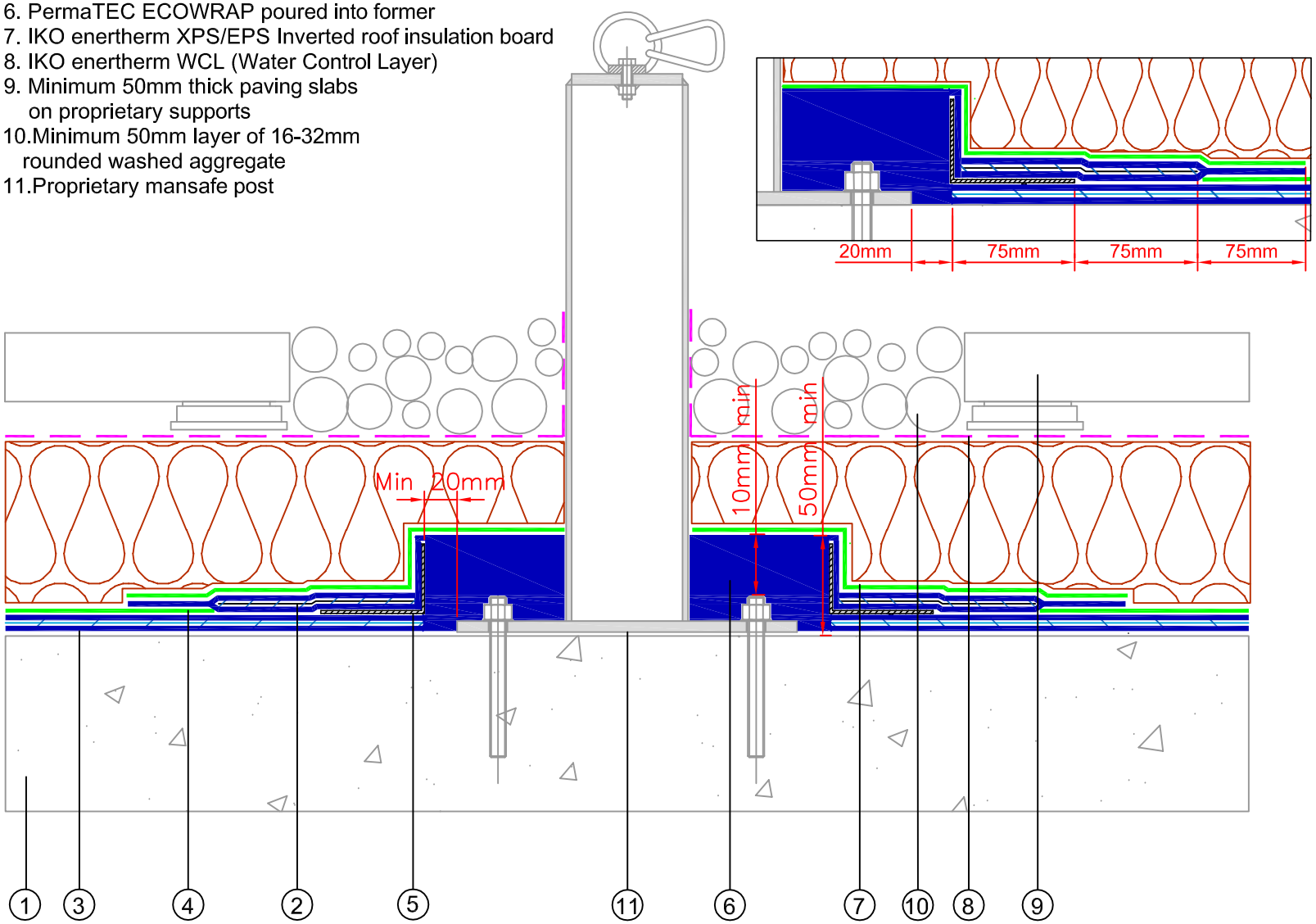
Drawing Title:
TYPICAL LATCHWAY MANSAFE SYSTEM

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4E

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. Galvanised steel pitch pocket former bonded in compound
6. PermaTEC ECOWRAP poured into former
7. IKO enertherm 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
11. Proprietary mansafe post



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Drawing Title:

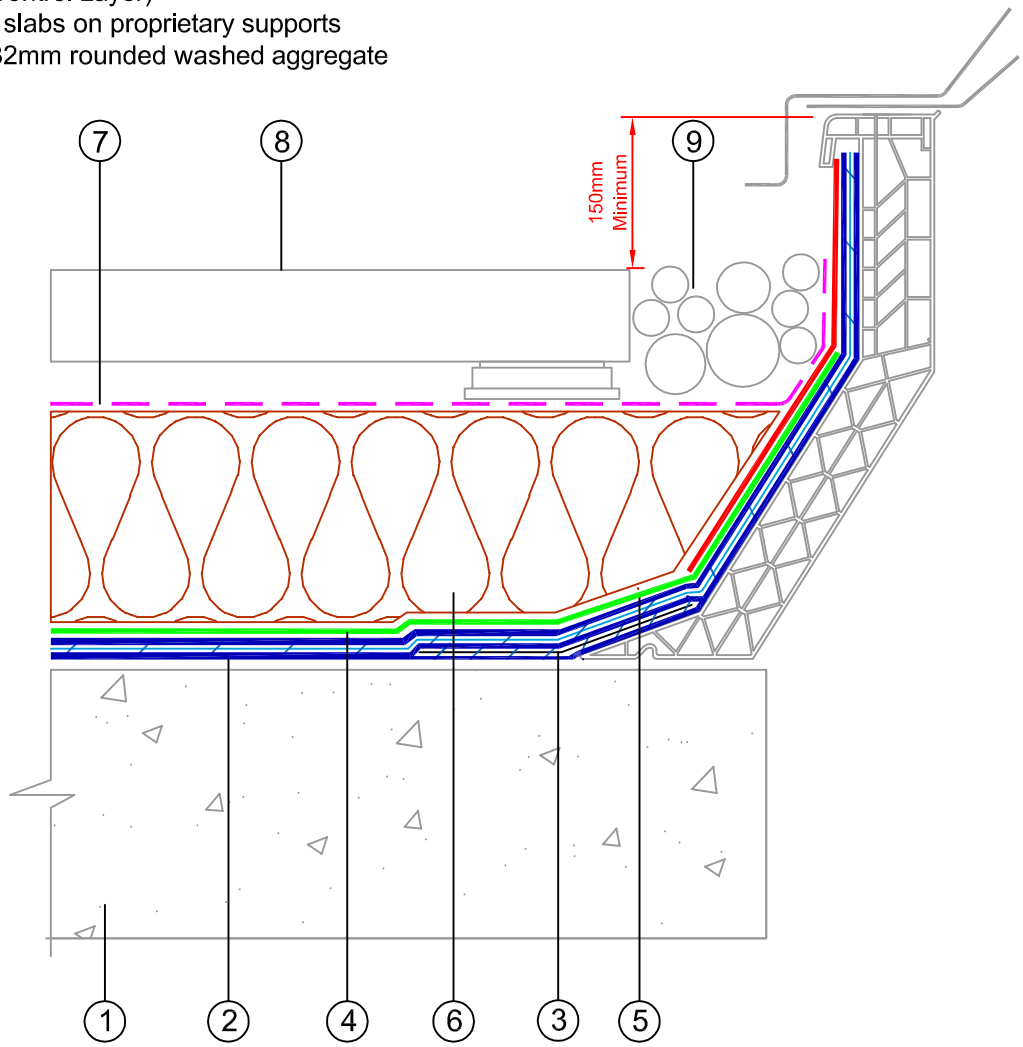
TYPICAL RETROFIT PITCHPOCKET MANSAFE DETAIL

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4F

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaFLASH-D150 detailing strip bonded in PermaTEC ECOWRAP
4. PermaGUARD-F protection layer
5. PermaGUARD-M protection layer when exposed
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 50mm layer of 16-32mm rounded washed aggregate



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Drawing Title:

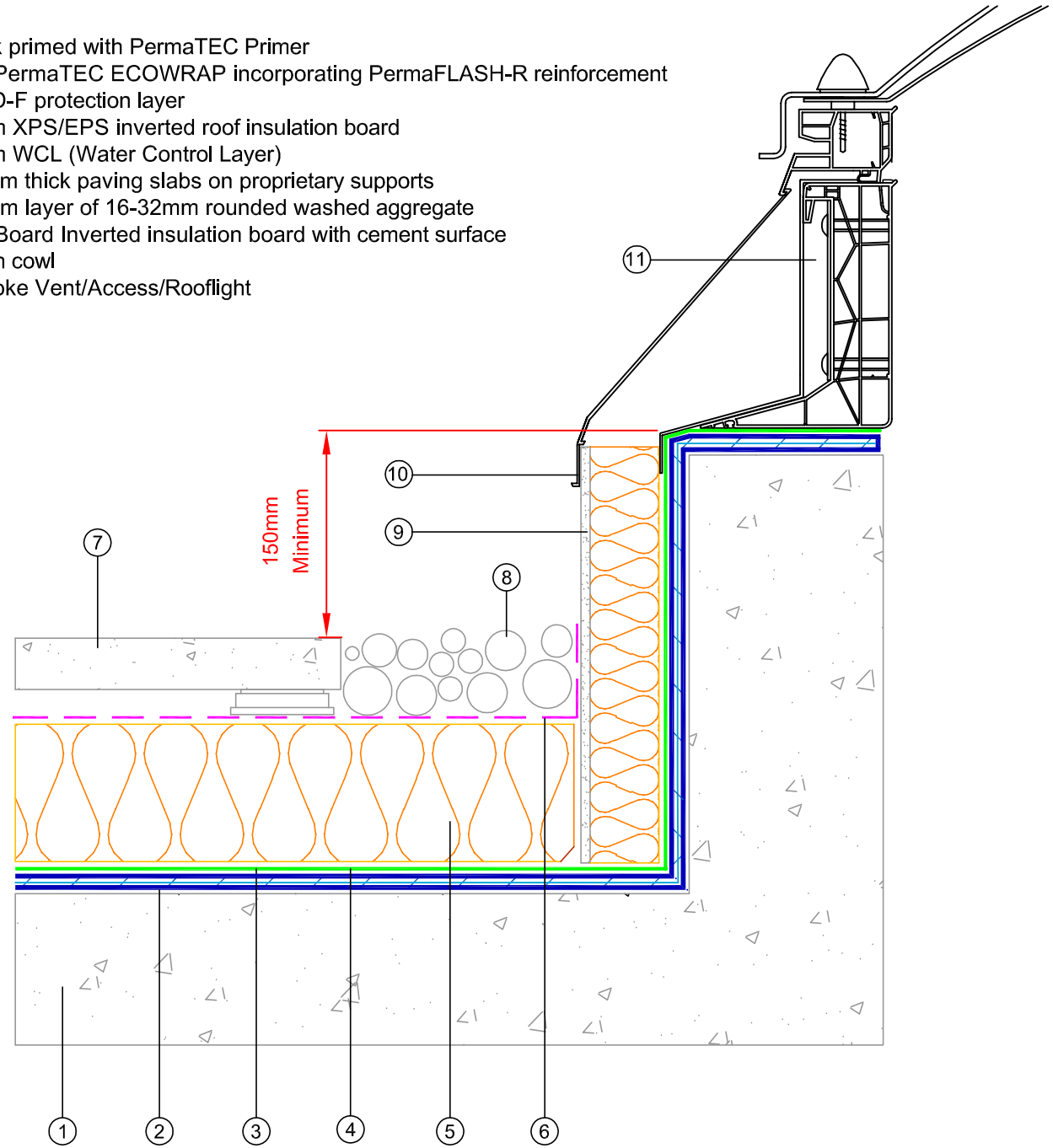
TYPICAL UPSTAND TO ROOFLIGHT/ ACCESS HATCH DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4G

Section Key

1. Concrete deck primed with PermaTEC Primer
2. Two coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer
5. IKO enertherm XPS/EPS inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. IKO Upstand Board Inverted insulation board with cement surface
10. Intregal hatch cowl
11. Superlite Smoke Vent/Access/Rooflight



Notes

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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).

