November 2018

IKO permatec®

Hot Melt Waterproofing System

Standard Detail Drawings

IKO Setting the Standard

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PT.1B (B)	TYPICAL INSULATED PODIUM DECK
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PT.1D	TYPICAL INVERTED ROOF PLYWOOD DECK
PT.1E	TYPICAL EXTENSIVE GREEN ROOF
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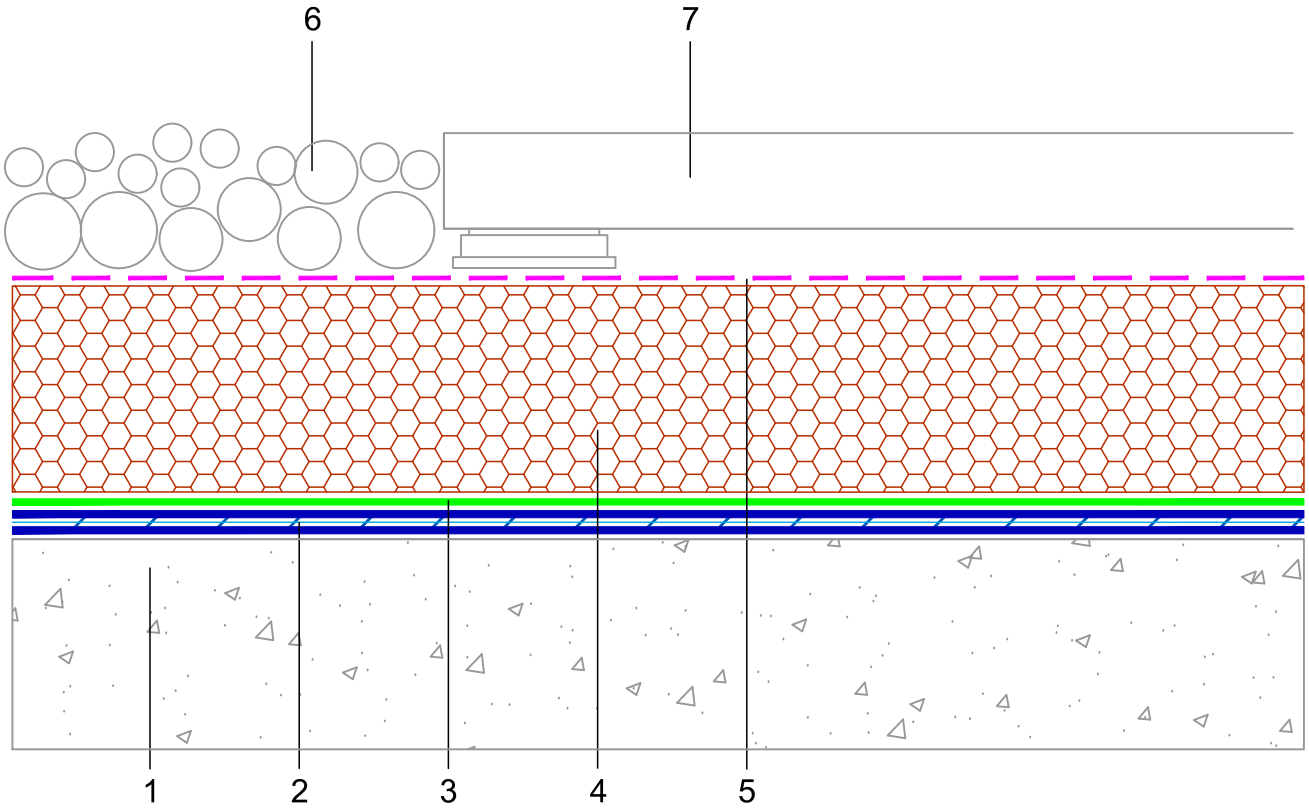
Wind Uplift

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 20 - 40mm washed rounded ballast or 40mm 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
Hot Melt Waterproofing System

TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL, MATLOCK,
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STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED DECK

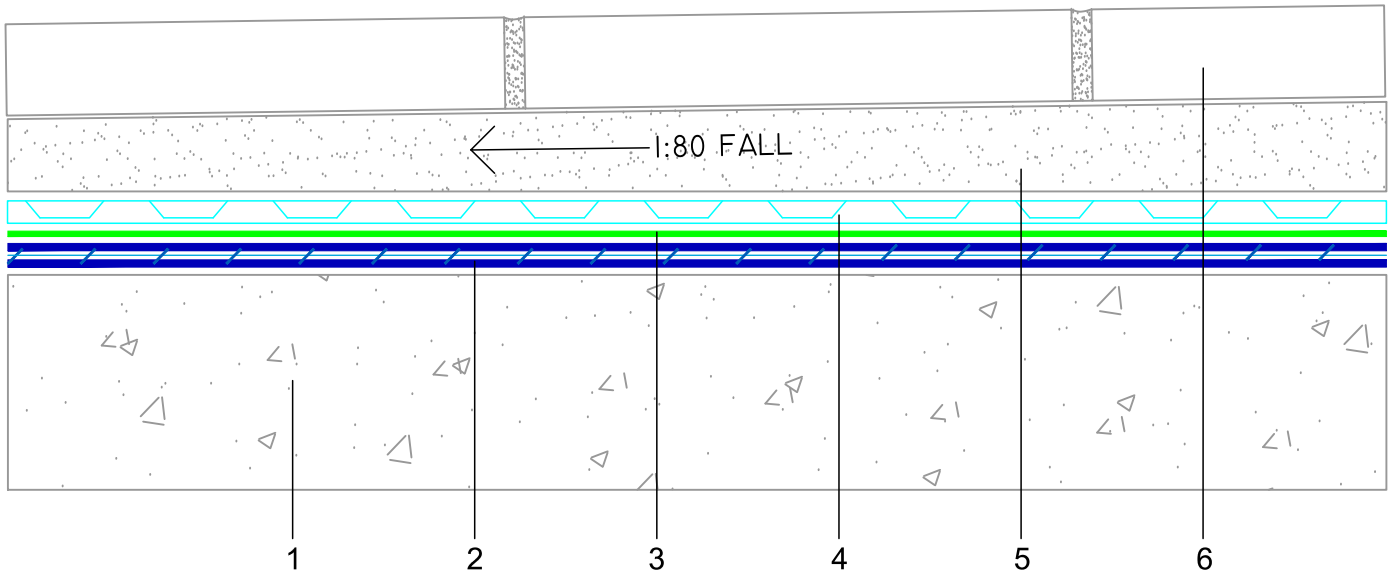
SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS

Date:	Scale:
November 2018	NTS

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

TO AVOID STANDING WATER, A MINIMUM FINISHED DRAINAGE FALL OF 1 IN 80 SHOULD BE ACHIEVED.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMAREC PRIMER
2. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
3. PERMAGUARD-F PROTECTION LAYER
4. IKO PLASDRAIN DRAINAGE LAYER
5. SAND/CEMENT OR GRANULAR SUB-BASE
6. BLOCK PAVING/CONCRETE SLABS

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STANDARD DETAIL

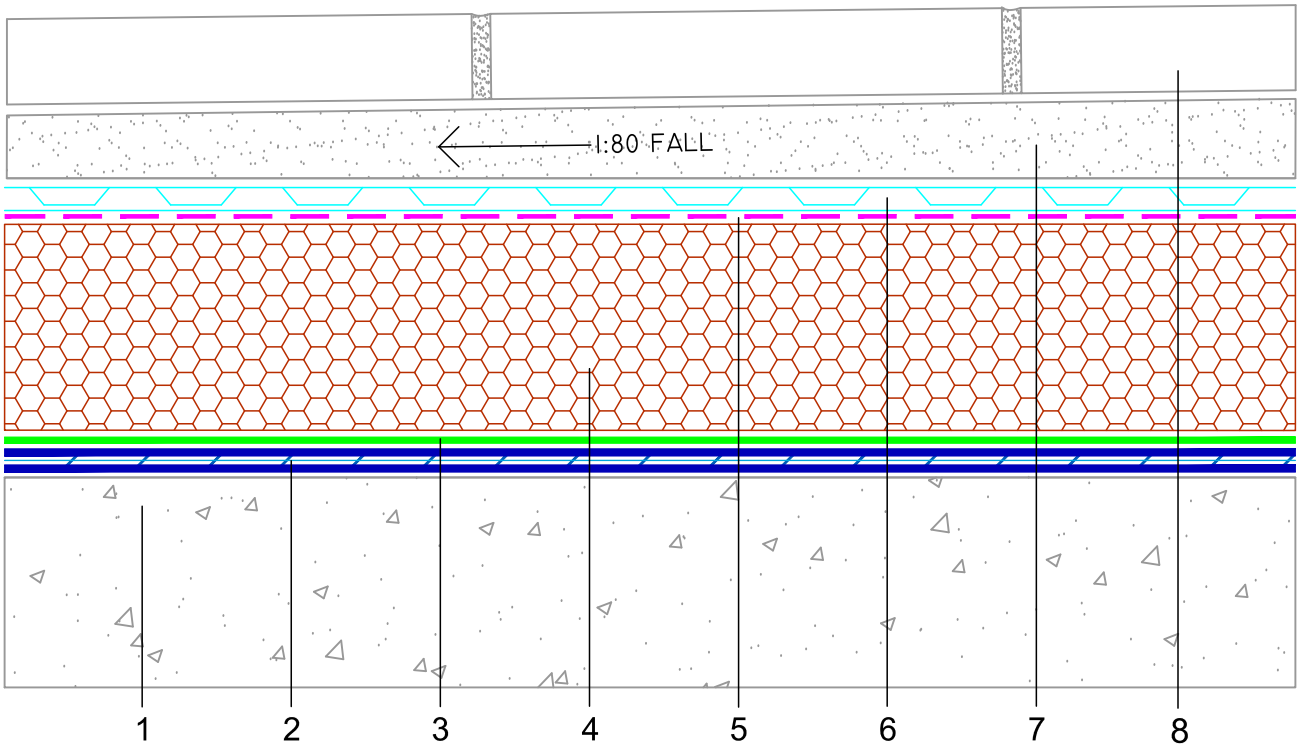
Drawing Title:

TYPICAL UN-INSULATED PODIUM DECK

Date:	Scale:
November 2018	NTS

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

TO AVOID STANDING WATER, A MINIMUM FINISHED DRAINAGE FALL OF 1 IN 80 SHOULD BE ACHIEVED.



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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED PODIUM DECK

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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
7. SAND/CEMENT OR GRANULAR SUB-BASE
8. BLOCK PAVING/CONCRETE SLABS