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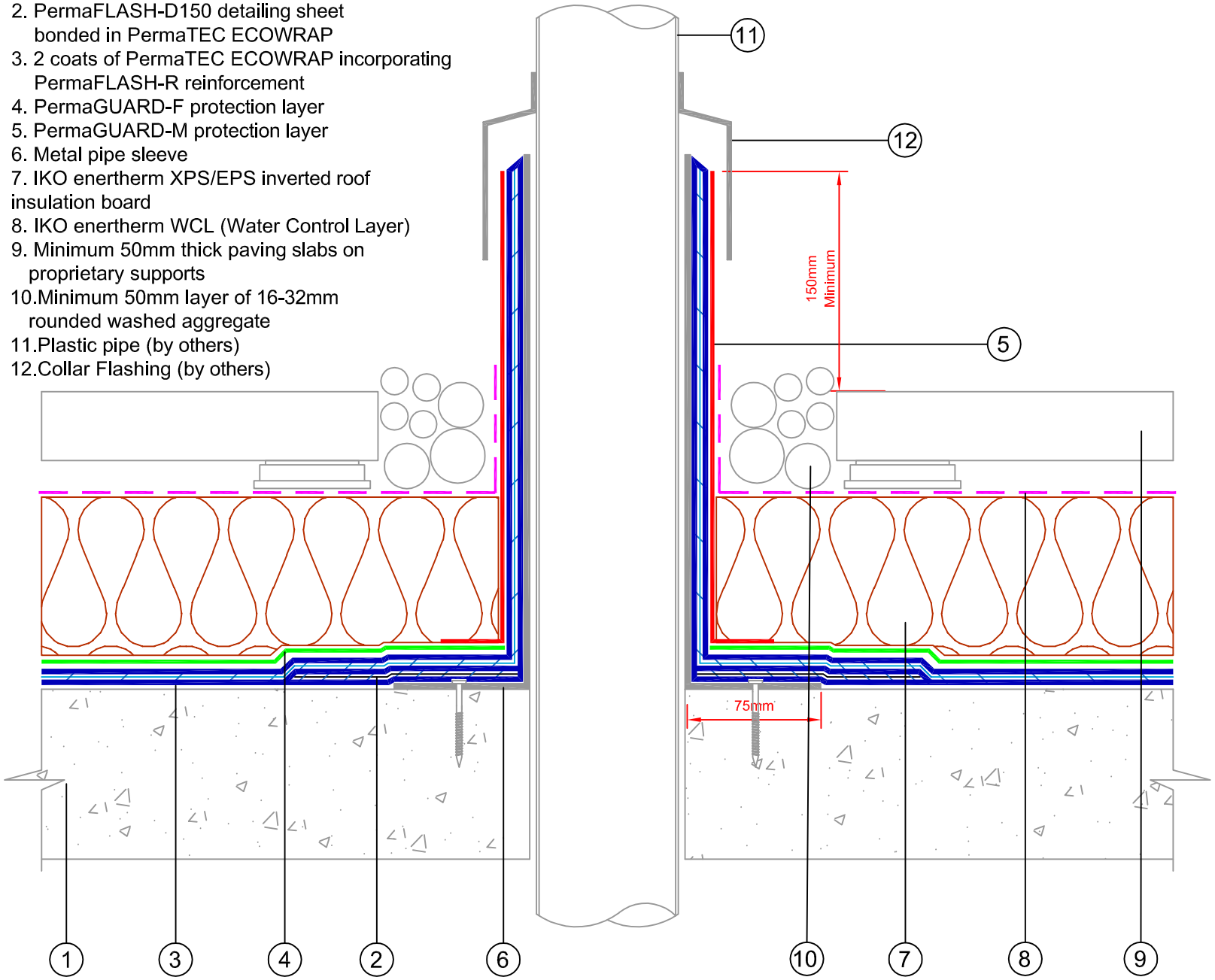
Drawing Title:
TYPICAL SMOKE VENT/ROOFLIGHT/ACCESS HATCH DETAIL (SUPERLITE)

August 2017	Scale: NTS

ME	Revision:	Sheet No: PT.4H

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing sheet bonded in PermaTEC ECOWRAP
3. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
4. PermaGUARD-F protection layer
5. PermaGUARD-M protection layer
6. Metal pipe sleeve
7. IKO enertherm 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
11. Plastic pipe (by others)
12. Collar Flashing (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.

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

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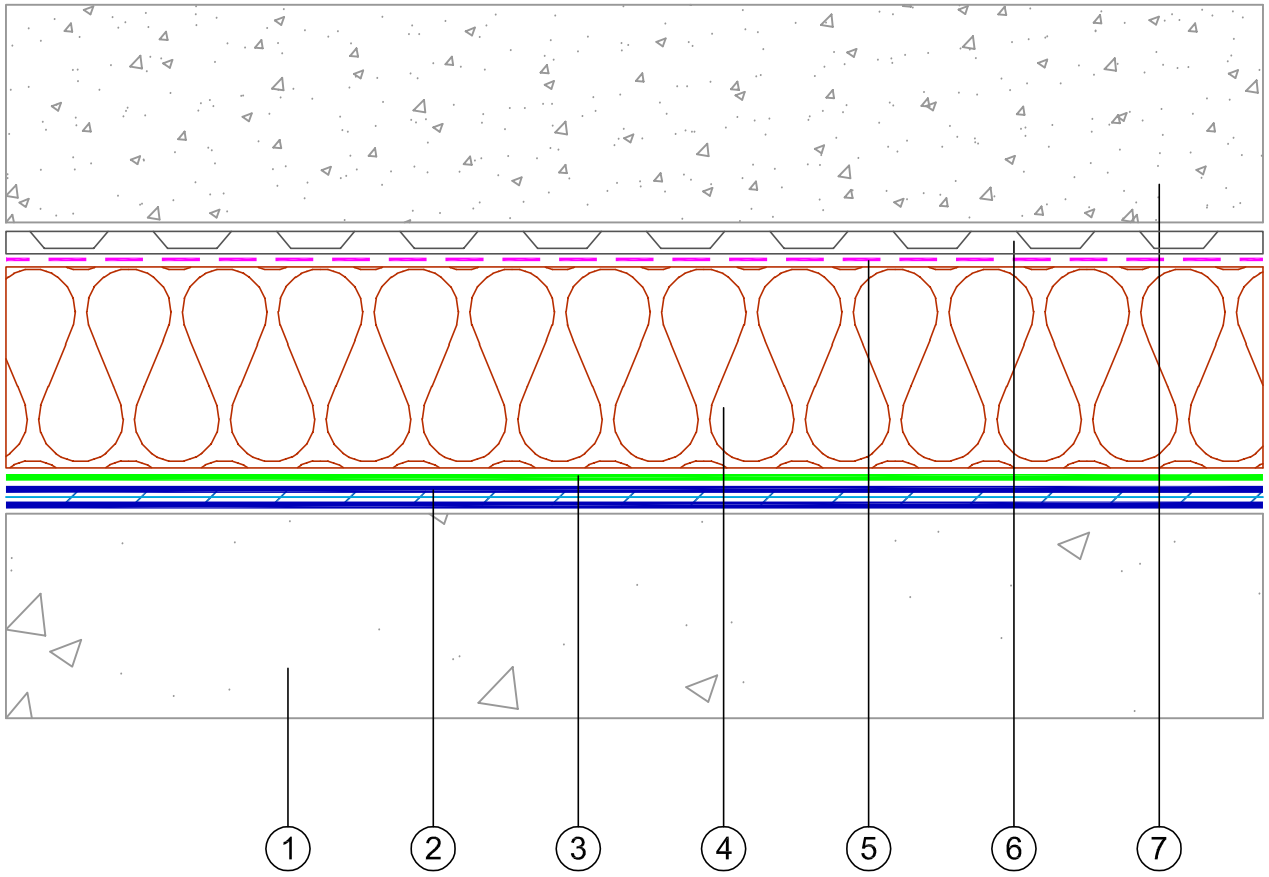
Drawing Title:
PLASTIC PIPE WITH METAL SLEEVE PENETRATION DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.4I

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 Plasdrain6 drainage layer
7. Cast concrete slab (the total loading on insulation to be confirmed by insulation manufacturer)



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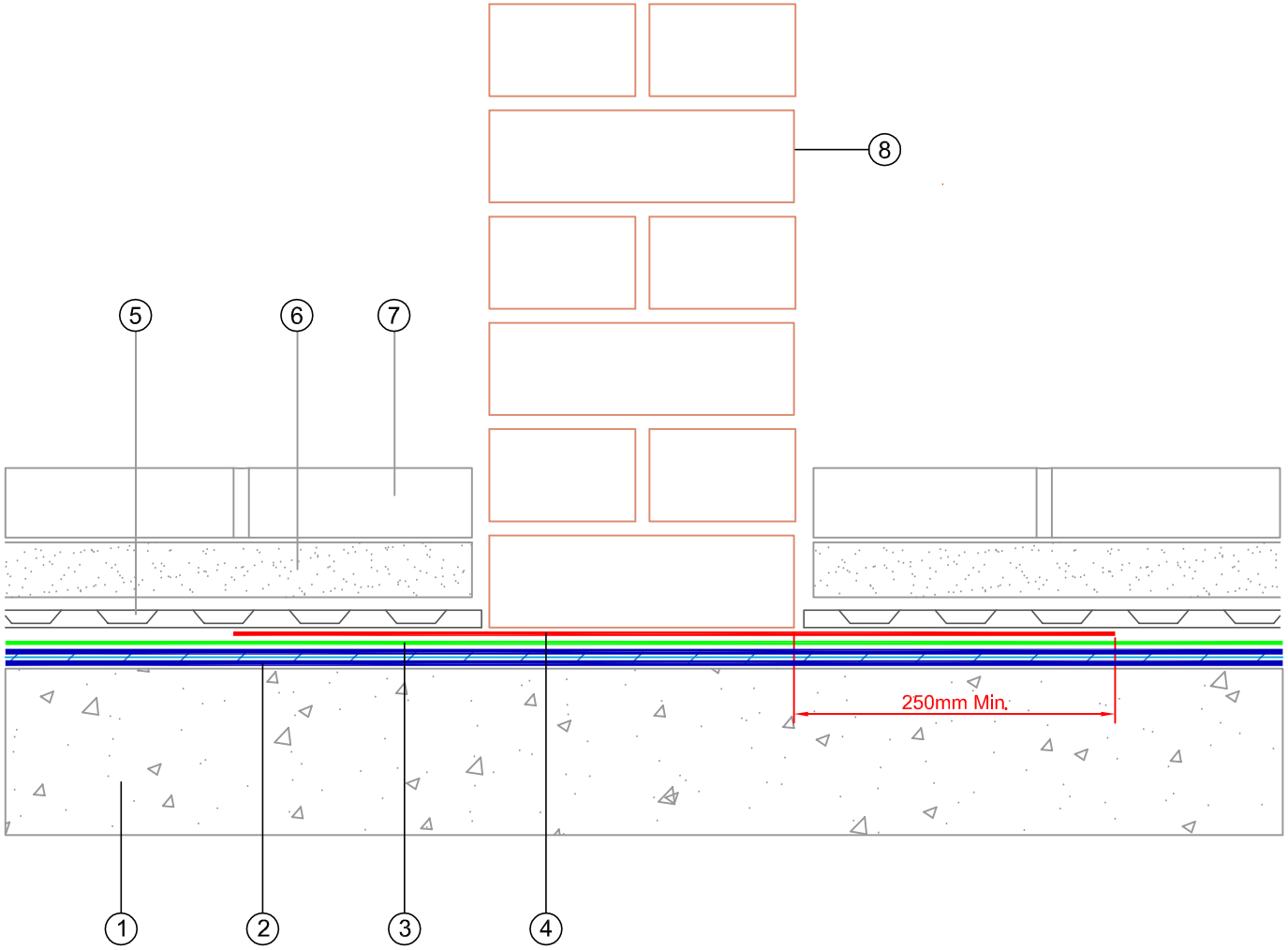
Drawing Title:
TYPICAL FLOATING CONCRETE BASE

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.5B

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. PermaGUARD-M additional protection sheet
5. IKO Plasdrain drainage layer (as specification)
6. Sand/Cement Sub-base (specified & designed by others)
7. Block paviours/ concrete slabs (specified & designed by others)
8. Brick wall built off off PermaTEC ECOWRAP (built by others)



Notes

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Drawing Title:

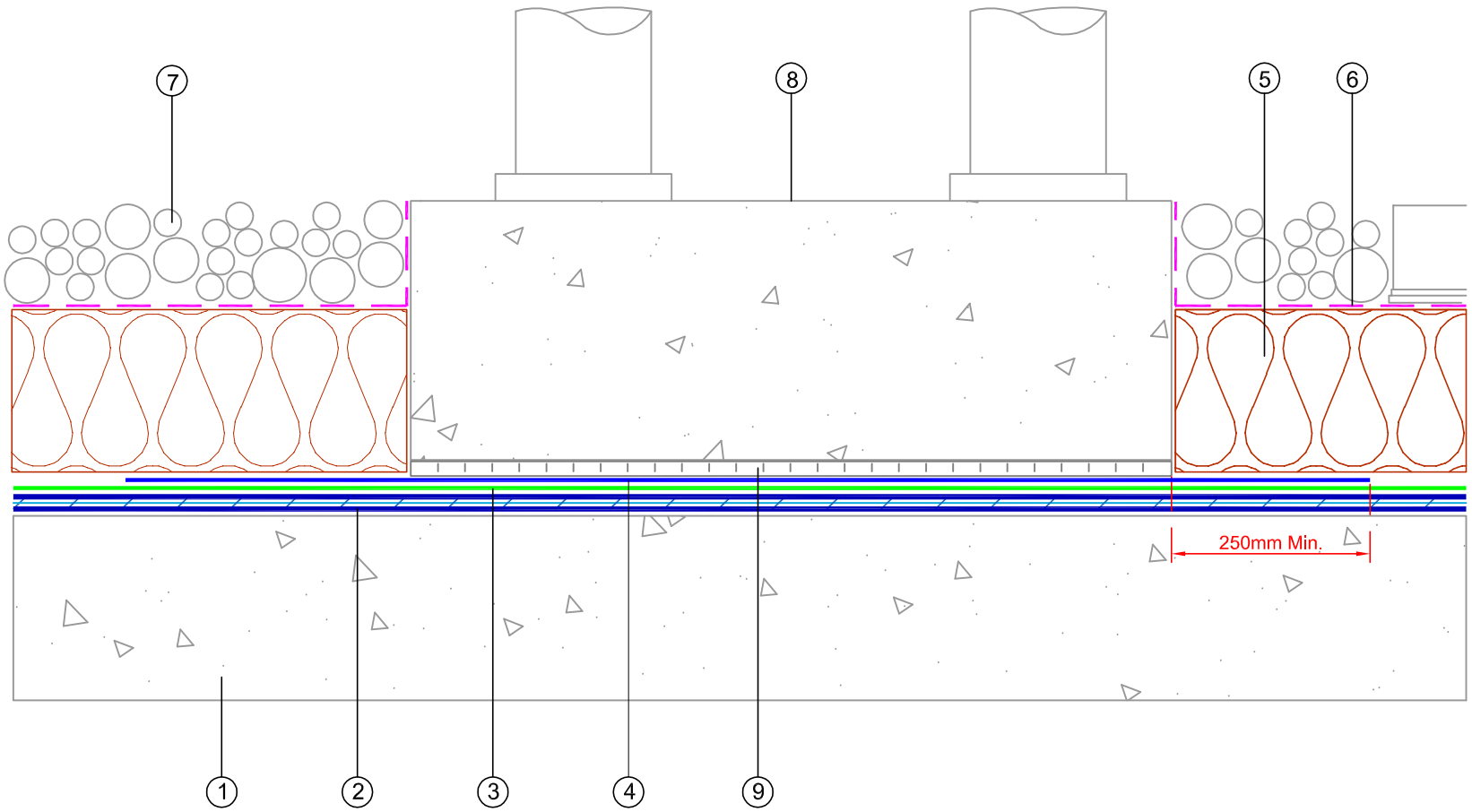
TYPICAL BRICK WALL BUILT OFF PERMATEC

May 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.5C

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. PermaGUARD-M additional protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. Concrete plinth designed by others to support rooftop plant and equipment.
9. Optional IKO Plasdrain drainage layer for cross drainage purposes (As specification)



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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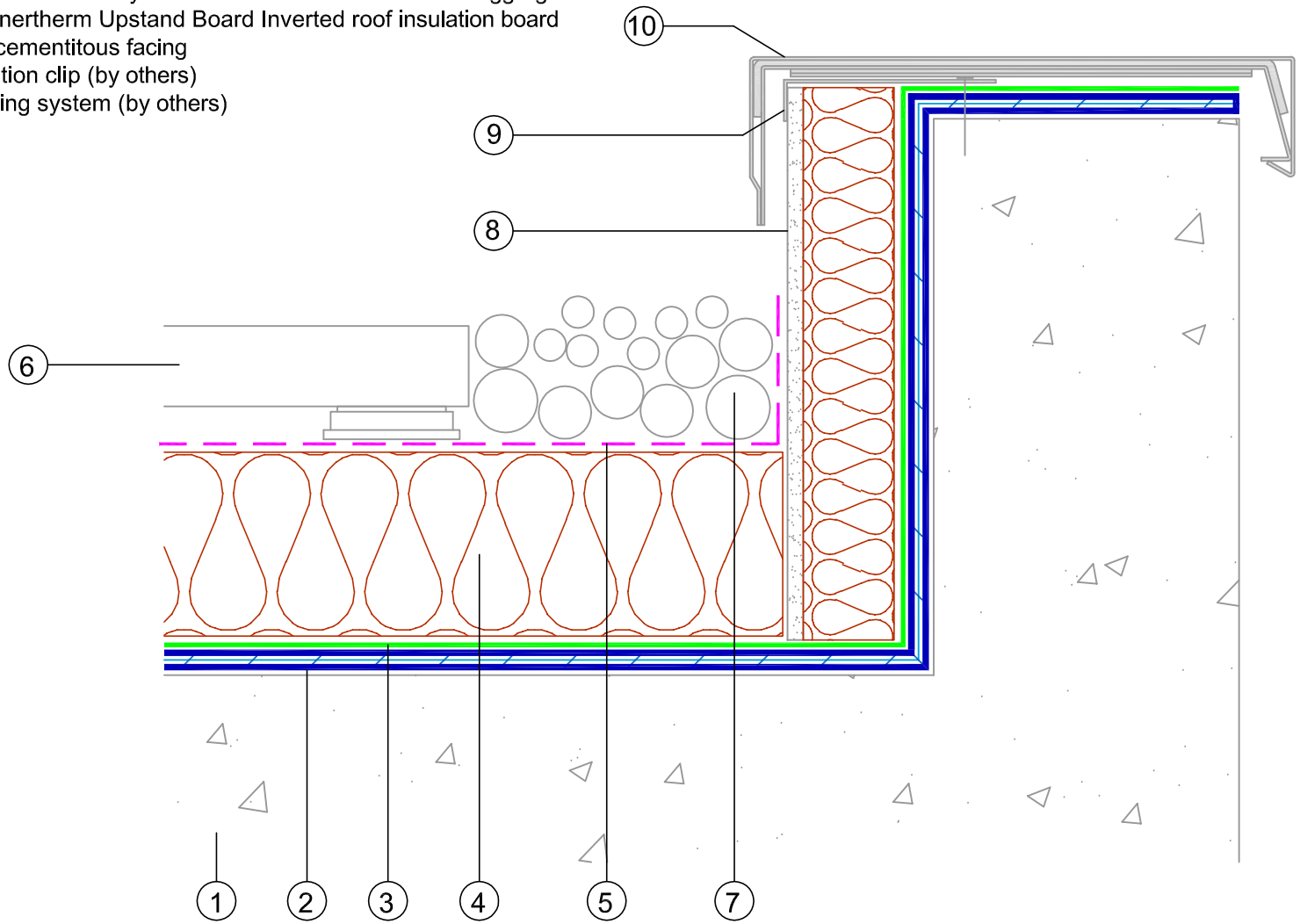
Drawing Title:
TYPICAL PLINTH BUILT OFF PERMATEC

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.5D

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 thick paving slabs on proprietary supports
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. IKO enertherm Upstand Board Inverted roof insulation board with cementitous facing
9. Retention clip (by others)
10. Capping system (by others)



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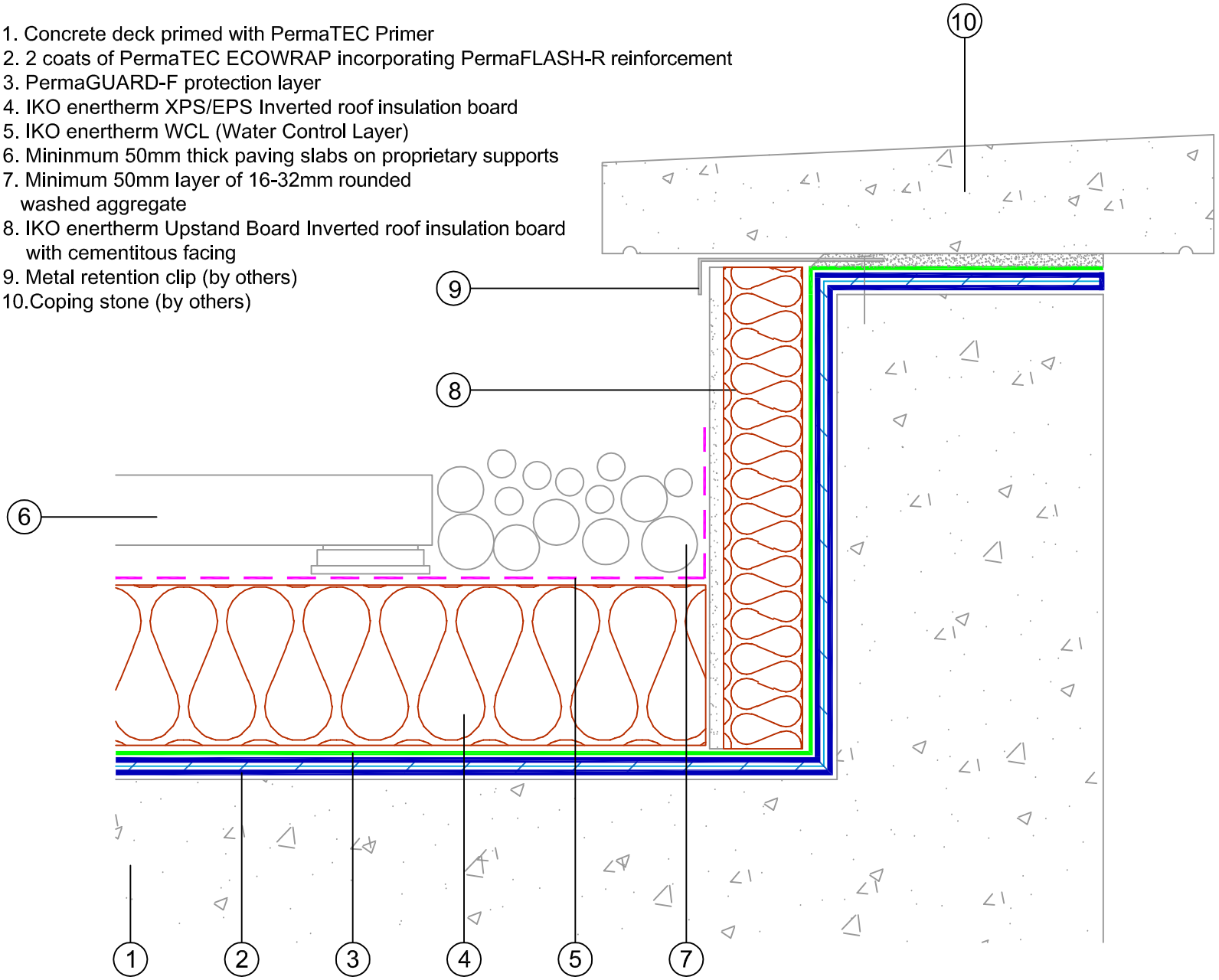
Drawing Title:
TYPICAL PARAPET WITH CAPPING

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6A

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. Mininmum 50mm thick paving slabs on proprietary supports
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. IKO enertherm Upstand Board Inverted roof insulation board with cementitous facing
9. Metal retention clip (by others)
10. Coping stone (by others)



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.

IKO permatec
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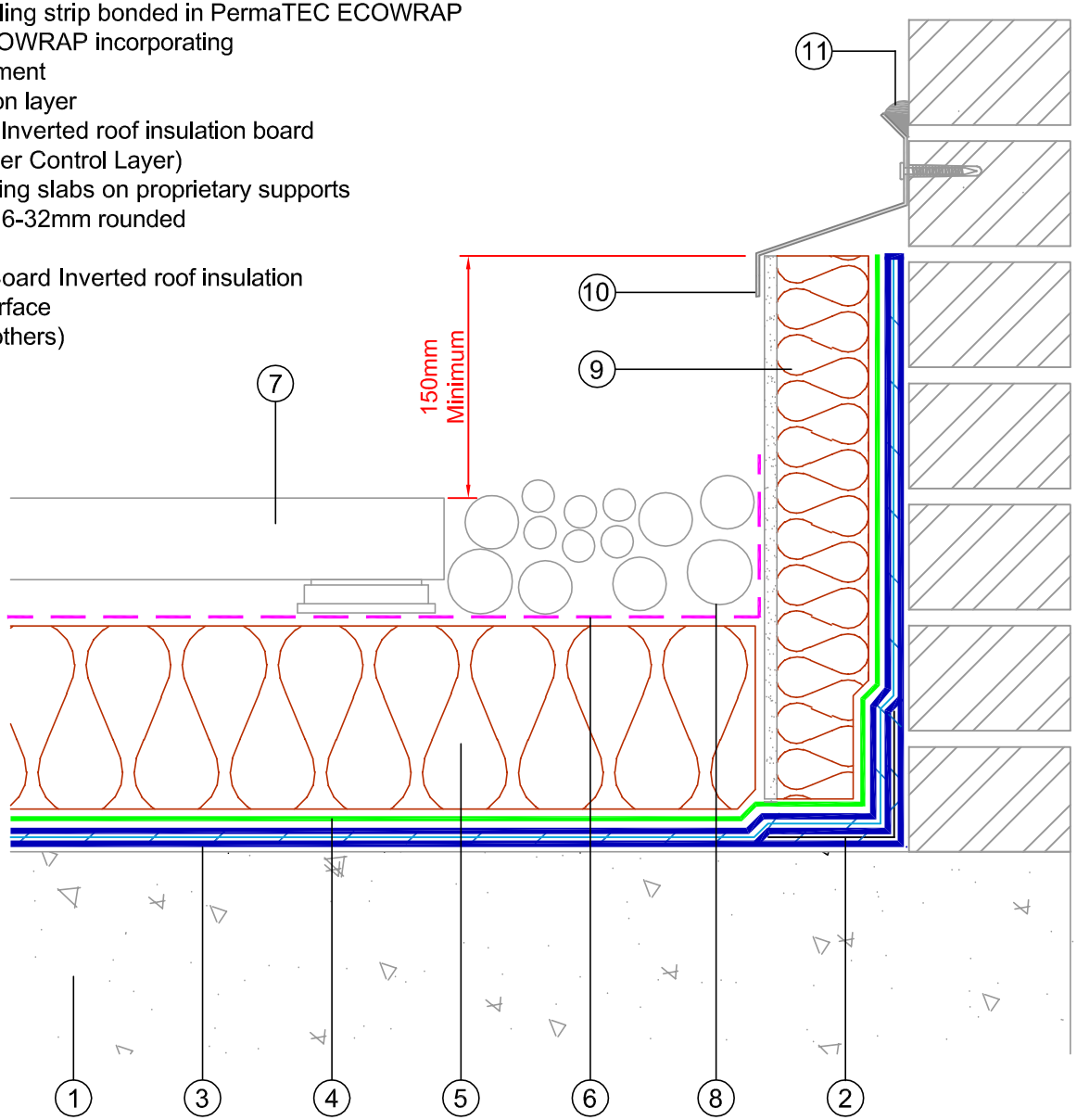
Drawing Title:
TYPICAL PARAPET WITH COPING

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6B

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing strip 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. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. IKO enertherm Upstand Board Inverted roof insulation board with cementious surface
10. Metal cover flashing (by others)
11. Sealant (by others)



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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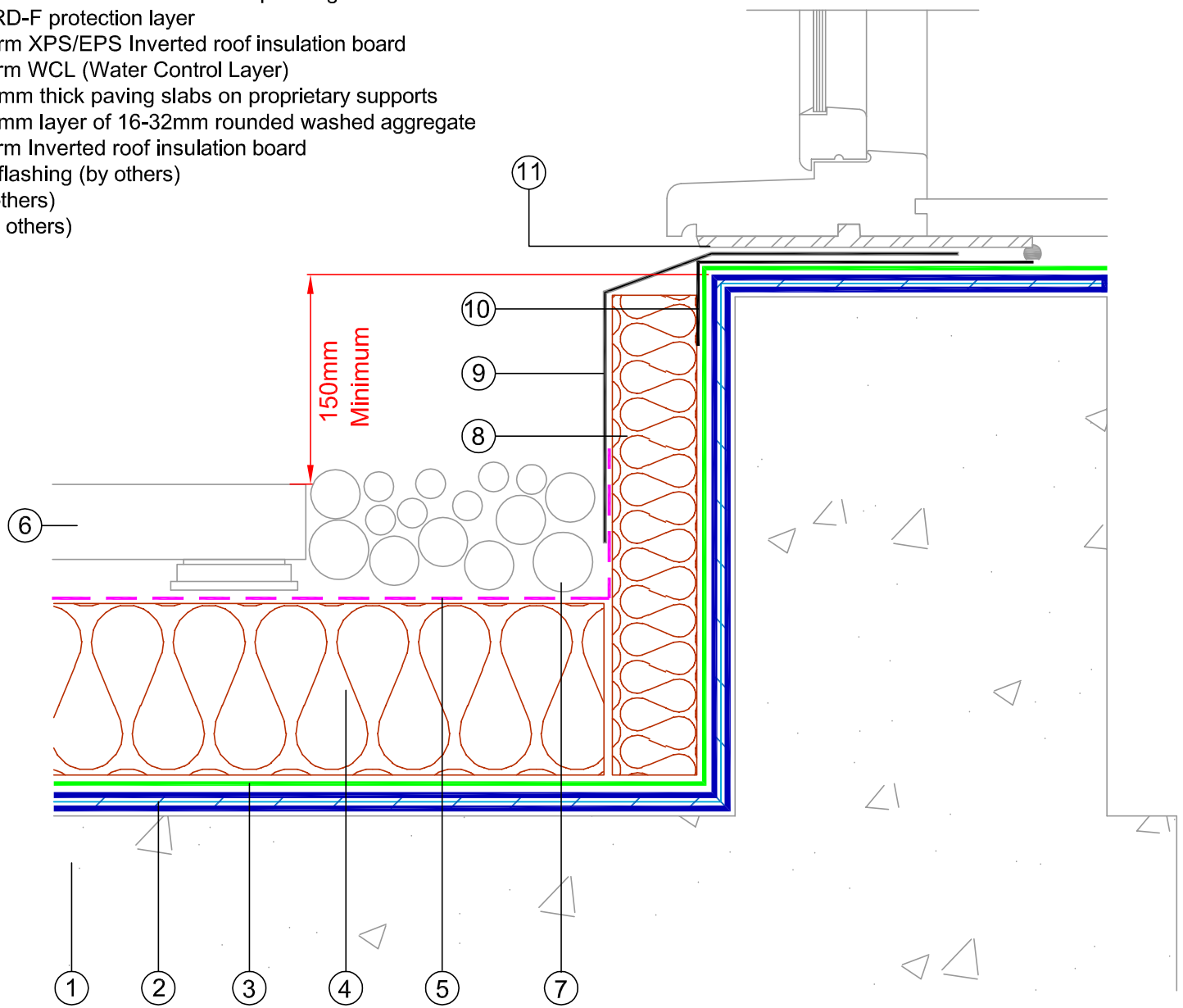
Drawing Title:
TYPICAL INSULATED UPSTAND

August 2017	Scale: NTS

ME	Revision:	Sheet No: PT.6C

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 thick paving slabs on proprietary supports
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. IKO enertherm Inverted roof insulation board
9. Metal cover flashing (by others)
10. EPDM (by others)
11. Sealant (by others)



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:

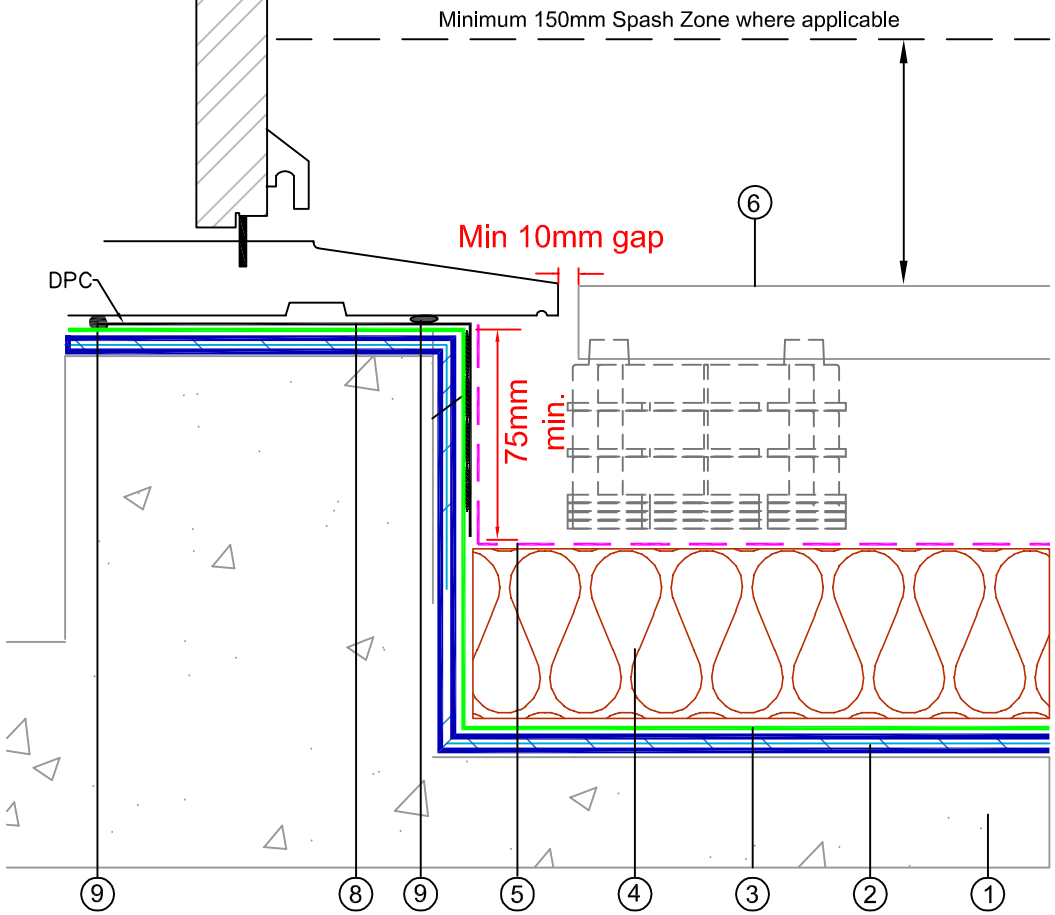
TYPICAL CILL DETAIL

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6D

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. 50mm thick paving slabs on proprietary supports
8. EPDM DPC (by others)
9. Sealant (by others)



BALCONY ACCESSIBLE THRESHOLD, UPSTAND AND DRAINAGE
(CONCRETE DECK INVERTED ROOF)

* Where door thresholds are situated that do not achieve an upstand height of 150mm above the finished waterproofing surface, such as when a level access threshold is required then the following features must be specified:

* **a door threshold with an upstand height of not more than 15mm.**
The 15mm threshold is measured at the door position. additional sloping transition elements, such as a small internal ramp and external sill may be provided either side of the upstand.

* **a door threshold with a minimum 45mm projecting sill and drip.**
The cill should have a minimum 45mm overhang and drip to shed rainwater away from the interface between the waterproofing layer and the cill and to avoid reliance on exposed joint sealents and their limited design life.

* **a balcony upstand of minimum 75mm below the underside of the threshold.**
For an inverted roof the drainage layer would be the top of the insulation and not the waterproofing layer below. If the 75mm requirement cannot be met then a proprietary drainage channel might be used but only strictly in accordance with the suppliers instructions.

* **a waterproofing layer deigned to prevent ponding and associated stagnant water.**
Waterproofing layers at zero falls are acceptable only when laid in accordance with the relevent third party accreditation.

* **an effectlve dralnage system and suitable overflow.**
The drainage arrangement should ensure that if an outlet ot downpipe becomes blocked it will not lead to flooding into the building by using one outlet and an overflow (not less then the capacity of the outlet) or two outlets connected to independent downpipes.

* **drainage gaps between any decking or paving and at balcony perimeters.**
Allow a minimum 10mm gap at the perimeter upstands and thresholds with 5 - 8mm gap between decking paving units. Spacers and supports to raised decking or paving should not obstruct the flow of rainwater to outlet(s). The position of outlets below beneath decking or paving should be clearly identifiable and accessible for maintenance.

* **a mlnlmum 150mm splash zone above the decklng or pavlng.**
The design of the wall for minimum 150mm above decking or paving should ensure that any splashing off the decking or paving does not reach any part of the wall that could be adversly affected by the moisture. This may be achieved by the use of an impervious wall finish/cladding or an extension of the balcony waterproofing layer to form an upstand with cover flashing and cavity trays if required.