Date:	Scale:
November 2018	NTS

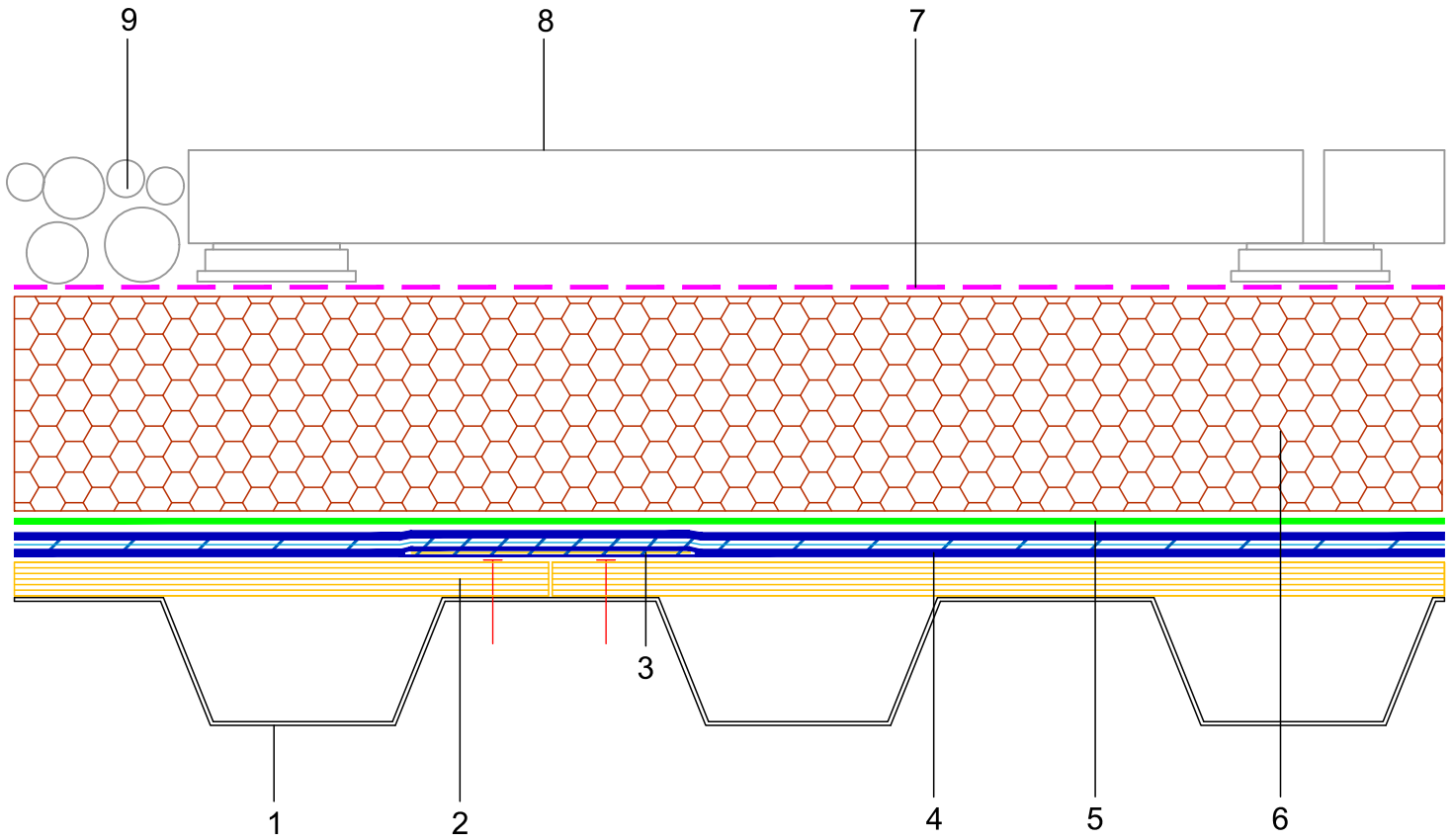
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1B(B)

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. STRUCTURAL METAL DECK
2. MINIMUM 18MM EXTERIOR GRADE- PLYWOOD, OSB TYPE 3 OR EXTERIOR CEMENT PARTICLE BOARD MECHANICALLY FIXED TO DECK
3. PERMAFLASH-D150 BONDED IN PERMATEC ECOWRAP
4. TWO COATS 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
9. MINIMUM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

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STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF ASSEMBLY METAL DECK

Date:	Scale:
November 2018	NTS

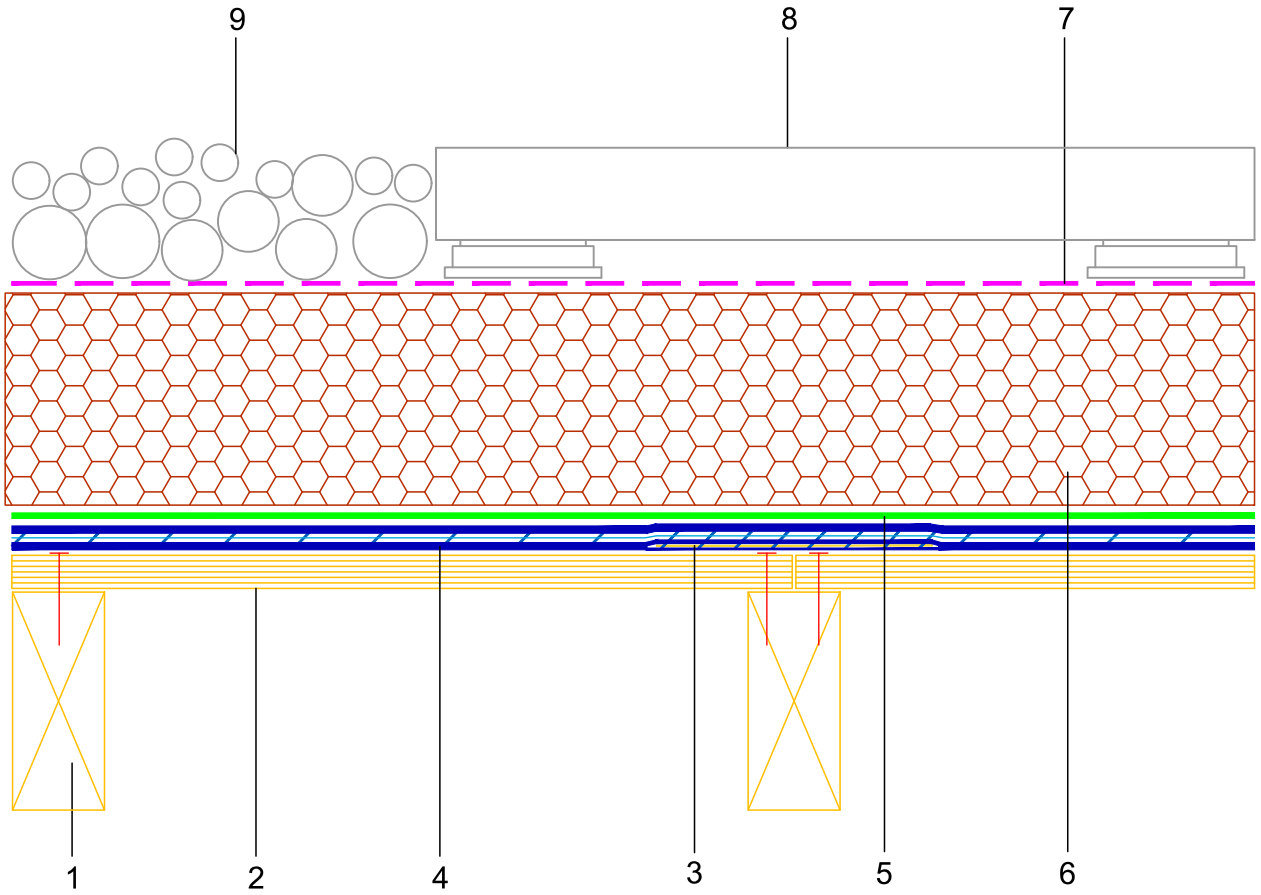
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1C

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. TIMBER JOIST
2. MINIMUM 18MM EXTERIOR GRADE- PLYWOOD, OSB TYPE 3 OR EXTERIOR CEMENT PARTICLE BOARD MECHANICALLY FIXED TO TIMBER JOISTS.
3. PERMAFLASH-DI50 BONDED IN PERMATEC ECOWRAP
4. TWO COATS 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
9. MINIMUM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

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STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF ASSEMBLY PLYWOOD DECK

Date:	Scale:
November 2018	NTS

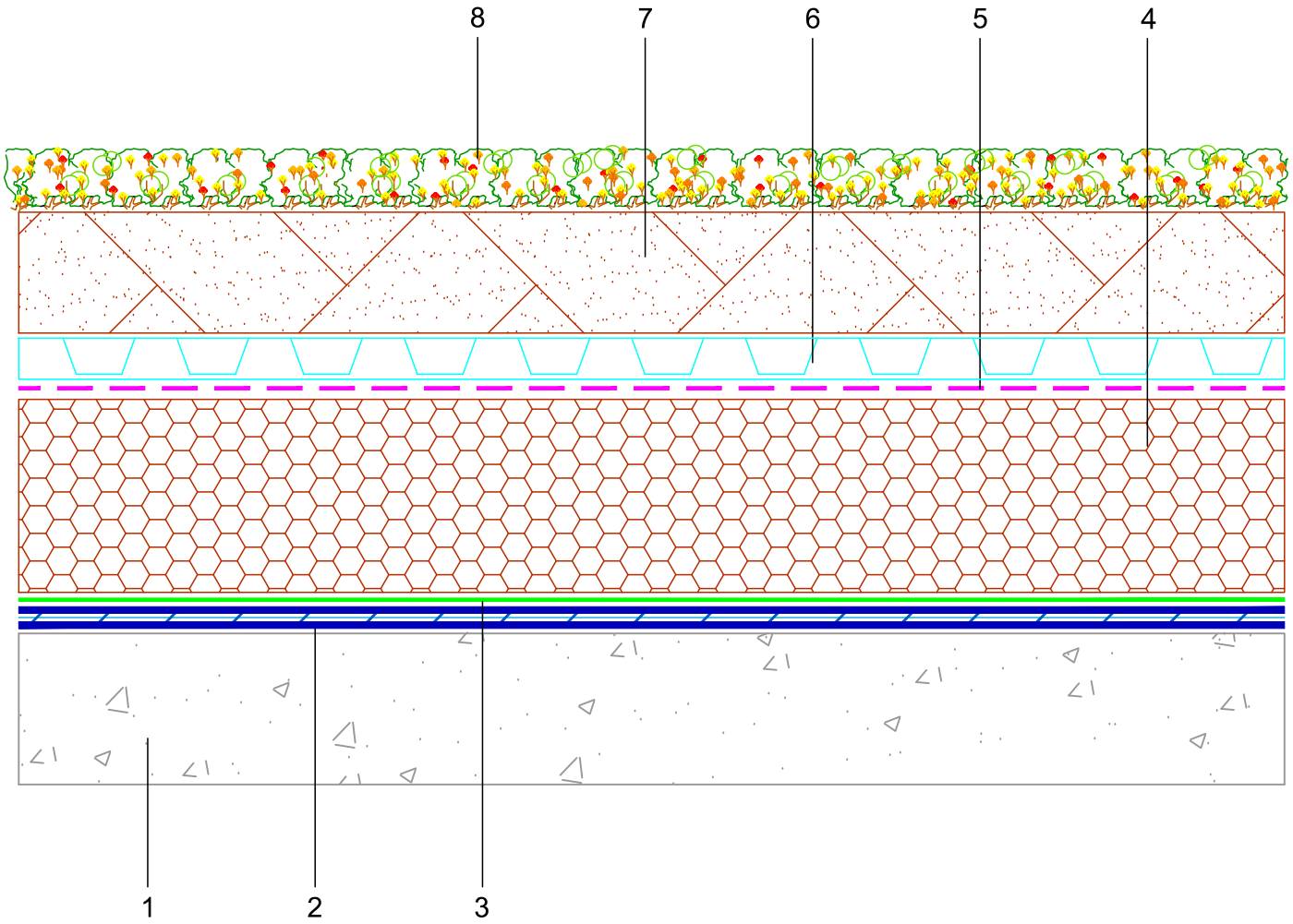
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1D

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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ANTIROOT INCORPORATING IKO PERMAFLASH-R REINFORCEMENT
3. IKO 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 EXTENSIVE GROWING MEDIUM
8. IKO SEDUM BLANKET/ PLUG PLANT

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STANDARD DETAIL

Drawing Title:

TYPICAL EXTENSIVE GREEN ROOF

Date:	Scale:
November 2018	NTS

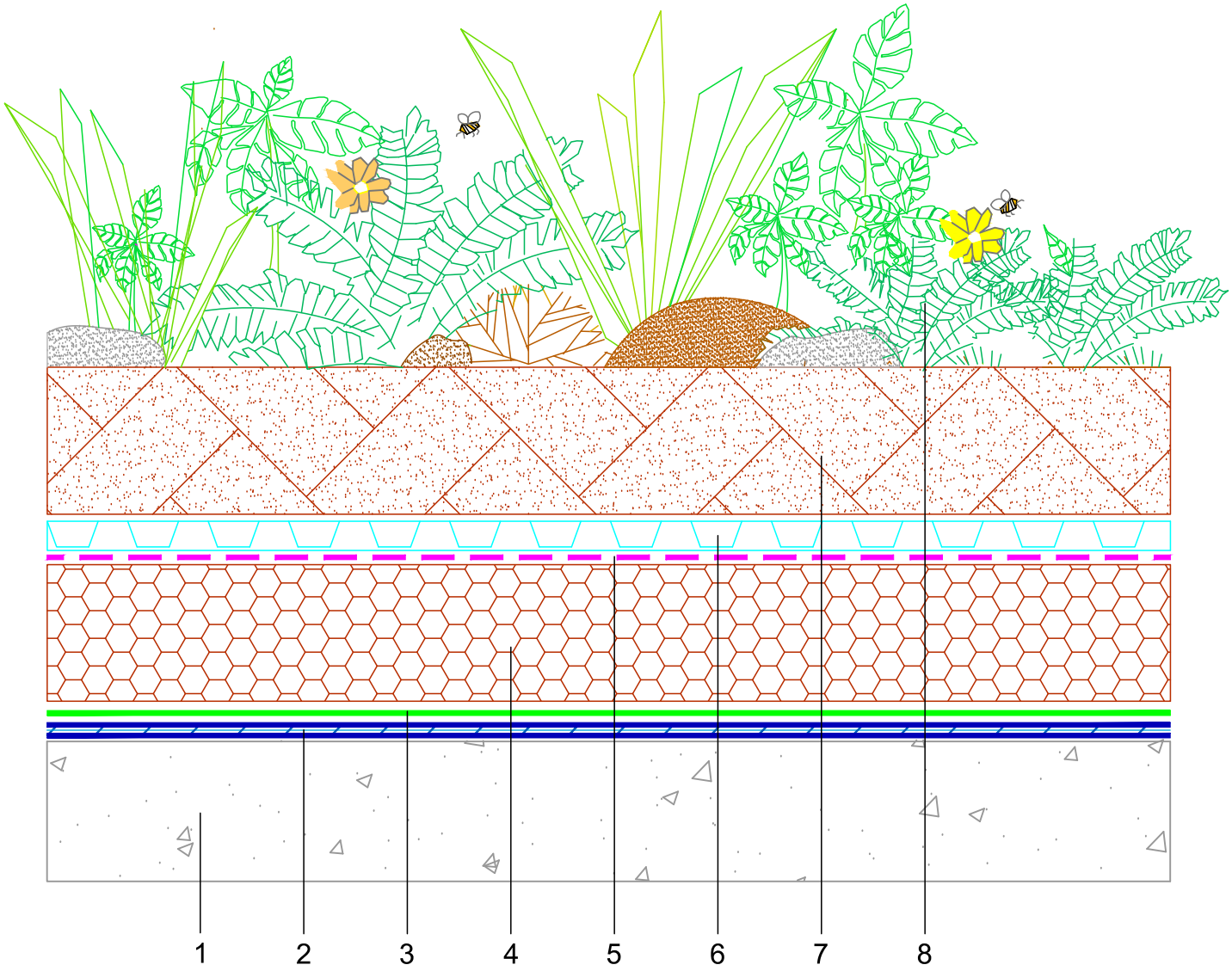
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1E

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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 INTENSIVE GROWING MEDIUM
8. VEGETATION AS SPECIFIED

IKO permatec
Hot Melt Waterproofing System

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STANDARD DETAIL

Drawing Title:

TYPICAL INTENSIVE GREEN ROOF

Date:	Scale:
November 2018	NTS

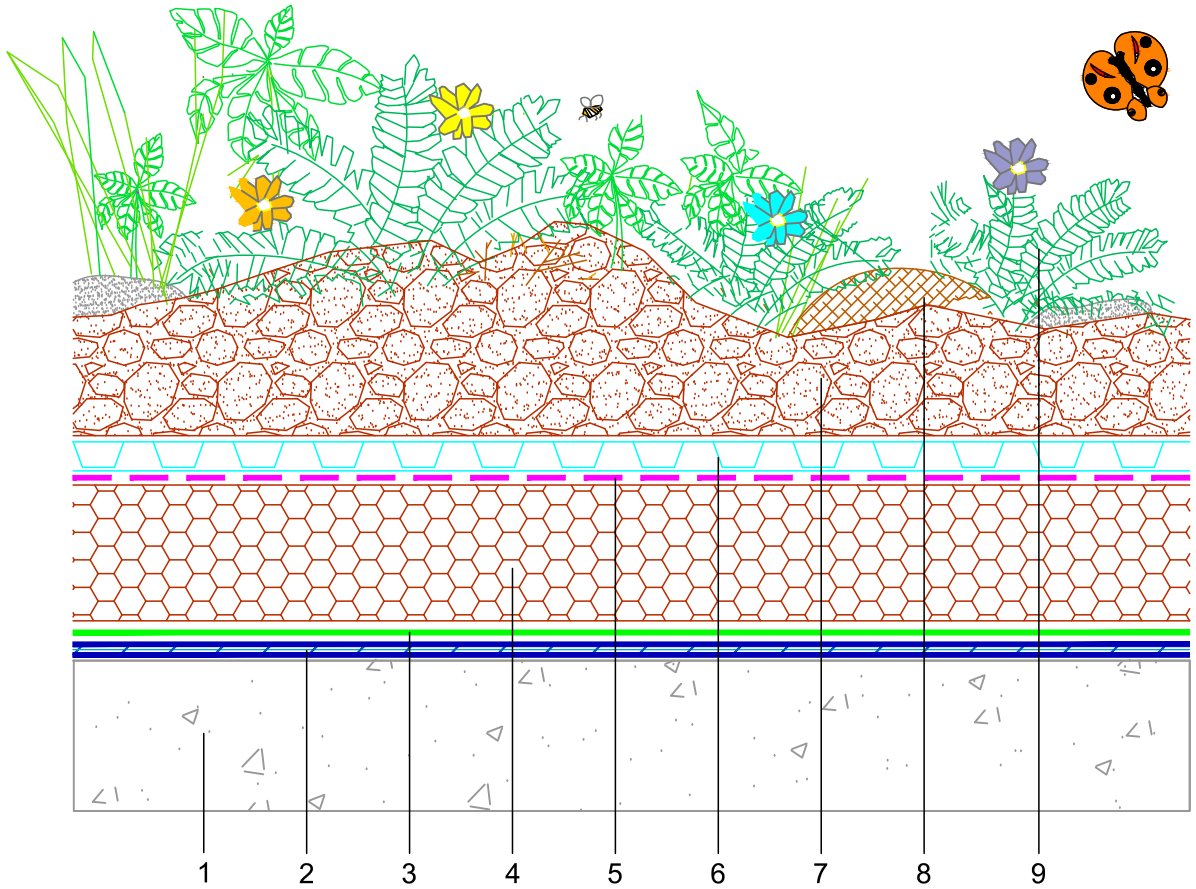
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1F(A)

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.



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, MOUNDED BETWEEN MINIMUM 100MM UP TO ABOUT 200MM.
8. OPTIONAL LOGS AND INSECT HOUSES
9. VEGETATION TO ENHANCE THE PRE-DEVELOPMENT HABITAT & ATTRACT SPECIFIC WILDLIFE

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STANDARD DETAIL

Drawing Title:

TYPICAL BIODIVERSE GREEN ROOF

Date:	Scale:
November 2018	NTS

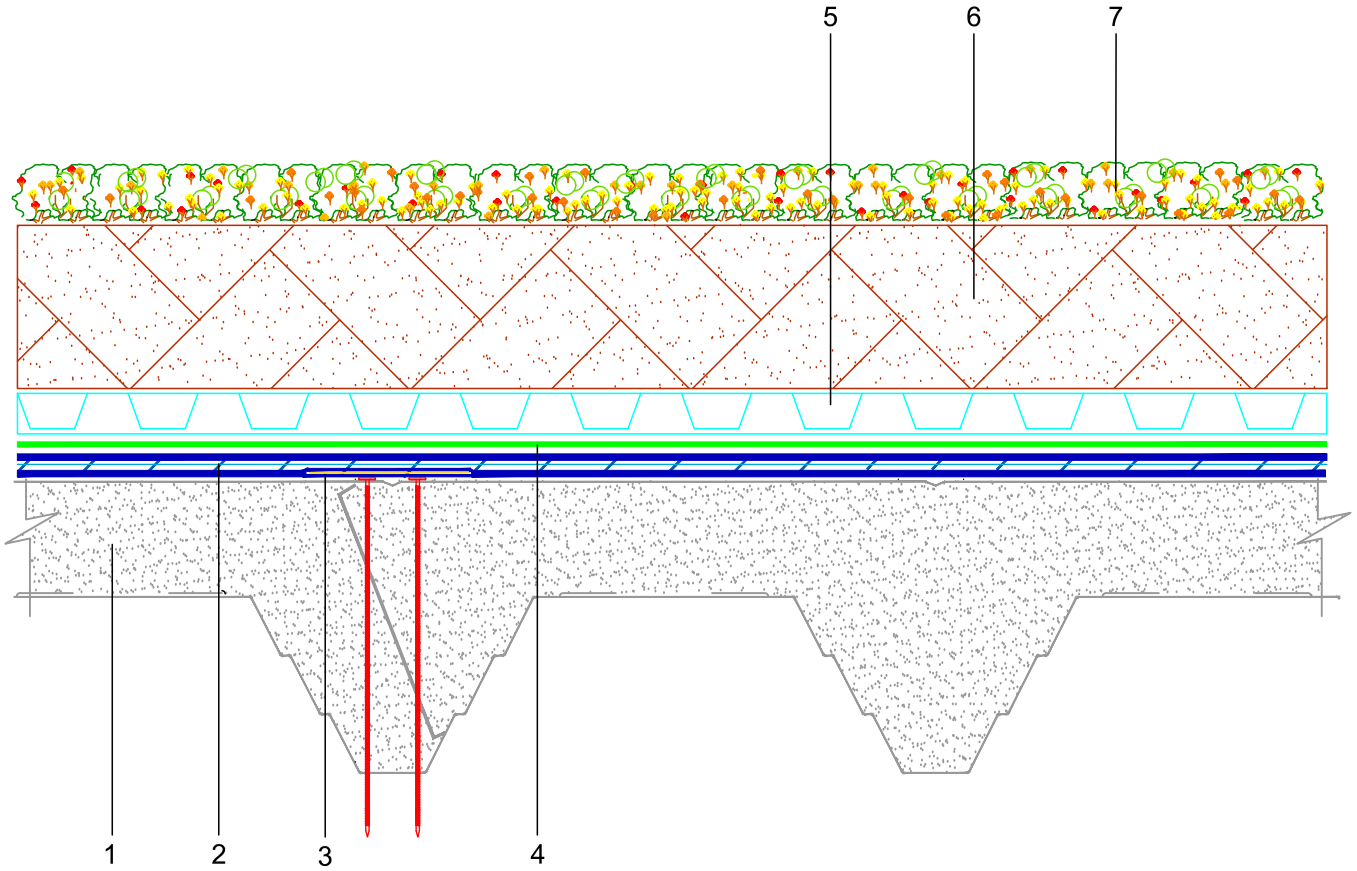
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1F(B)

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.



SECTION KEY:

1. COMPATIBLE COMPOSITE INSULATED ROOF DECK
2. TWO COATS OF PERMATEC ANTIROOT INCORPORATING PERMAFLASH-R REINFORCEMENT
3. 150MM WIDE PERMAFLASH-DI50 BONDED IN PERMATEC ANTIROOT
4. PERMAGUARD-F PROTECTION LAYER
5. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER
6. IKO EXTENSIVE GROWING MEDIUM
7. IKO SEDUM BLANKET/ PLUG PLANT

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STANDARD DETAIL

Drawing Title:

TYPICAL EXTENSIVE GREEN ROOF SECTION ON COMPOSITE INSULATED ROOF DECK

Date:	Scale:
November 2018	NTS

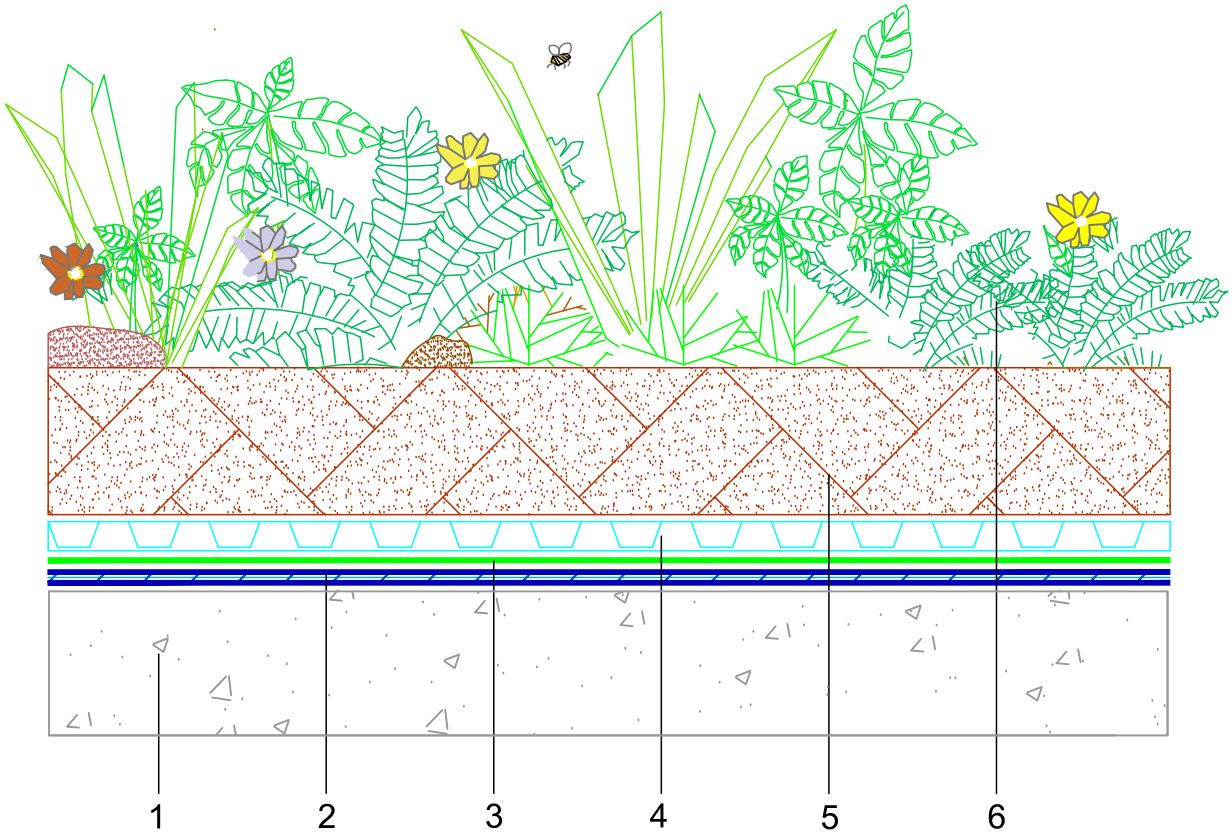
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1G