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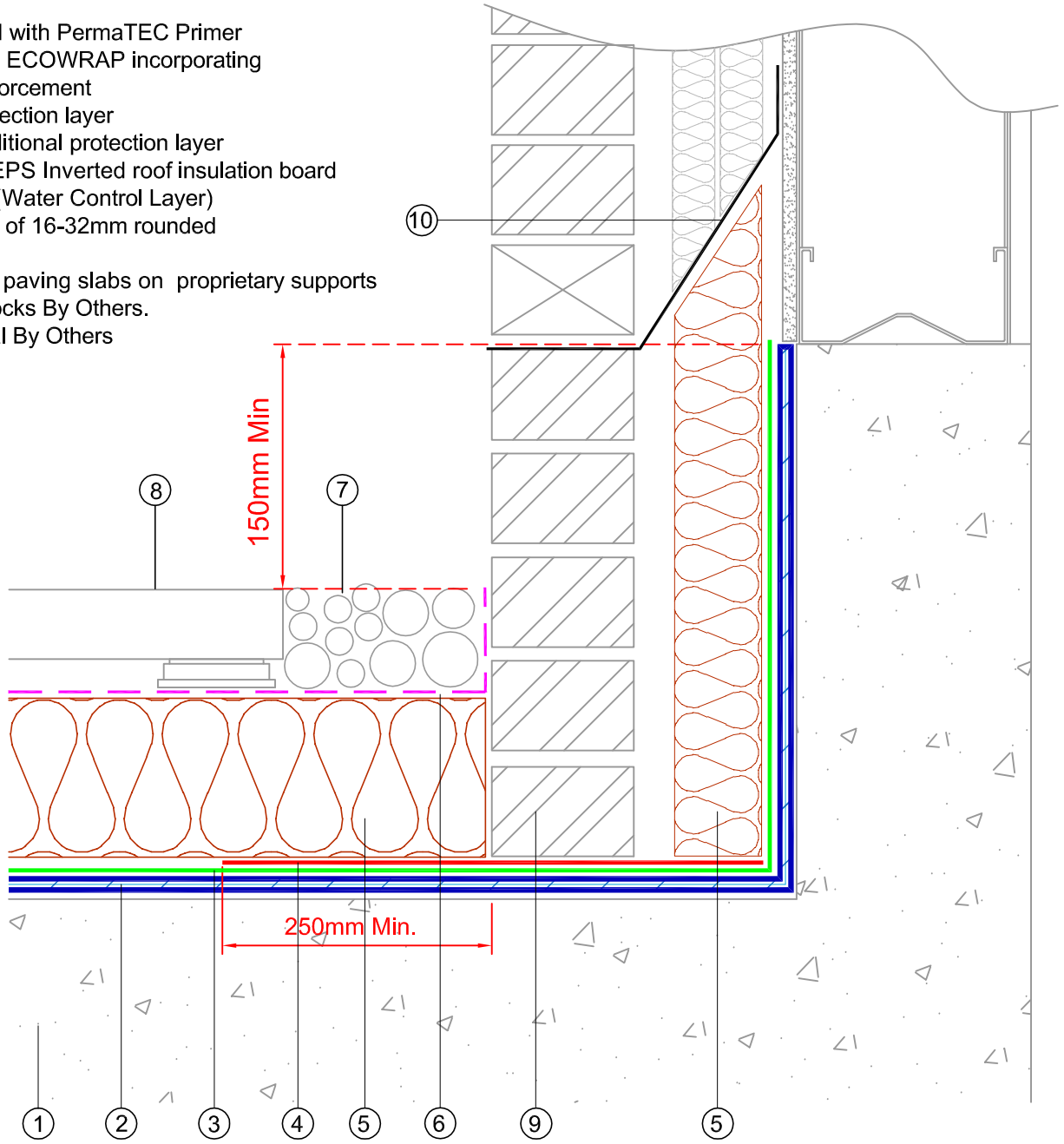
Drawing Title:
TYPICAL LEVEL ACCESS THRESHOLD

May 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6E

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. PermaGUARD-M additional protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. Minimum 50mm thick paving slabs on proprietary supports
9. Building brickwork/blocks By Others.
10. Hyload DPC or equal 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.

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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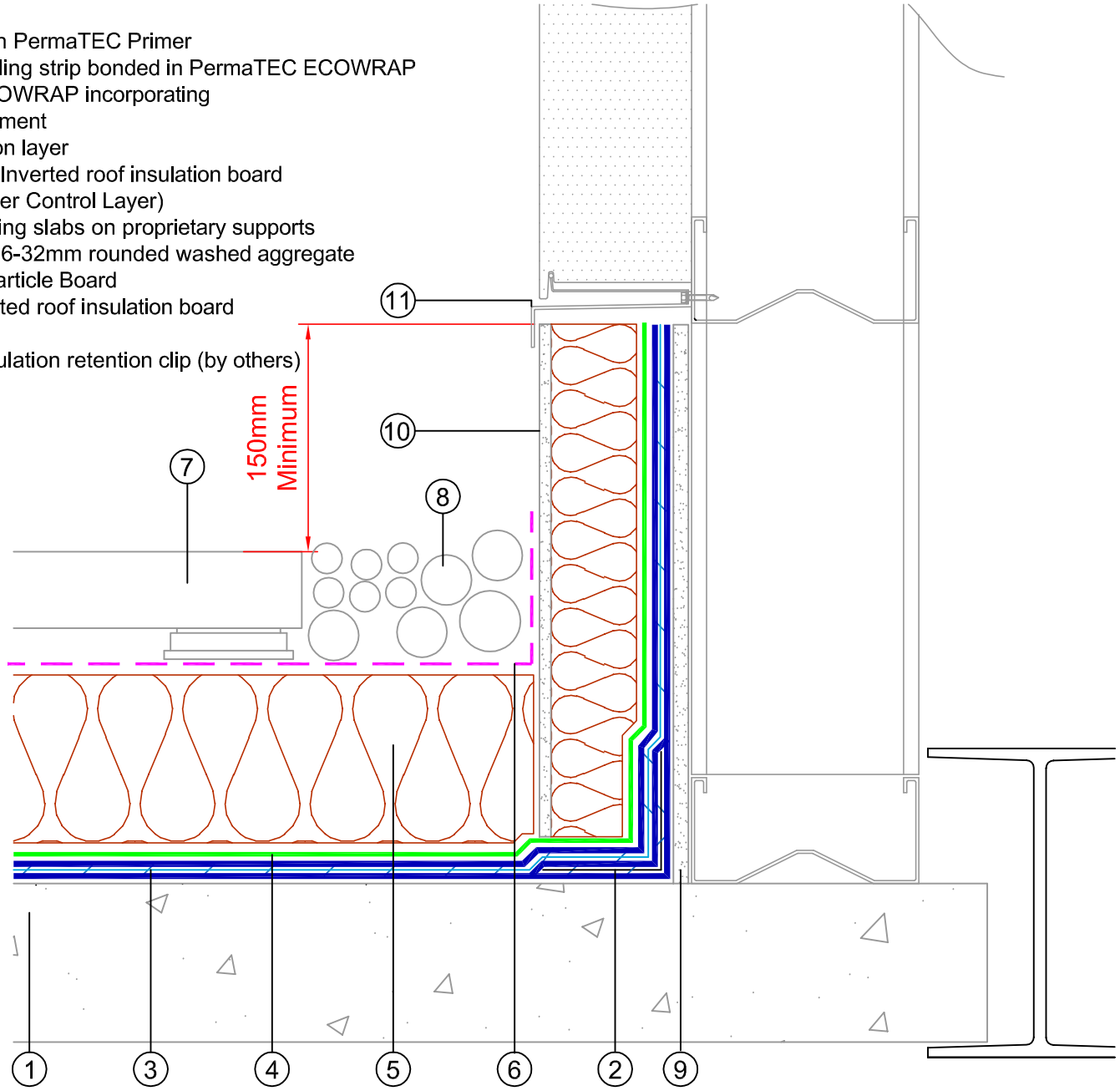
Drawing Title:
TYPICAL UPSTAND BEHIND BRICKWORK

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6F

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing strip 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. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. 12mm Cement Bonded Particle Board
10. IKO Upstand Board Inverted roof insulation board with cementious facing
11. Metal cover flashing, insulation retention clip (by others)



Notes

Wind Uplift

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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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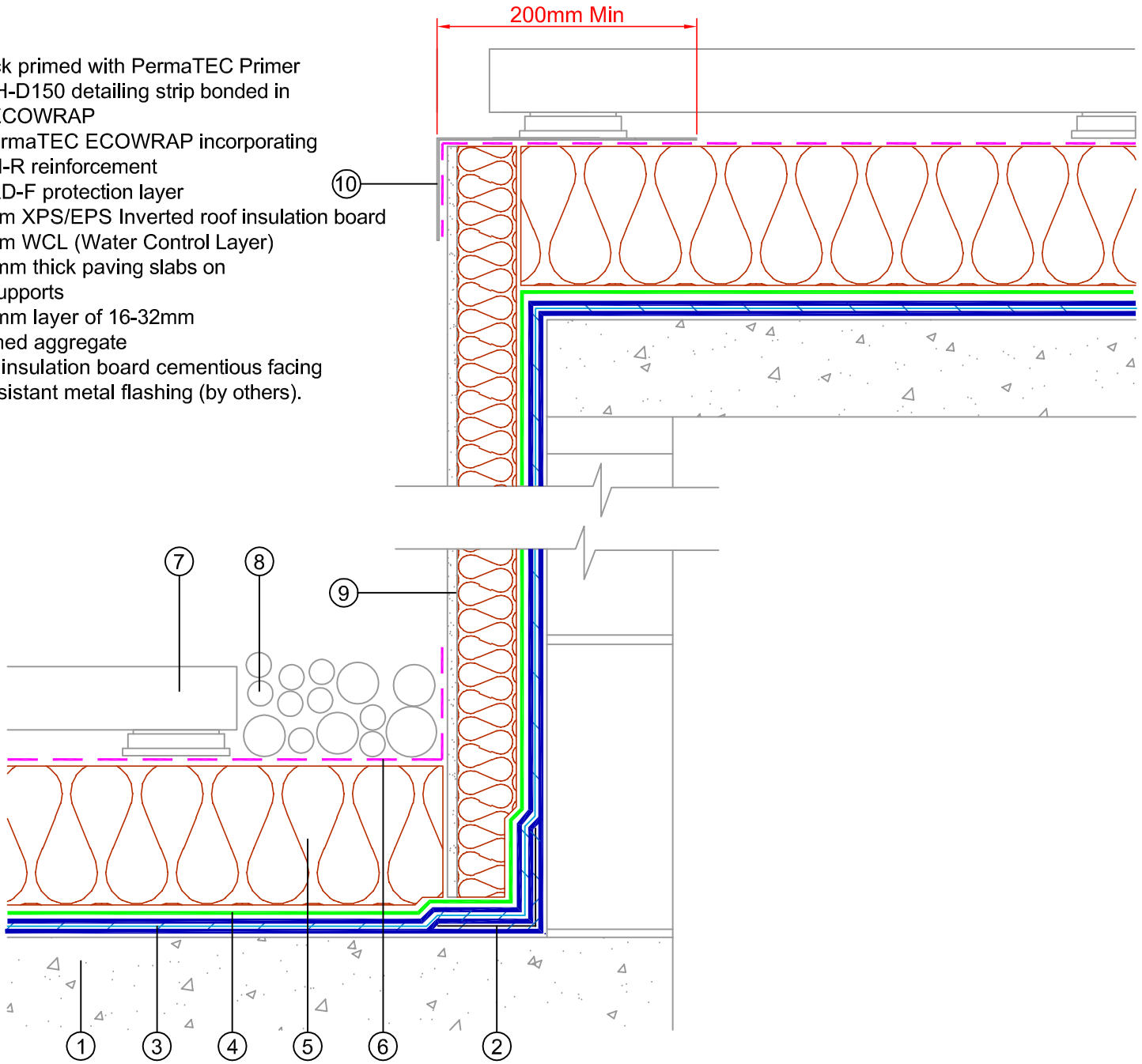
Drawing Title:
TYPICAL UPSTAND TO METSEC WALL

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6G

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing strip 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. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. Inverted roof insulation board cementious facing
10. Corrosive resistant metal flashing (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.