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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ANTIROOT INCORPORATING PERMAFLASH-R REINFORCEMENT
3. PERMAGUARD-F PROTECTION LAYER
4. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER
5. IKO INTENSIVE GROWING MEDIUM
6. VEGETATION AS SPECIFIED

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STANDARD DETAIL

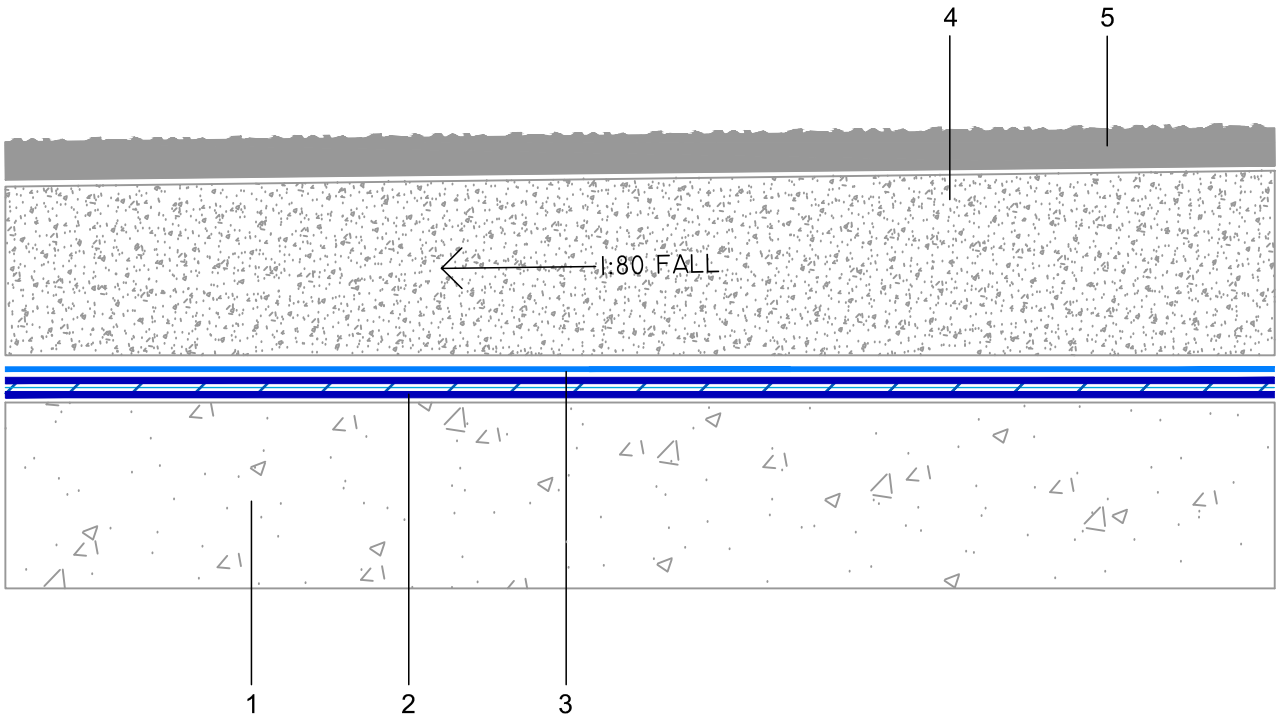
Drawing Title:

TYPICAL UN-INSULATED
INTENSIVE GREEN ROOF

Date:	Scale:
November 2018	NTS

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

TO AVOID STANDING WATER, A MINIMUM FINISHED DRAINAGE FALL OF 1 IN 80 SHOULD BE ACHIEVED.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
3. IKO PERMAGUARD HDPB (HEAVY DUTY PROTECTION BOARD)
4. MACADAM BASE COURSE
5. MACADAM WEARING COURSE

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STANDARD DETAIL

Drawing Title:

TYPICAL FLEXIBLE PAVEMENT
OVER PERMATEC

Date:	Scale:
November 2018	NTS

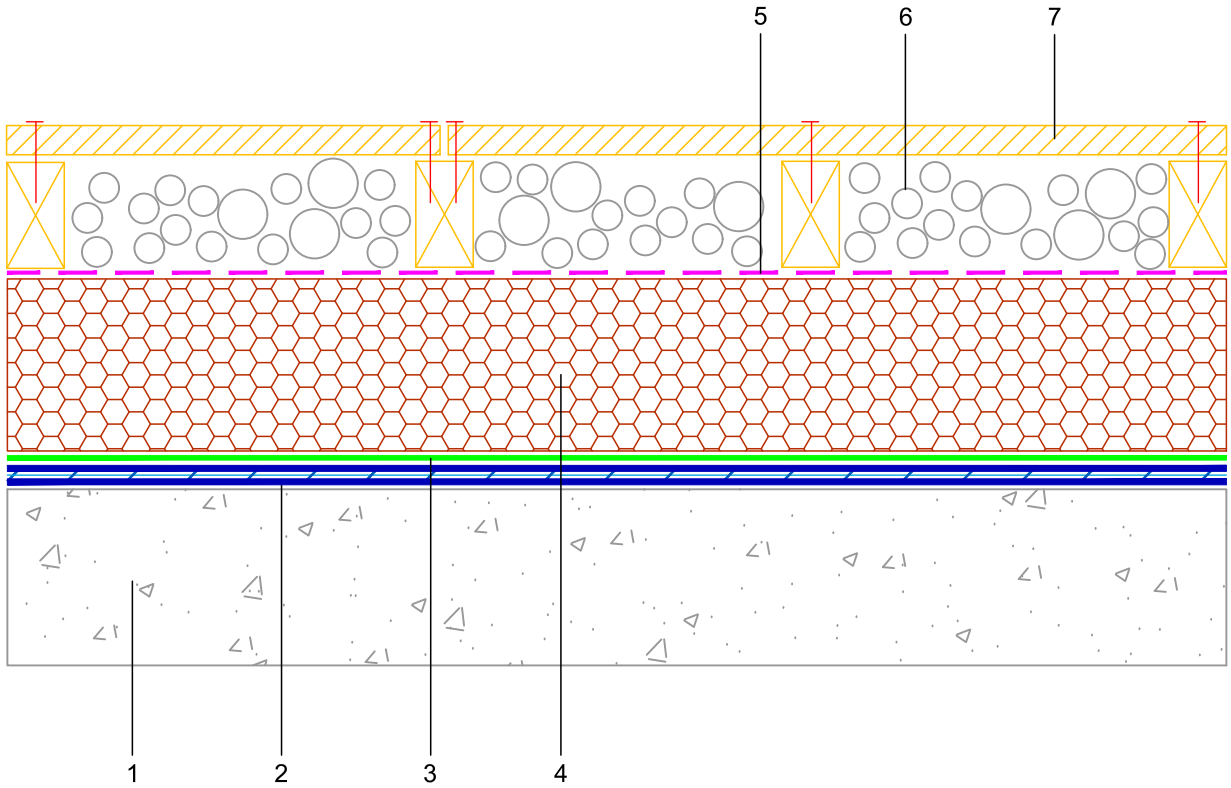
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1J

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 20 - 40mm washed rounded ballast.

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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STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF WITH TIMBER DECKING

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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

Date:	Scale:
November 2018	NTS

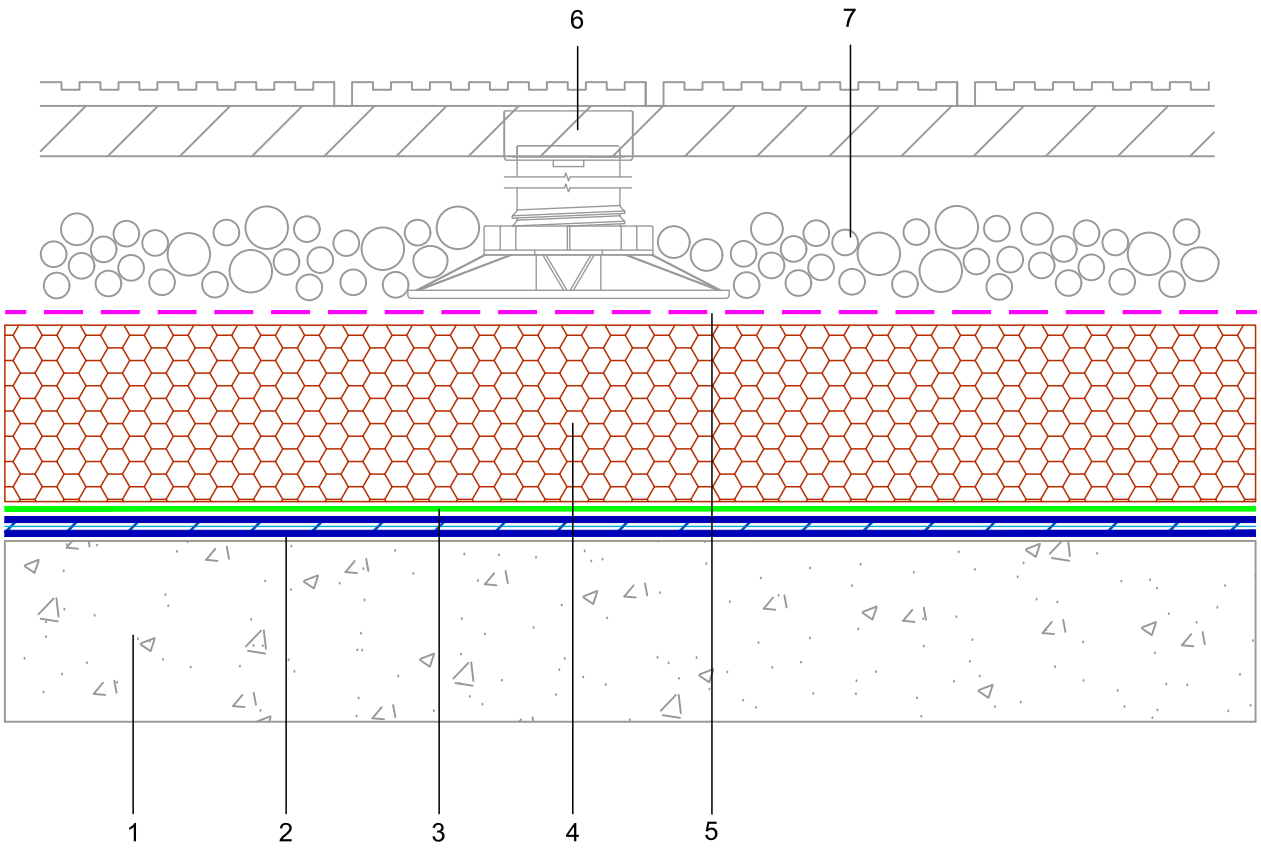
Drawn by:	Revision:	Sheet No:
ME JDA		PT.1K

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 20 - 40mm washed rounded ballast.