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:

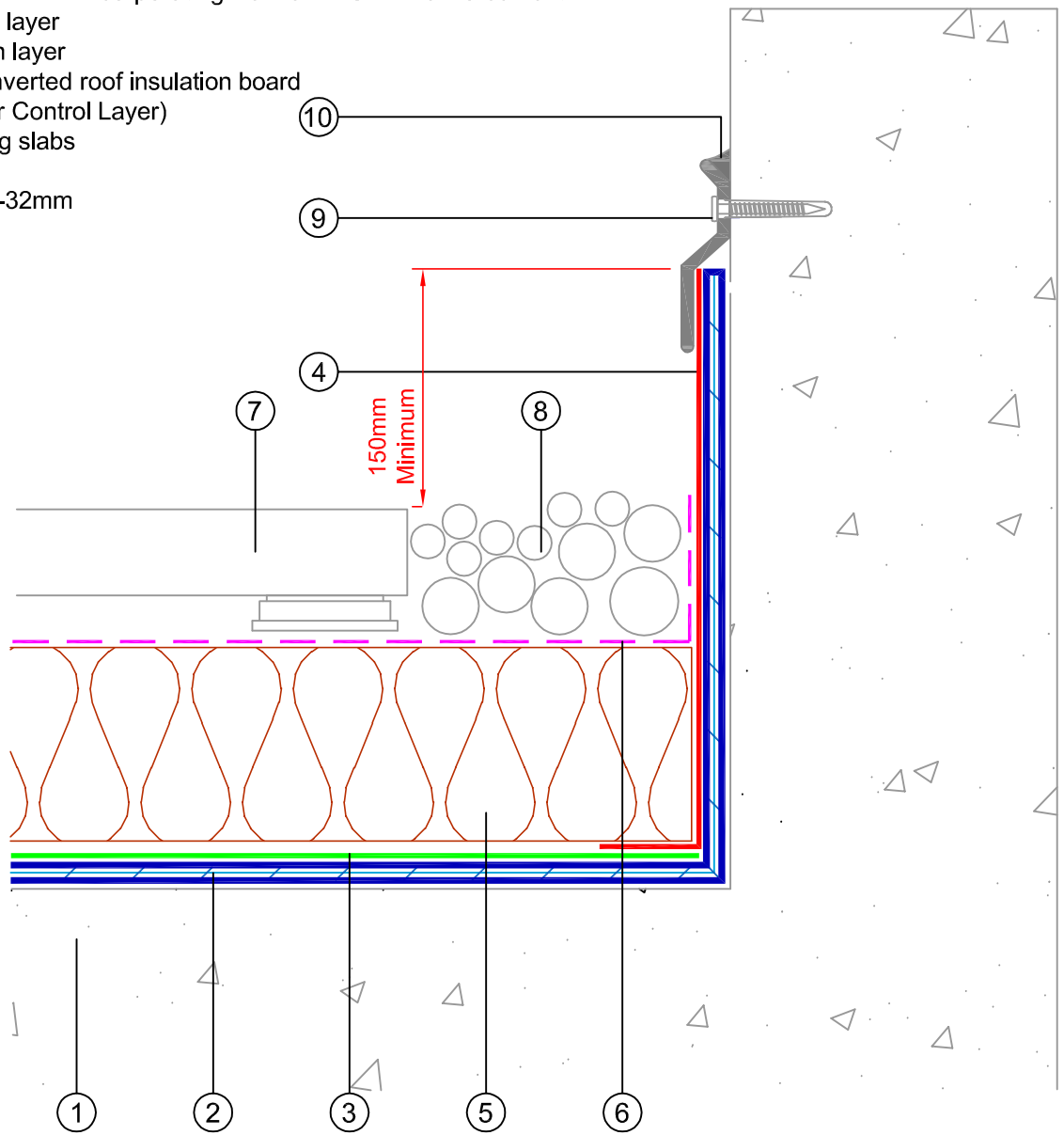
TYPICAL INSULATED CHANGE IN LEVEL

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT.6H

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. PermaGUARD-M protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. Termination bar (by others)
10. Sealant (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.

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:

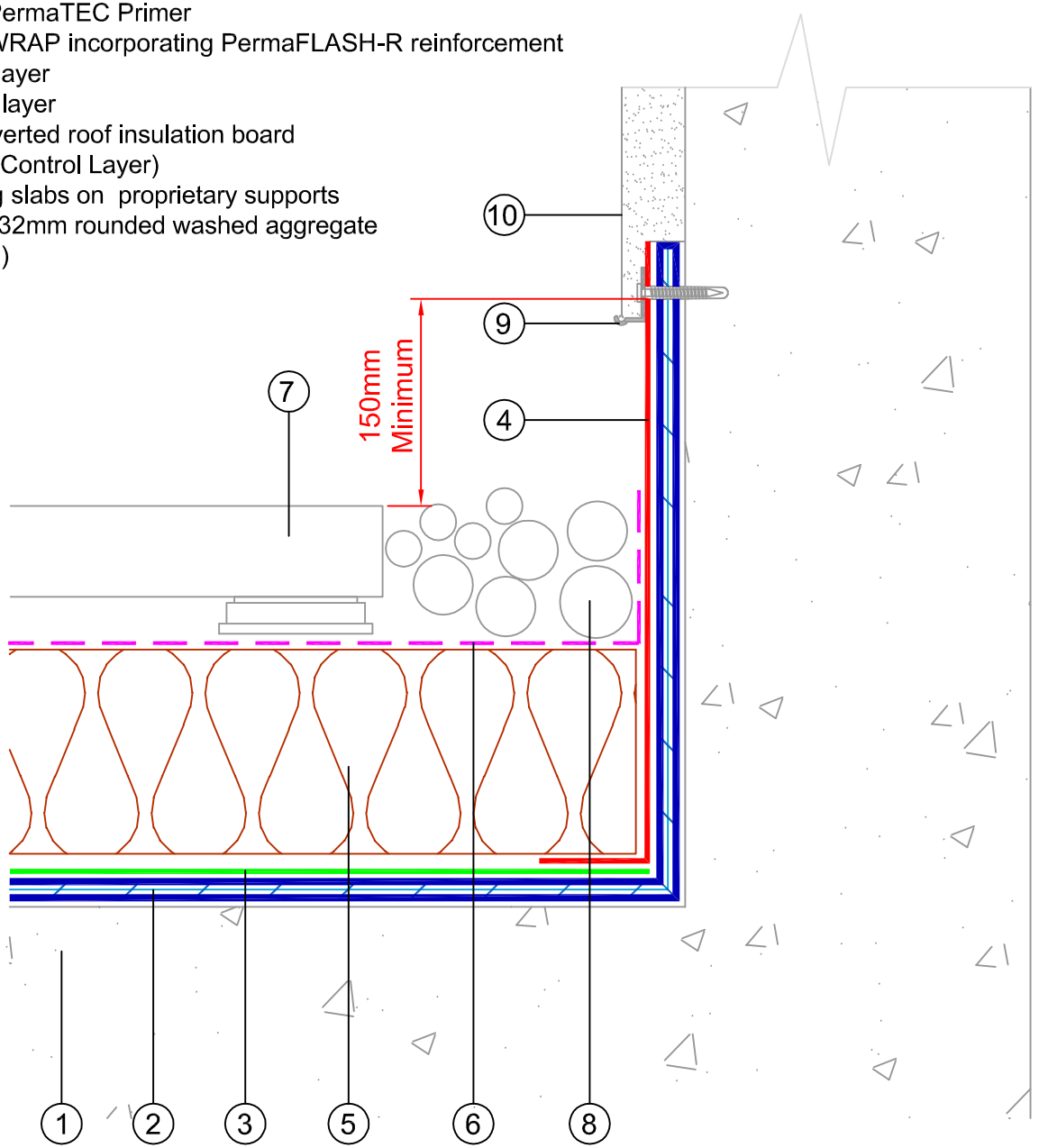
TYPICAL UNINSULATED UPSTAND WITH TERMINATION BAR

August 2017	Scale: NTS

ME	Revision:	Sheet No: PT.6I

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. PermaGUARD-M protection layer
5. IKO enertherm XPS/EPS Inverted roof insulation board
6. IKO enertherm WCL (Water Control Layer)
7. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. Render stop bead (by others)
10. Surface render (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.

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

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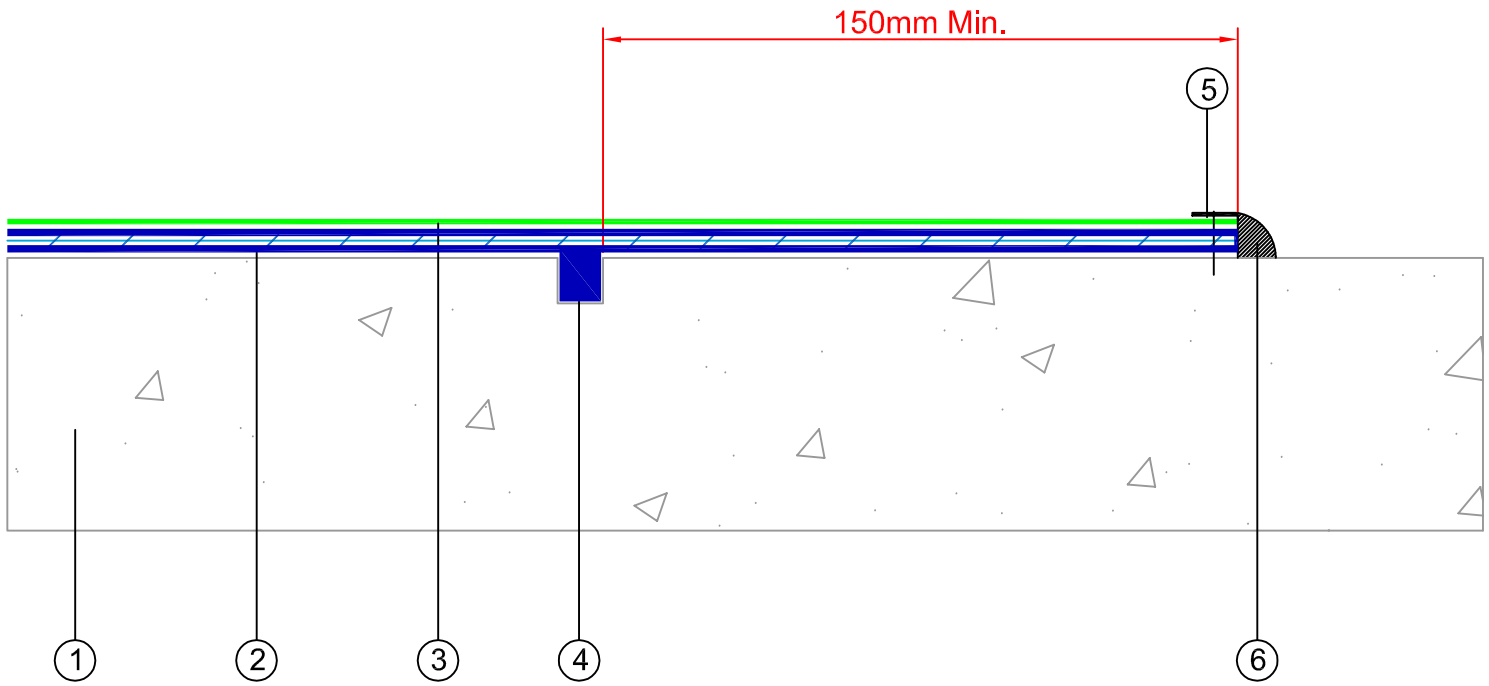
Drawing Title:
TYPICAL RENDERED UPSTAND DETAIL

August 2017	Scale: NTS

ME	Revision:	Sheet No: PT.6J

Section Key

1. Concrete deck primed with PermaTEC Primer
2. 2 coats of PermaTEC ECOWRAP incorporating PermaFLASH-R reinforcement
3. PermaGUARD-F protection layer (PermaGUARD-M if to be left exposed to UV)
4. 25 x 25mm cut filled with PermaTEC ECOWRAP
5. Metal termination bar fixed at 300mm CRS (by others)
6. Bitumen compatible sealant (by others)



Notes

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Drawing Title:

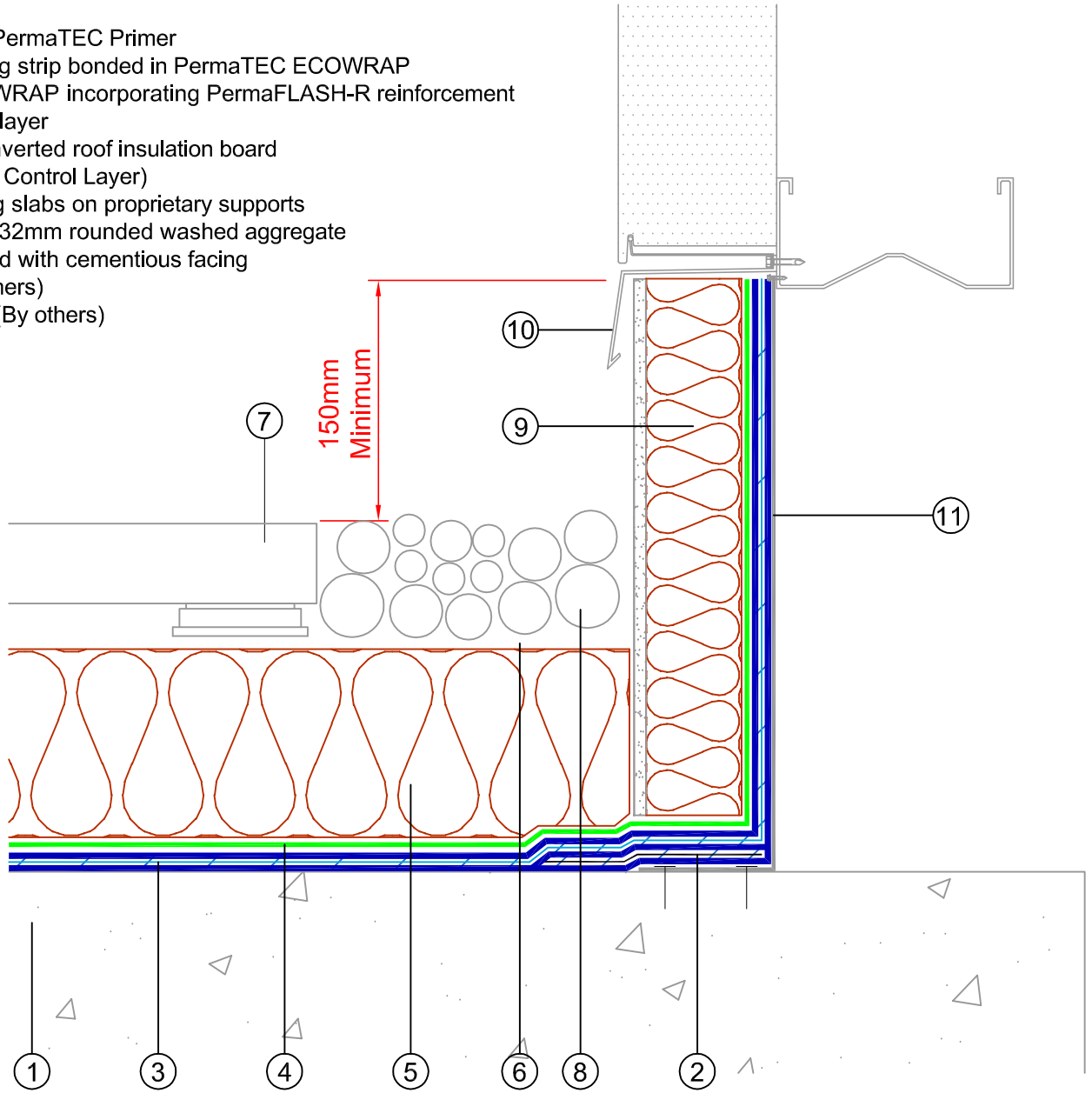
HORIZONTAL EDGE TERMINATION

May 2015	Scale: NTS

ME	Revision:	Sheet No: PT.6K

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing strip 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. Minimum 50mm thick paving slabs on proprietary supports
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. Inverted roof insulation board with cementious facing
10. Metal cover flashing (by others)
11. Galvanised Metal Closure (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.

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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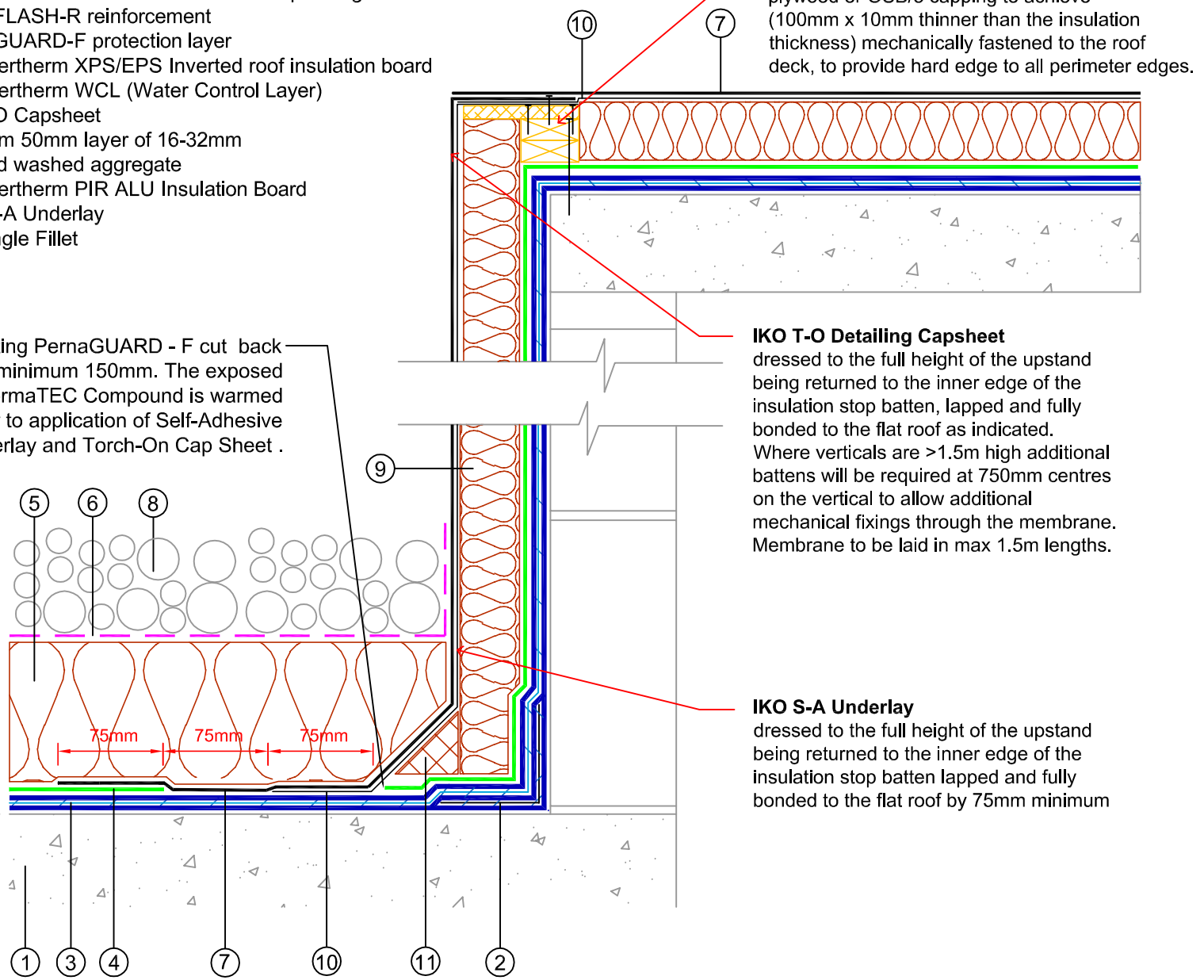
Drawing Title:
TYPICAL METAL ANGLED CLOSURE TO UPSTAND

August 2017	Scale: NTS

	Revision:	Sheet No:
ME		PT.6L

Section Key

1. Concrete deck primed with PermaTEC Primer
2. PermaFLASH-D150 detailing strip 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. IKO T-O Capsheet
8. Minimum 50mm layer of 16-32mm rounded washed aggregate
9. IKO Enertherm PIR ALU Insulation Board
10. IKO S-A Underlay
11. IKO Angle Fillet



Insulation stop batten with 18mm x 100mm plywood or OSB/3 capping to achieve (100mm x 10mm thinner than the insulation thickness) mechanically fastened to the roof deck, to provide hard edge to all perimeter edges.

Existing PernaGUARD - F cut back minimum 150mm. The exposed PermaTEC Compound is warmed up prior to application of Self-Adhesive underlay and Torch-On Cap Sheet .

IKO T-O Detailing Capsheet
dressed to the full height of the upstand being returned to the inner edge of the insulation stop batten, lapped and fully bonded to the flat roof as indicated. Where verticals are >1.5m high additional battens will be required at 750mm centres on the vertical to allow additional mechanical fixings through the membrane. Membrane to be laid in max 1.5m lengths.

IKO S-A Underlay
dressed to the full height of the upstand being returned to the inner edge of the insulation stop batten lapped and fully bonded to the flat roof by 75mm minimum

Notes

Wind Uplift

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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:

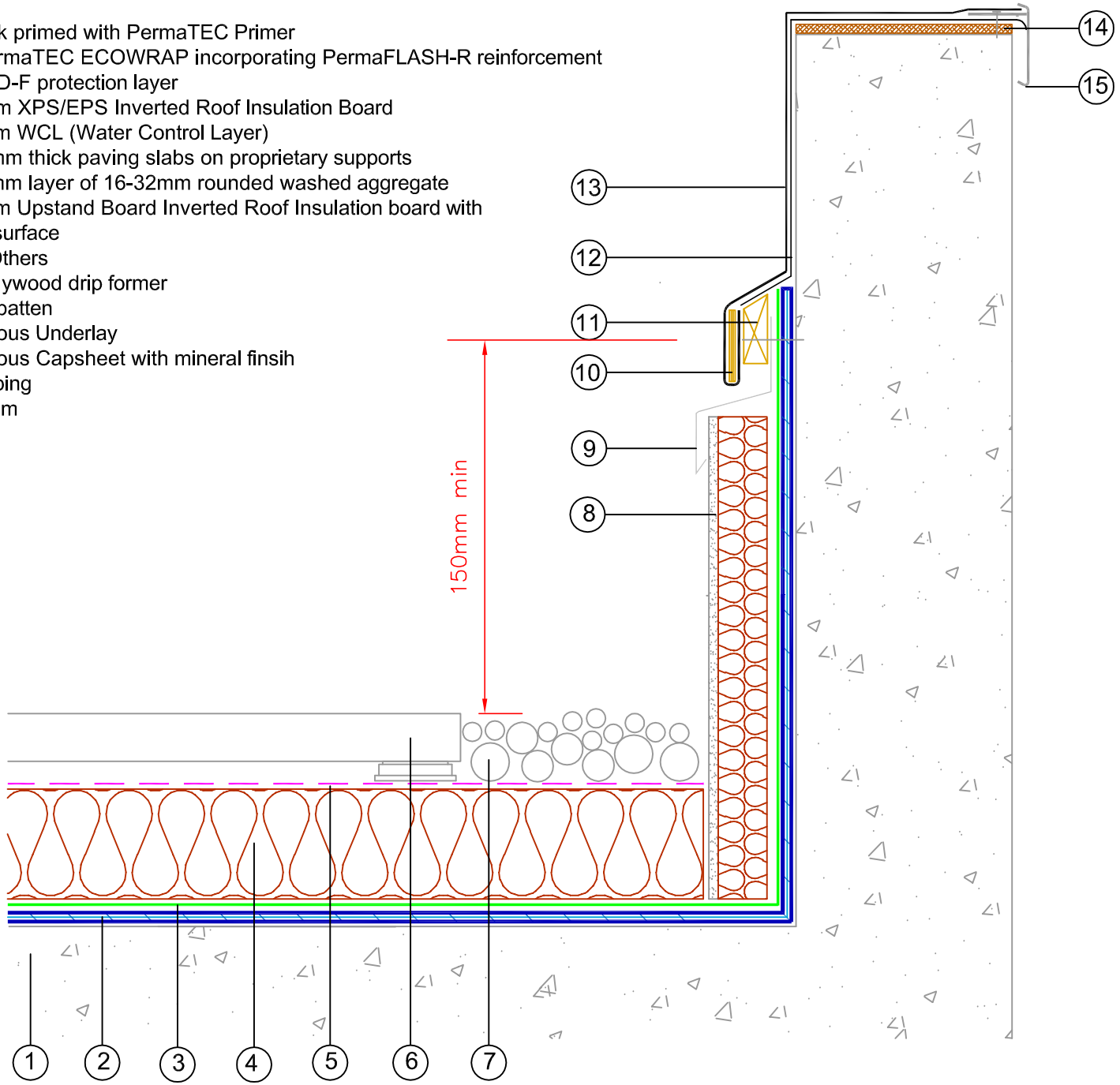
TYPICAL WARM ROOF LIFT OVERUN JOIN TO WARM ROOF BUR

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME	B	PT.6S

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 thick paving slabs on proprietary supports
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. IKO enertherm Upstand Board Inverted Roof Insulation board with cementitious surface
9. Flashing by Others
10. 6mm thick plywood drip former
11. Timber drip batten
12. IKO Bituminous Underlay
13. IKO Bituminous Capsheet with mineral finsih
14. Timber Capping
15. IKO GRP Trim