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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Tel: 01257 256888
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STANDARD DETAIL

Drawing Title:

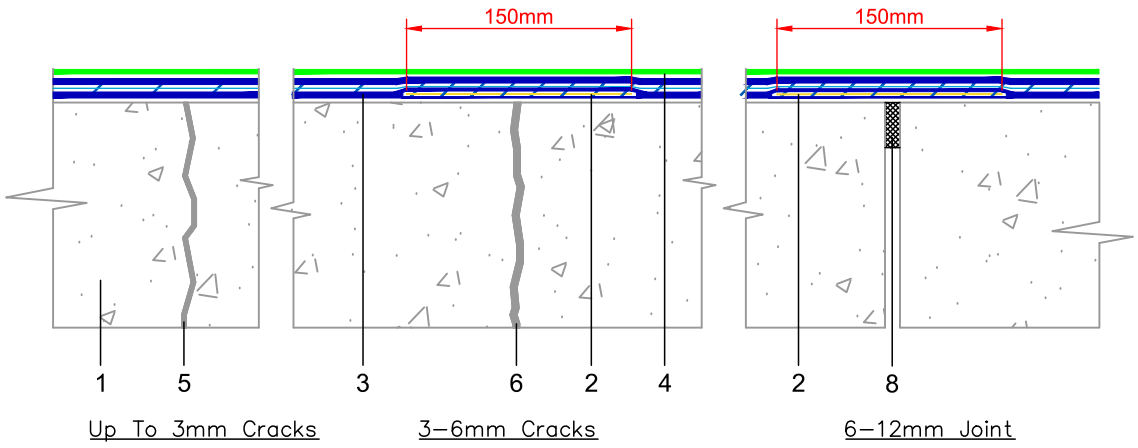
TYPICAL INVERTED ROOF WITH COMPOSITE DECKING

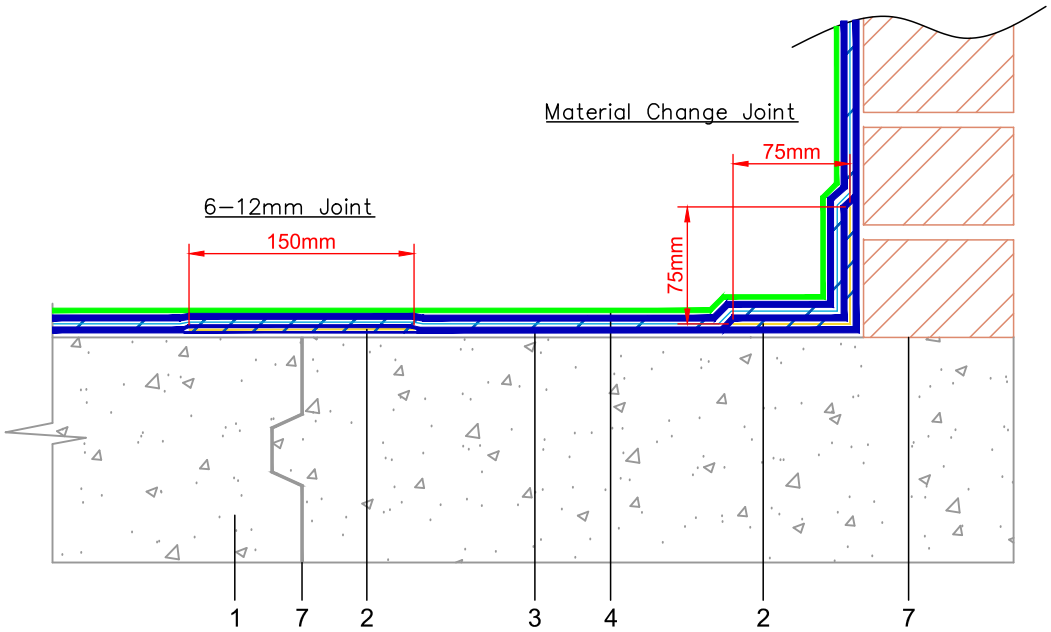
SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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. COMPOSITE DECKING SYSTEM WITH ADJUSTABLE SUPPORTS
7. MINIMUM 50MM LAYER OF 20 - 40MM ROUNDED WASHED AGGREGATE

Date:	Scale:
November 2018	NTS

Drawn by:	Revision:	Sheet No:
ME JDA		PT.1L





IKO PERMAFLASH D-150 DETAILING STRIP BONDED IN IKO PERMATEC COMPOUND TO COVER ALL JOINTS UP TO 12MM AND CHANGE IN MATERIAL. SEE IKO PERMATEC SYSTEM INSTALLATION GUIDE FOR MORE INFORMATION.

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-D150 BONDED IN PERMATEC ECOWRAP
3. TWO 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

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STANDARD DETAIL

Drawing Title:

CRACK AND JOINT REINFORCEMENT DETAILS

Date:	Scale:
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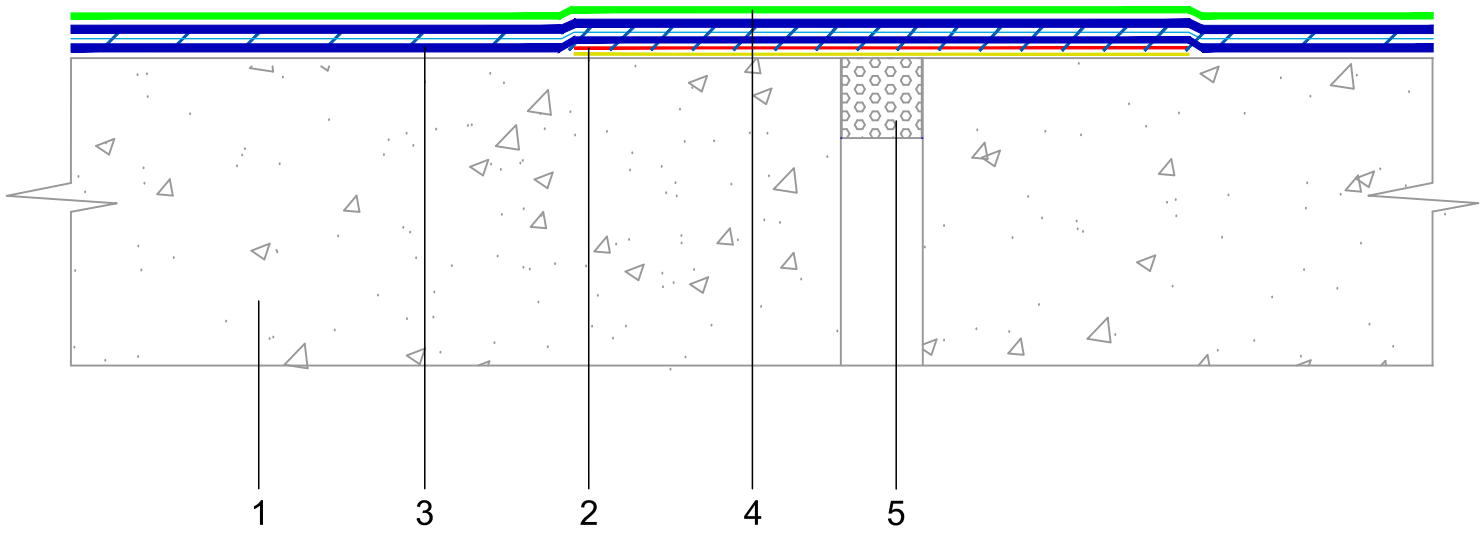
ME JDA		PT.2A

N.B. 12-50MM GAP. MAXIMUM 50% TOTAL MOVEMENT



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PROPRIETARY EXPANSION JOINT MEMBRANE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
3. TWO LAYERS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
4. PERMAGUARD-F PROTECTION LAYER
5. CLOSED CELL FOAM

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STANDARD DETAIL

Drawing Title:

TYPICAL EXPANSION JOINT
12-50MM GAP

Date:	Scale:
November 2018	NTS

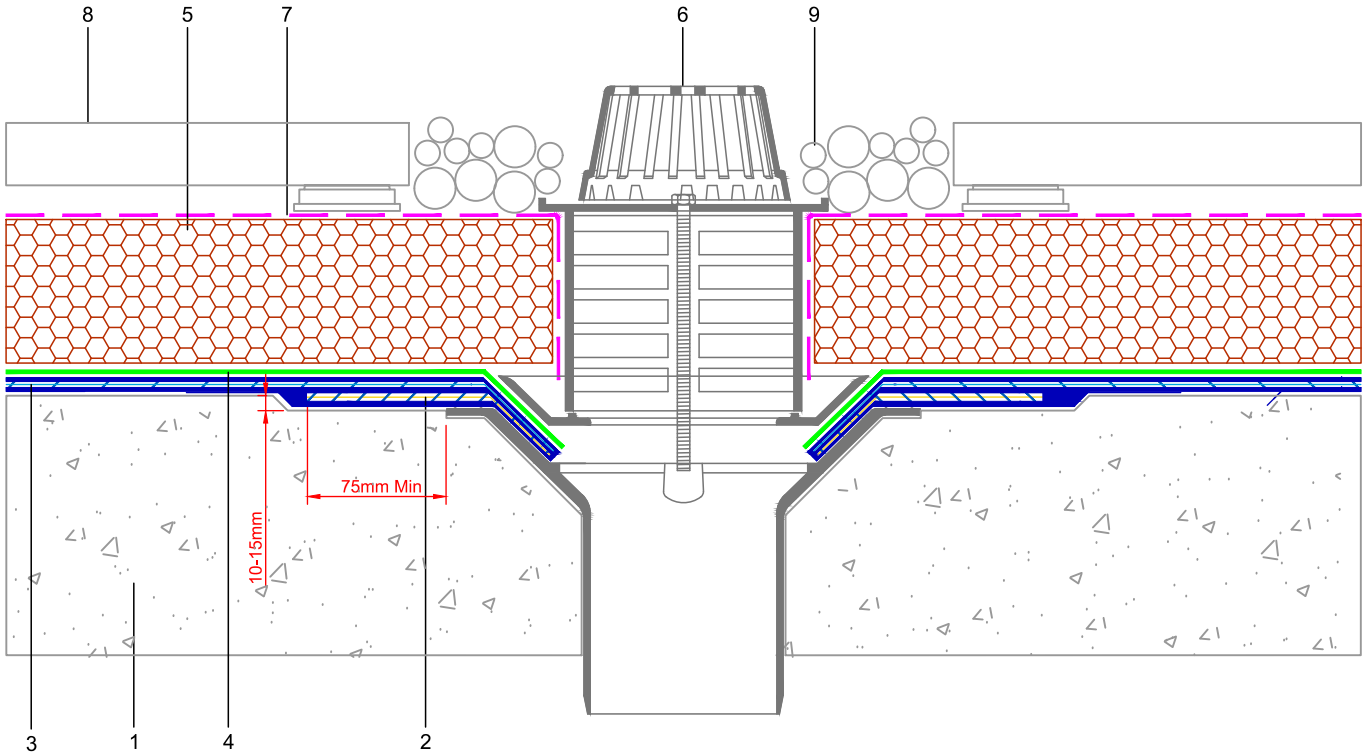
Drawn by:	Revision:	Sheet No:
ME JDA		PT.2B

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

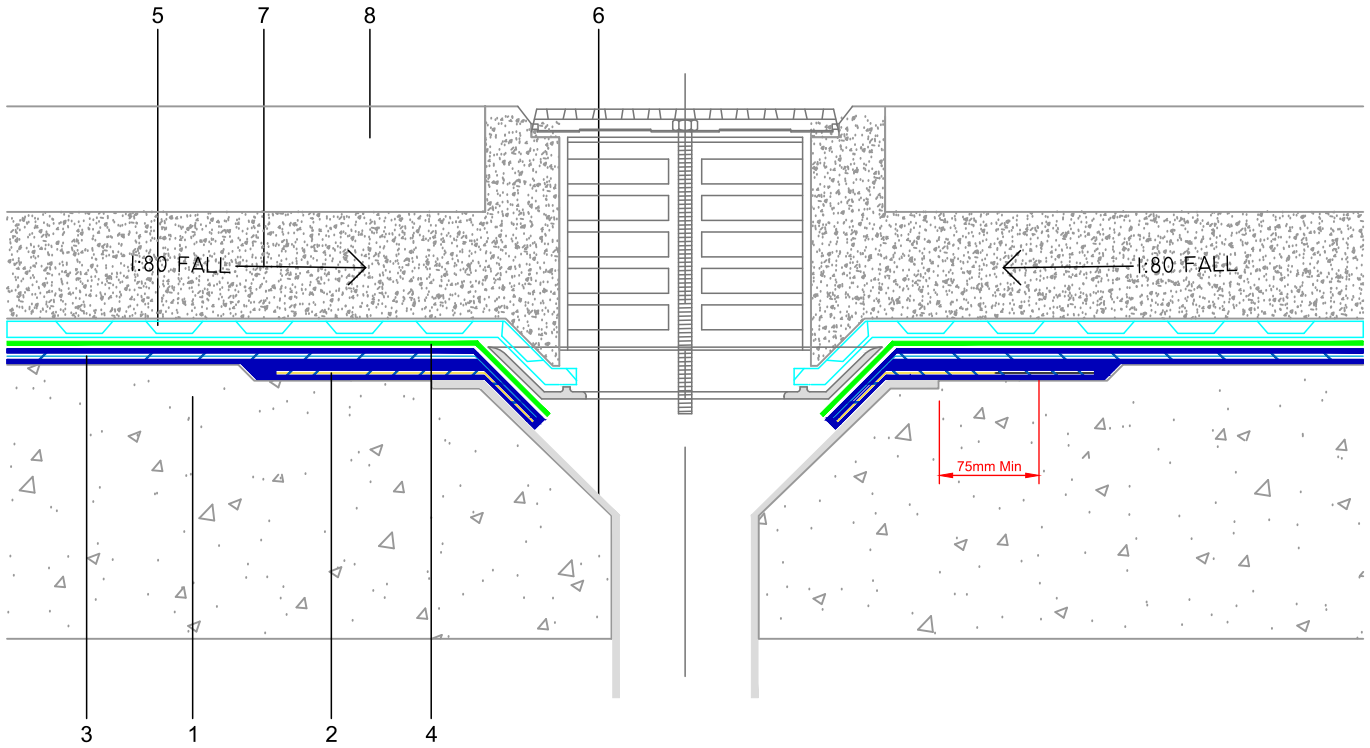
TYPICAL RAINWATER OUTLET
INVERTED ROOF

SECTION KEY:

1. CONCRETE SLAB PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-D500 BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
9. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

Date:	Scale:
November 2018	NTS

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



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STANDARD DETAIL

Drawing Title:

TYPICAL RAINWATER OUTLET
UN-INSULATED PODIUM DECK

SECTION KEY:

1. CONCRETE SLAB PRIMED WITH PERMATEC PRIMER
2. 500MM WIDE PERMAFLASH-D500 BEDDED IN PERMATEC ECOWRAP
3. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
4. PERMAGUARD-F PROTECTION LAYER
5. IKO PLASDRAIN DRAINAGE LAYER
6. IKO VERTICAL SPIGOT ROOF OUTLET WITH EXTENSION RING & FLAT GRATE. SEALED TO DOWN PIPE
7. BEDDING MATERIAL
8. PAVING MATERIAL

Date:	Scale:
November 2018	NTS

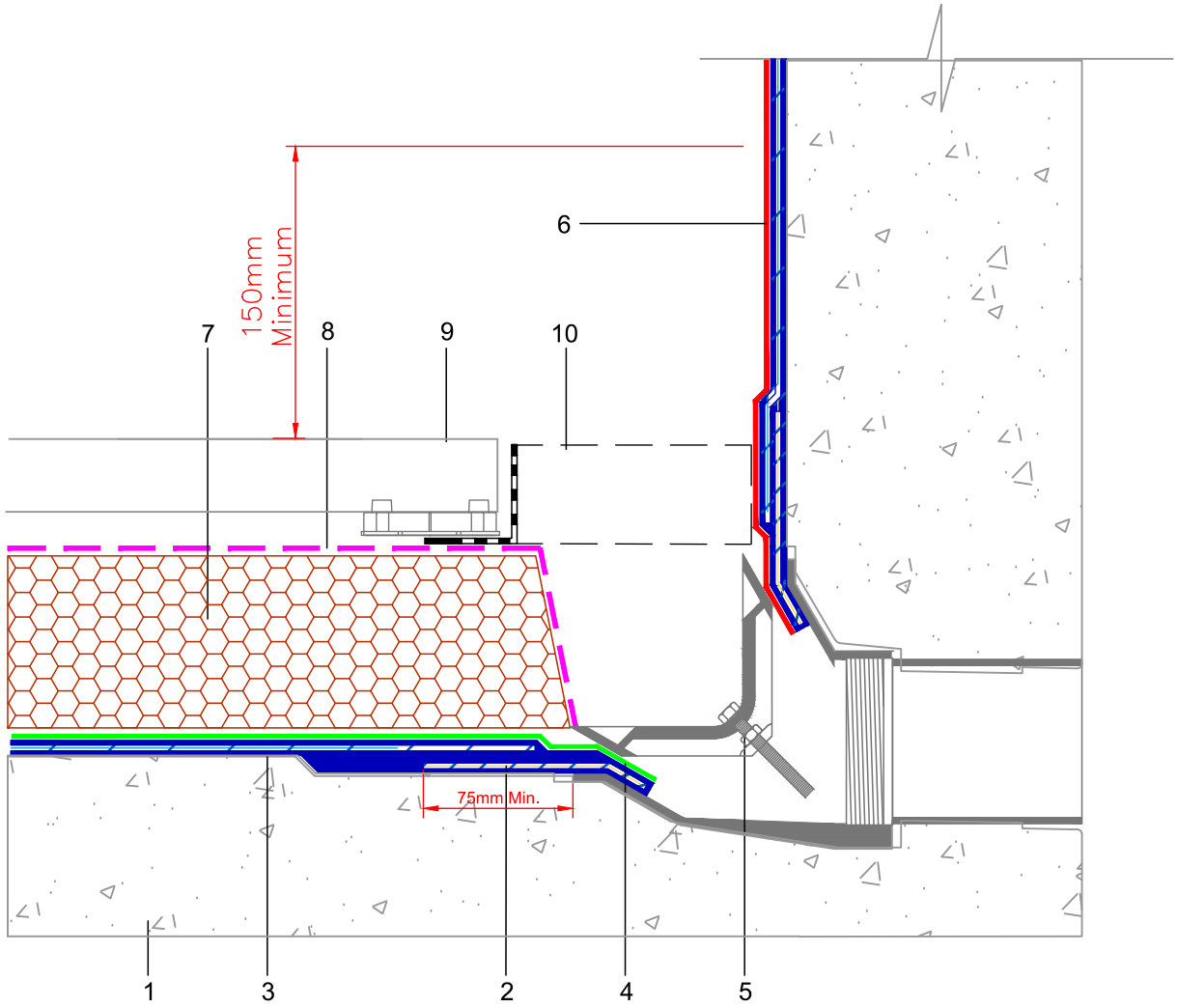
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3B

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL RAINWATER OUTLET
PARAPET - BALCONY

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. 150MM WIDE PERMAFLASH-D150 BEDDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. 10.INSPECTION CHAMBER-THREE SIDED PERFORATED BOX WITH FLANGE WITH REMOVABLE LID

Date:	Scale:
November 2018	NTS

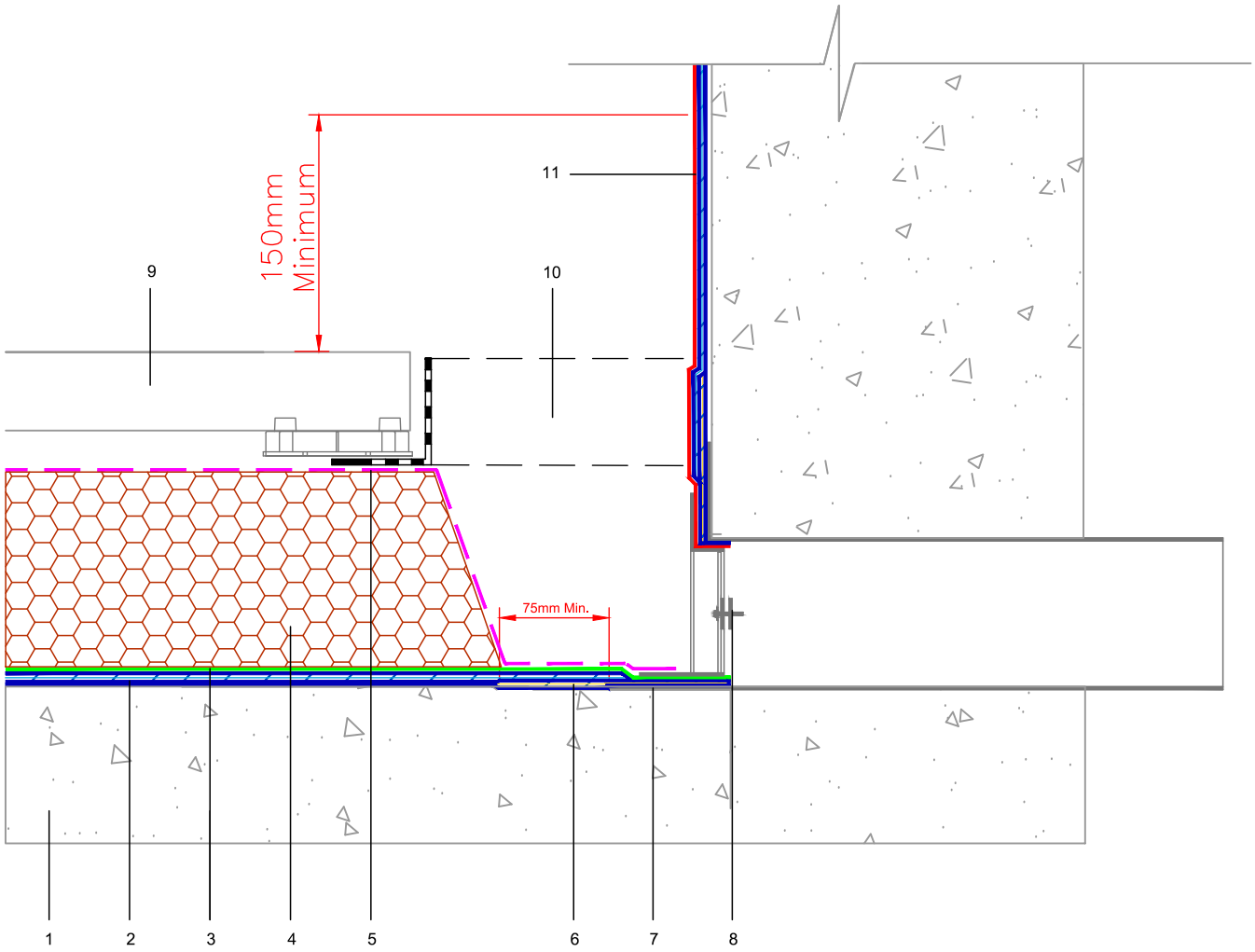
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3C

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL PARAPET RAINWATER OUTLET FLUSH WITH DECK

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
3. PERMAGUARD-F PROTECTION LAYER
4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION
5. IKO ENERTHERM WCL (WATER CONTROL LAYER)
6. IKO PERMAFLASH-DI50 DETAILING STRIP FOR ALL JOINTS AND CHANGE IN MATERIAL
7. IKO PARAPET RAINWATER OUTLET FLUSH WITH DECK
8. RAINWATER OUTLET CLAMP
9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. INSPECTION CHAMBER-THREE SIDED PERFORATED BOX WITH FLANGE WITH REMOVABLE LID
11. IKO PERMAGUARD-M (MINERAL FACED PROTECTION LAYER FOR ALL EXPOSED AREAS)