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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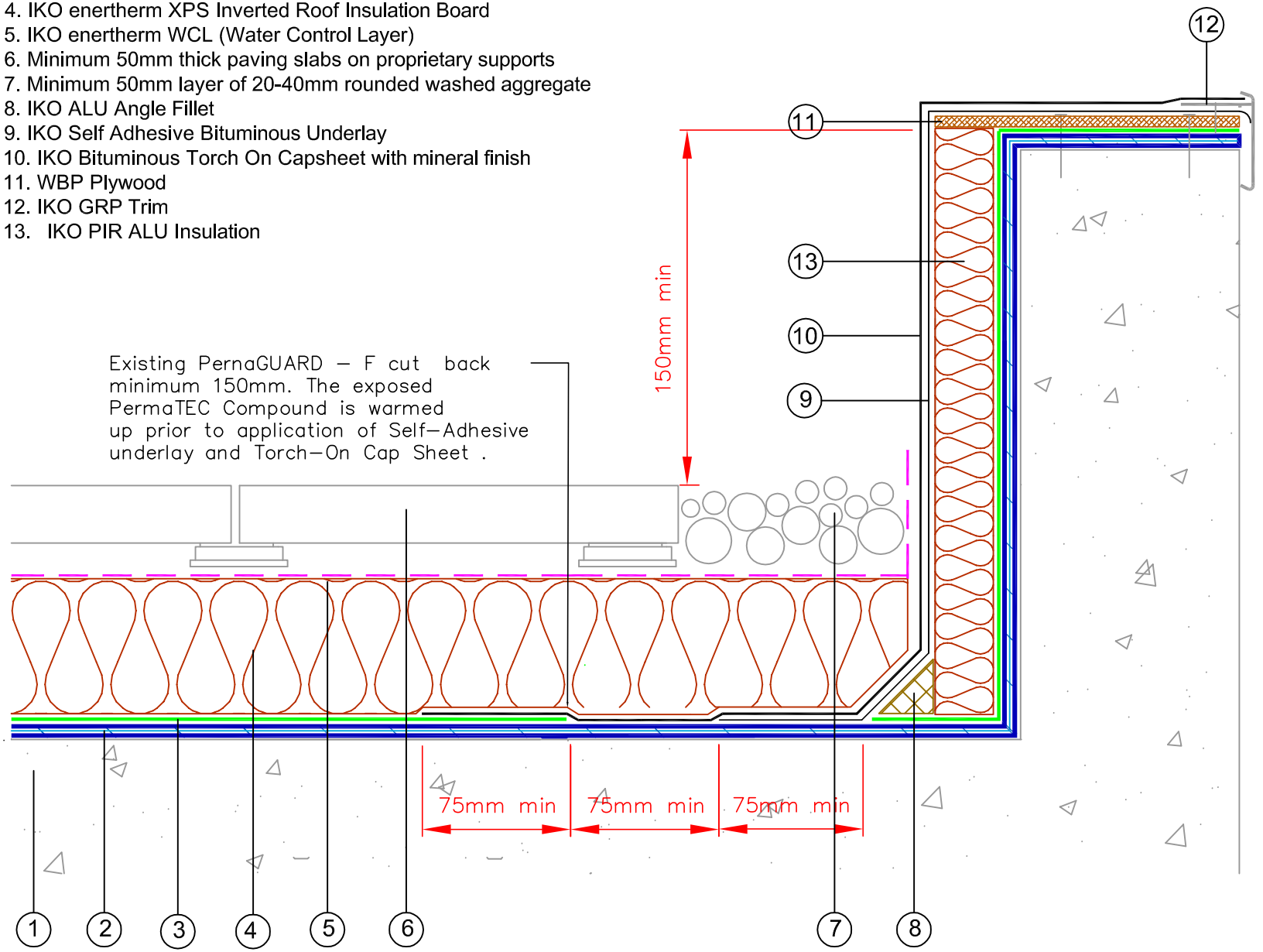
Drawing Title:
Typical BUR Parapet Detail

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.7A

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 Inverted Roof Insulation Board
5. IKO enertherm WCL (Water Control Layer)
6. Minimum 50mm thick paving slabs on proprietary supports
7. Minimum 50mm layer of 20-40mm rounded washed aggregate
8. IKO ALU Angle Fillet
9. IKO Self Adhesive Bituminous Underlay
10. IKO Bituminous Torch On Capsheet with mineral finish
11. WBP Plywood
12. IKO GRP Trim
13. IKO PIR ALU Insulation



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 20 - 40mm 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.

If the building is at the coast it is common to specify Minimum 60mm depth of 40 to 60mm rounded ballast to:
1/. Reduce wind scour.
2/. Reduce risk of seagulls picking up and dropping the ballast.

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Hot Melt Waterproofing Systems
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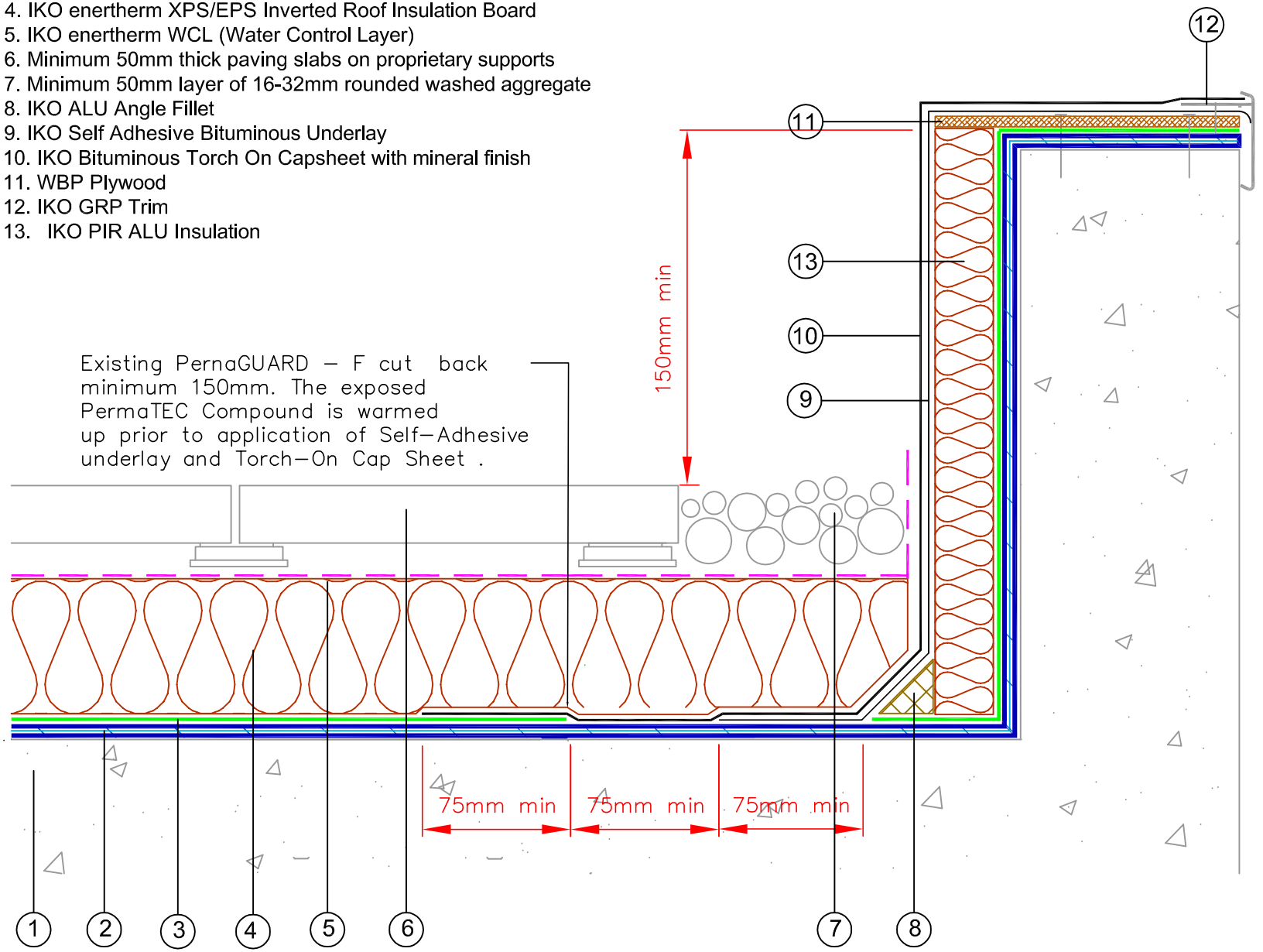
Drawing Title:
PARAPET DETAIL
FELT CAPPING

Date:	Scale:
12.04.2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.7B

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 thick paving slabs on proprietary supports
7. Minimum 50mm layer of 16-32mm rounded washed aggregate
8. IKO ALU Angle Fillet
9. IKO Self Adhesive Bituminous Underlay
10. IKO Bituminous Torch On Capsheet with mineral finish
11. WBP Plywood
12. IKO GRP Trim
13. IKO PIR ALU Insulation



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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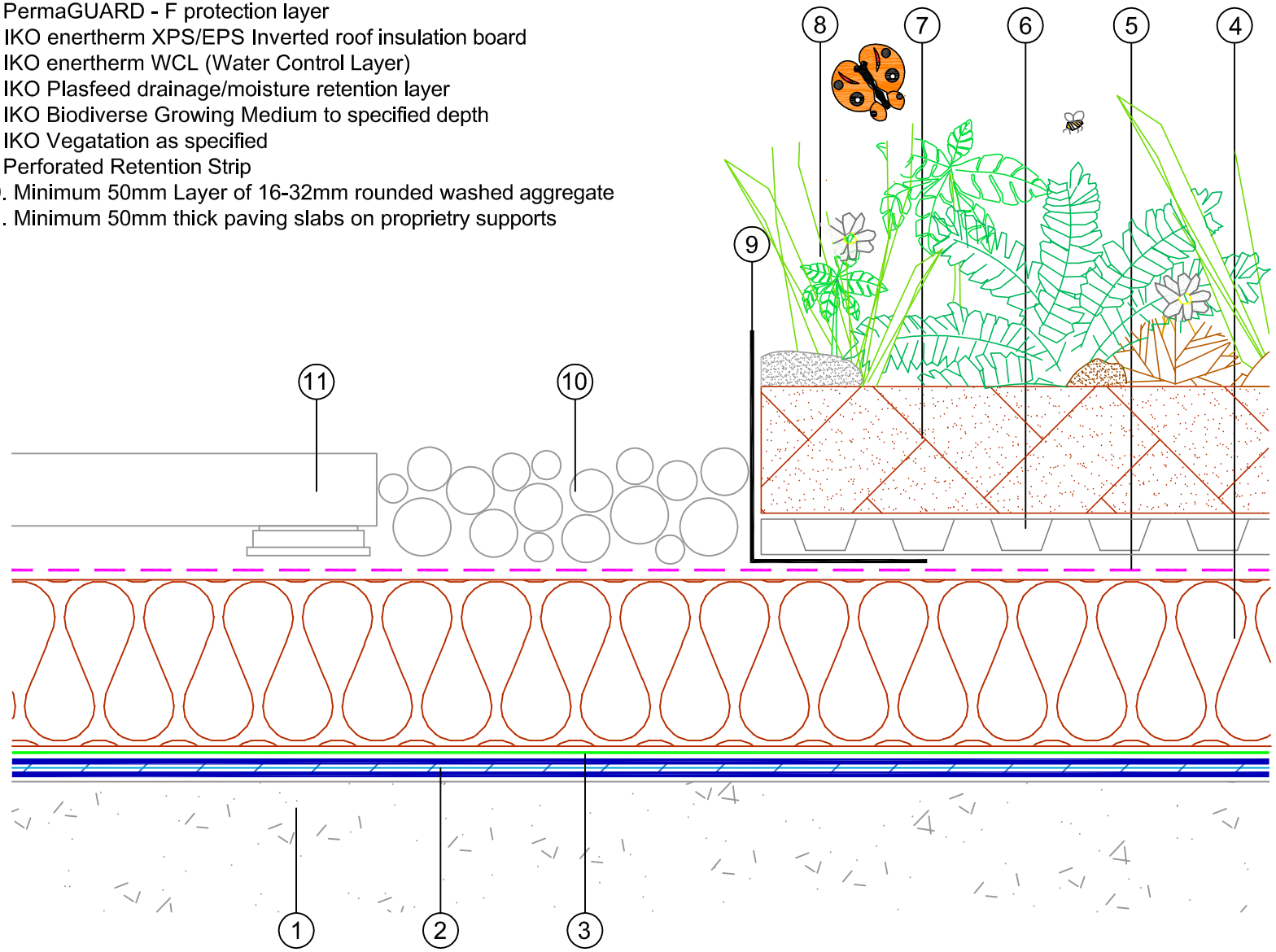
Drawing Title:
TYPICAL WARM BUR PARAPET DETAIL

Date:	Scale:
August 2017	NTS

Drawn by:	Revision:	Sheet No:
ME		PT.7B

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
7. IKO Biodiverse Growing Medium to specified depth
8. IKO Vegatation as specified
9. Perforated Retention Strip
10. Minimum 50mm Layer of 16-32mm rounded washed aggregate
11. Minimum 50mm thick paving slabs on proprietry 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 Biodiverse/Paving Interface

August 2017	Scale: NTS

Drawn by:	Revision:	Sheet No:
ME		PT. 8A