Date:	Scale:
November 2018	NTS

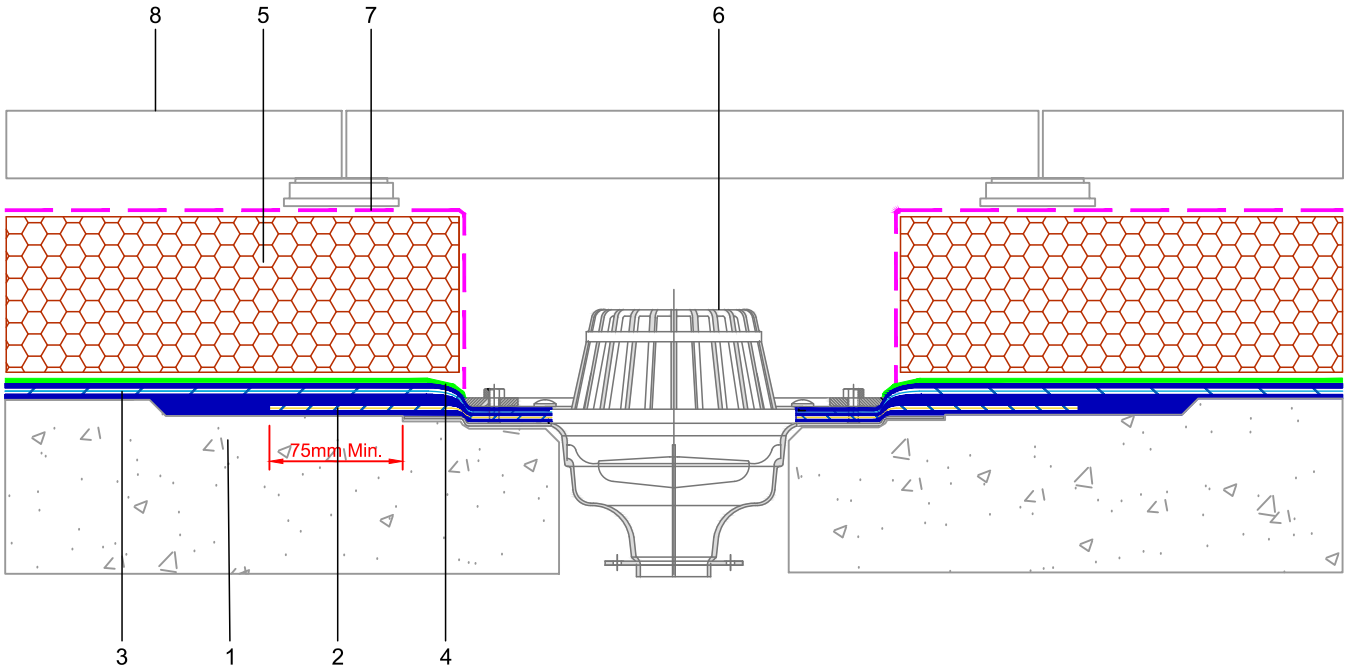
Drawn by:	Revision:	Sheet No:
JDA		PT.3C

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL FULL-FLOW SYPHONIC OUTLET

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. 500MM WIDE PERMAFLASH-D500 BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS

Date:	Scale:
November 2018	NTS

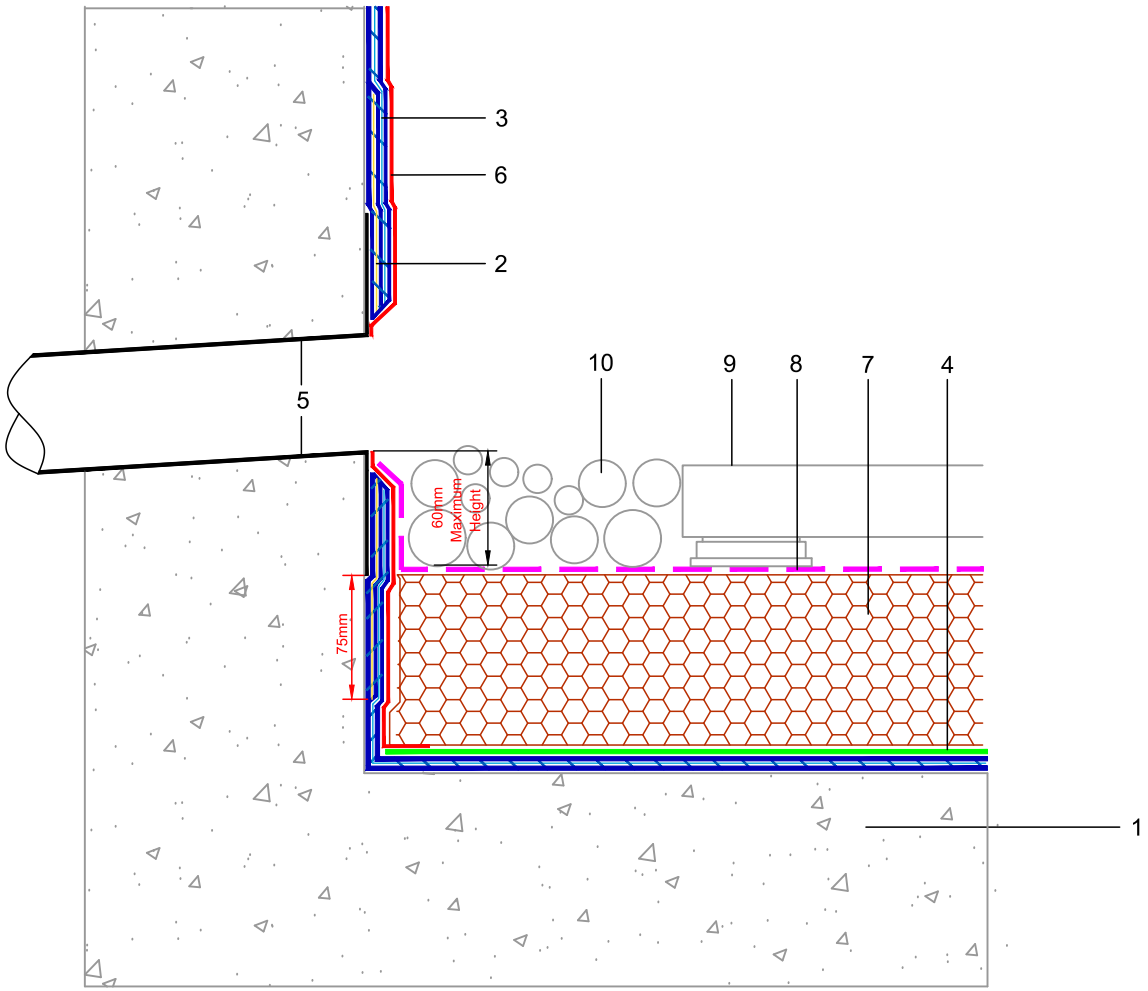
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3D

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 BEDDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

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STANDARD DETAIL

Drawing Title:

TYPICAL RAINWATER
OVERFLOW CHUTE
THROUGH UP-STAND

Date:	Scale:
November 2018	NTS

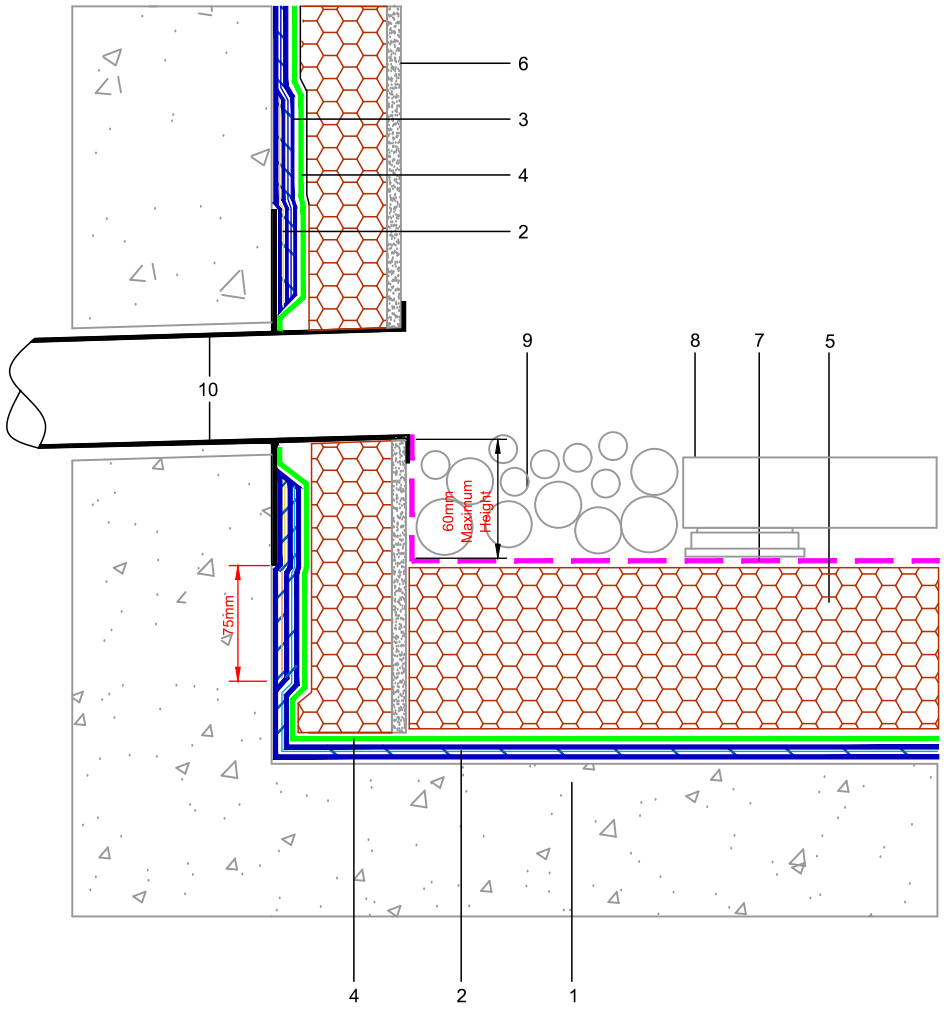
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3E

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED
RAINWATER OVERFLOW CHUTE
THROUGH UP-STAND

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BEDDED IN PERMATEC ECOWRAP
3. TWO 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 40MM PAVING SLABS ON PROPRIETARY SUPPORTS
9. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
10. 10.OVERFLOW CHUTE WITH MINIMUM 75MM FLANGE

Date:	Scale:
November 2018	NTS

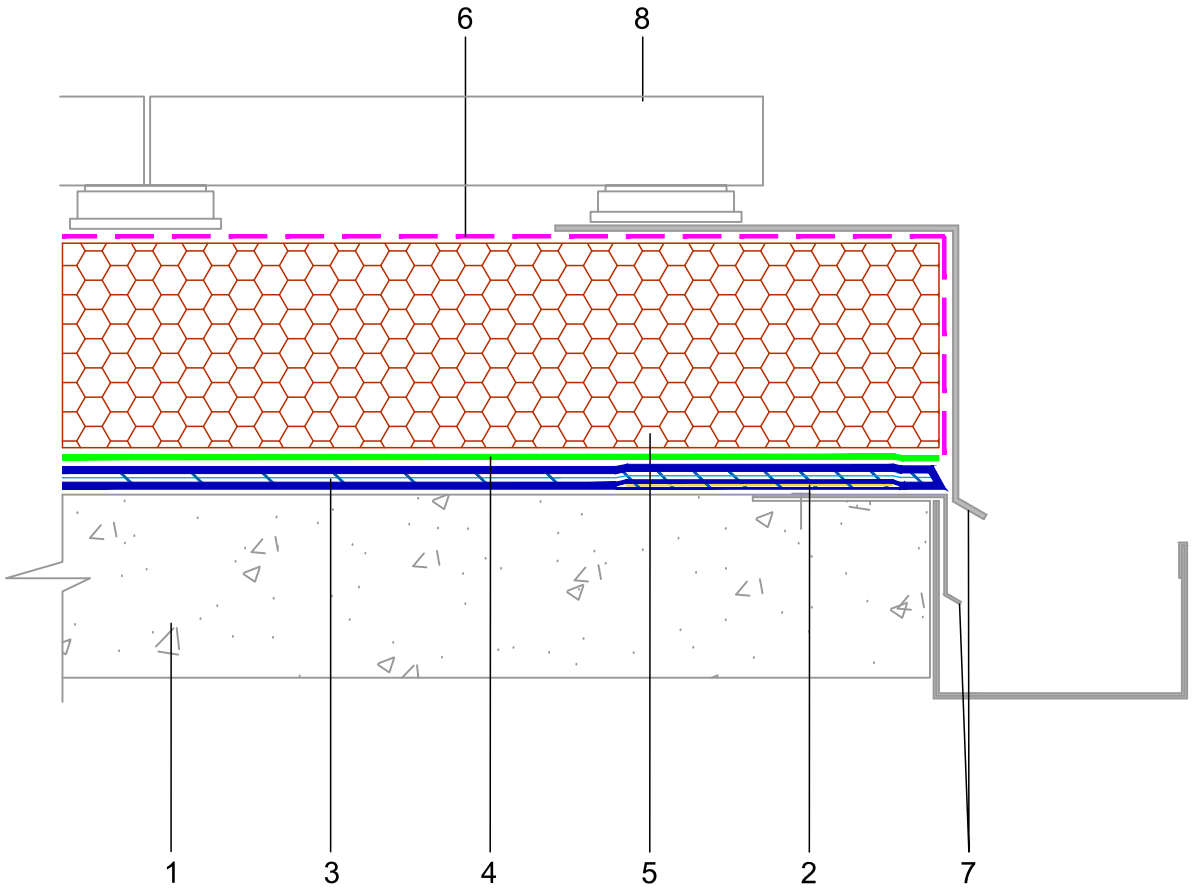
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3F

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL DRIP TO GUTTER

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 BONDED IN PERMATEC ECOWRAP
3. TWO 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
8. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS

Date:	Scale:
November 2018	NTS

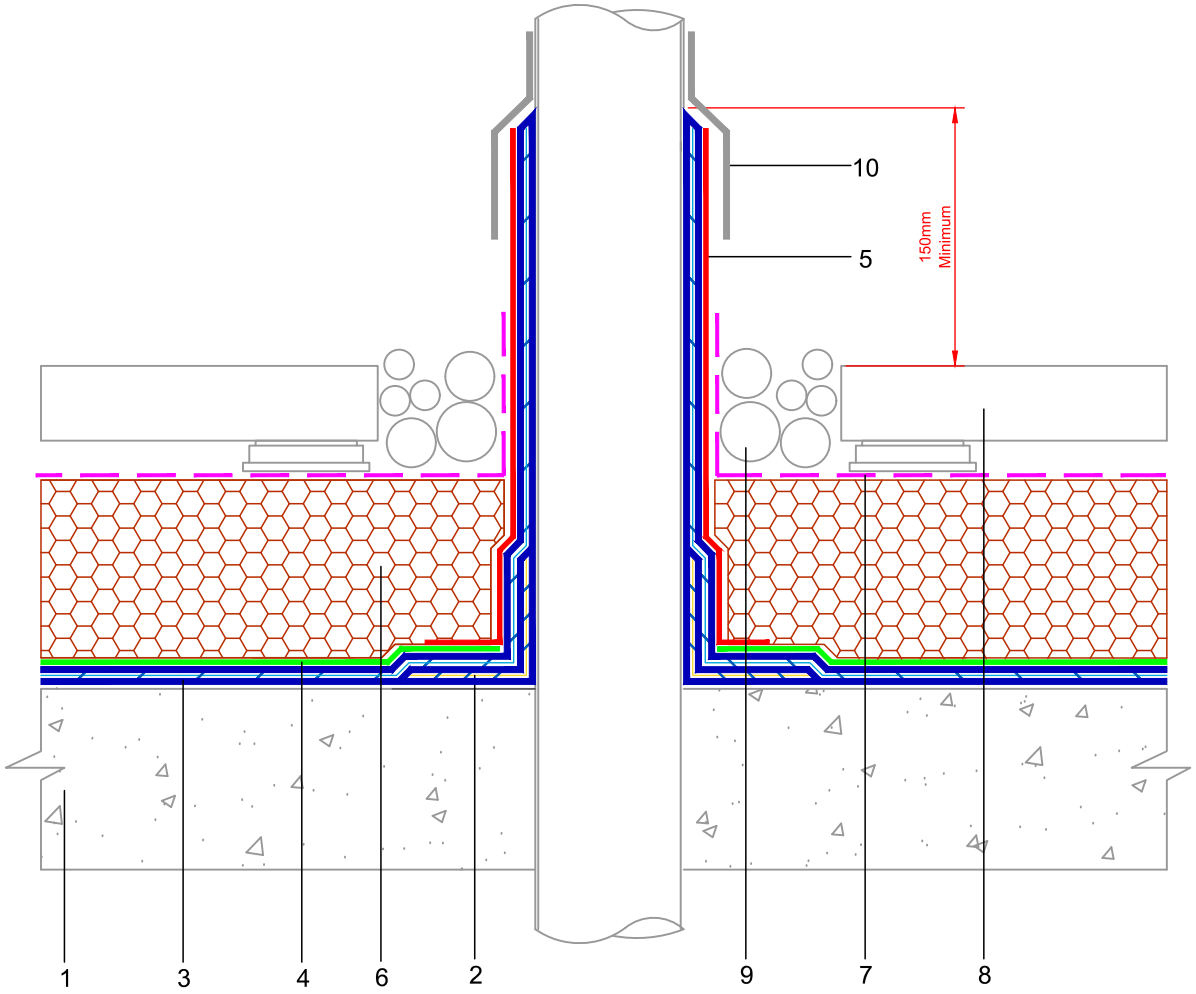
Drawn by:	Revision:	Sheet No:
ME JDA		PT.3G

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM PAVING SLABS ON PROPRIETARY SUPPORTS
9. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
10. COLLAR FLASHING

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STANDARD DETAIL

Drawing Title:

TYPICAL COLD METAL PIPE PENETRATION

Date:	Scale:
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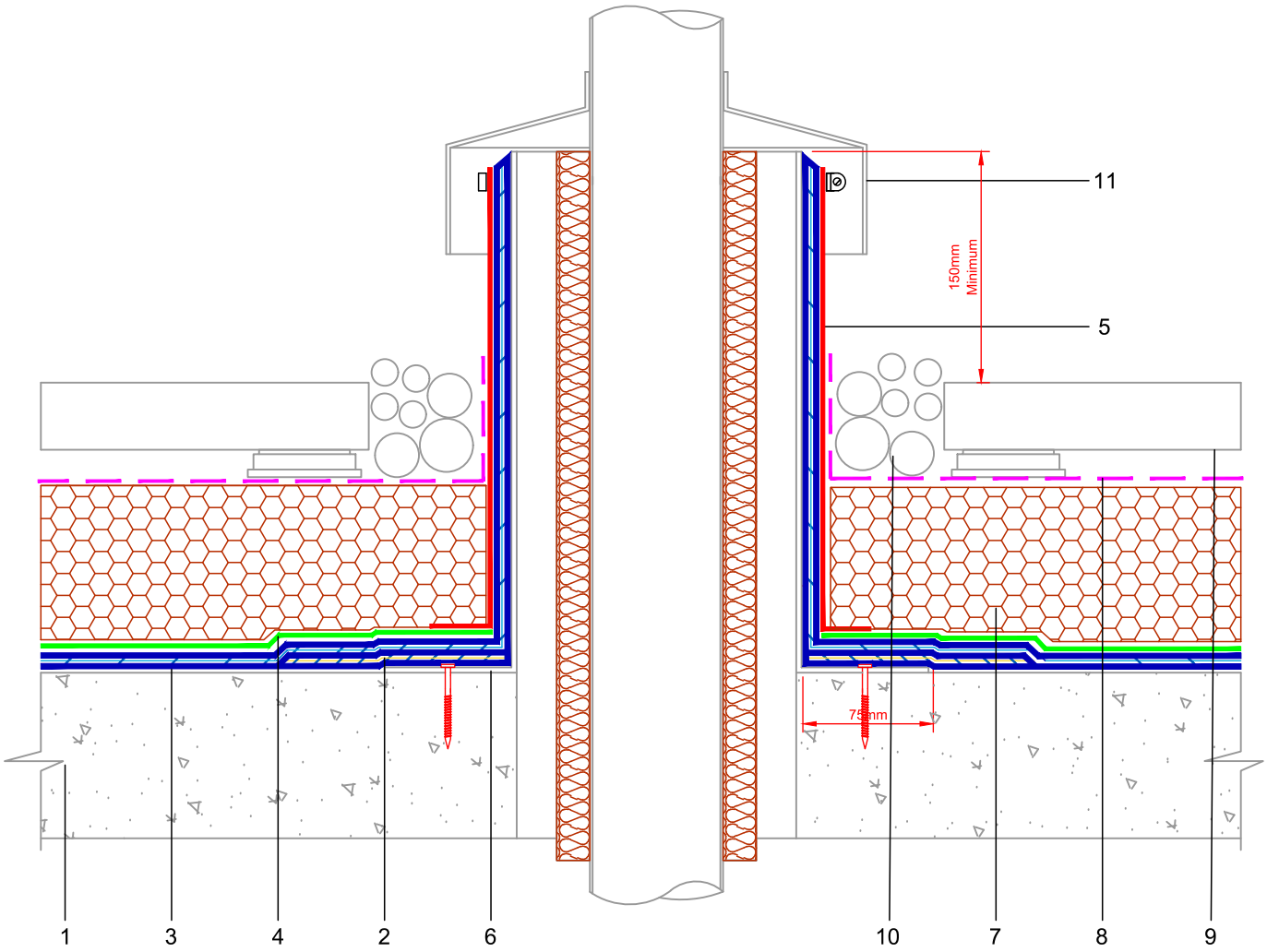
ME JDA		PT.4A

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.



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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL HOT PIPE PENETRATION

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
11. PIPE COLLAR FLASHING

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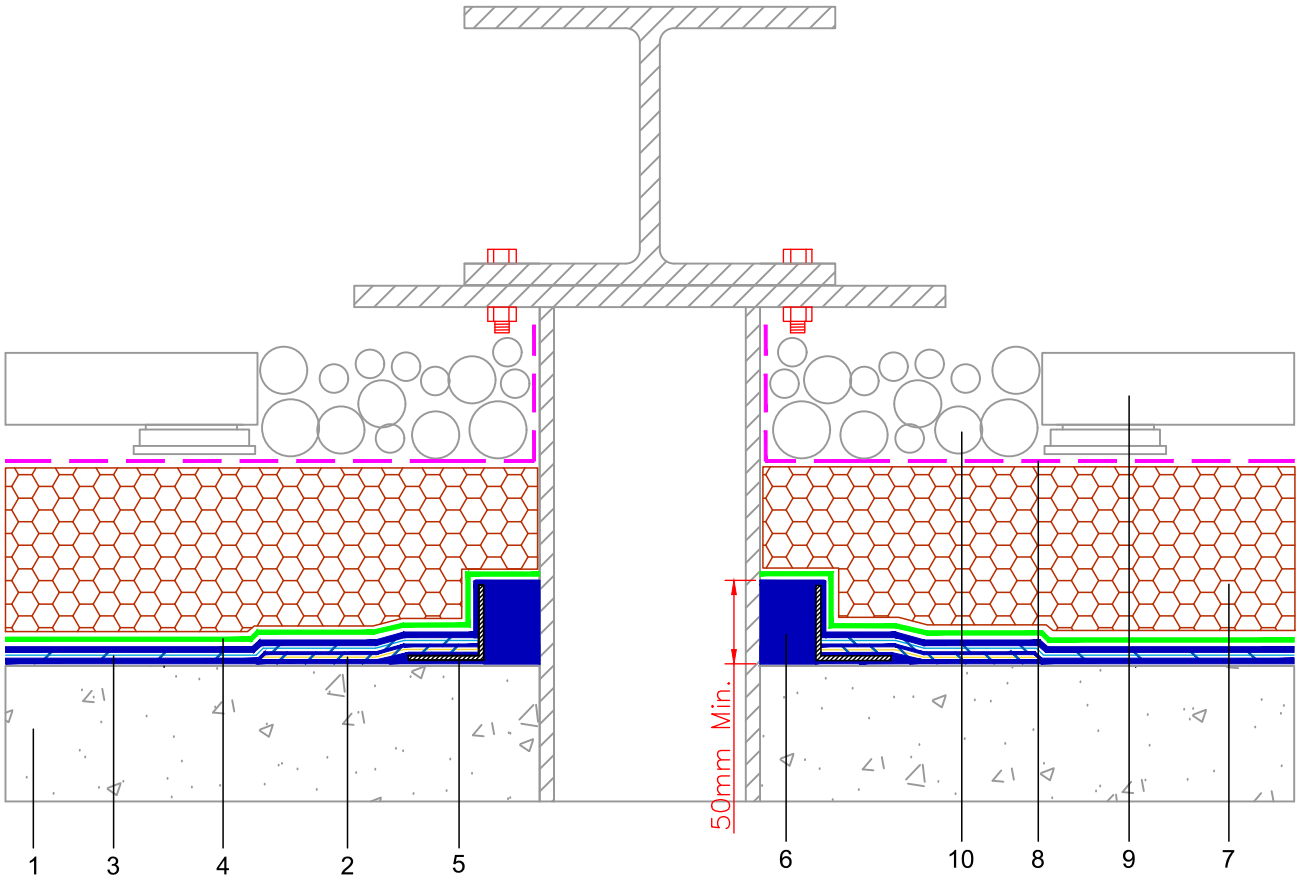
ME JDA		PT.4B

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 20 - 40mm washed rounded ballast or 40mm 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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Hot Melt Waterproofing System

TECHNICAL SERVICES
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STANDARD DETAIL

Drawing Title:

TYPICAL PITCH POCKET

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

Date:	Scale:
November 2018	NTS

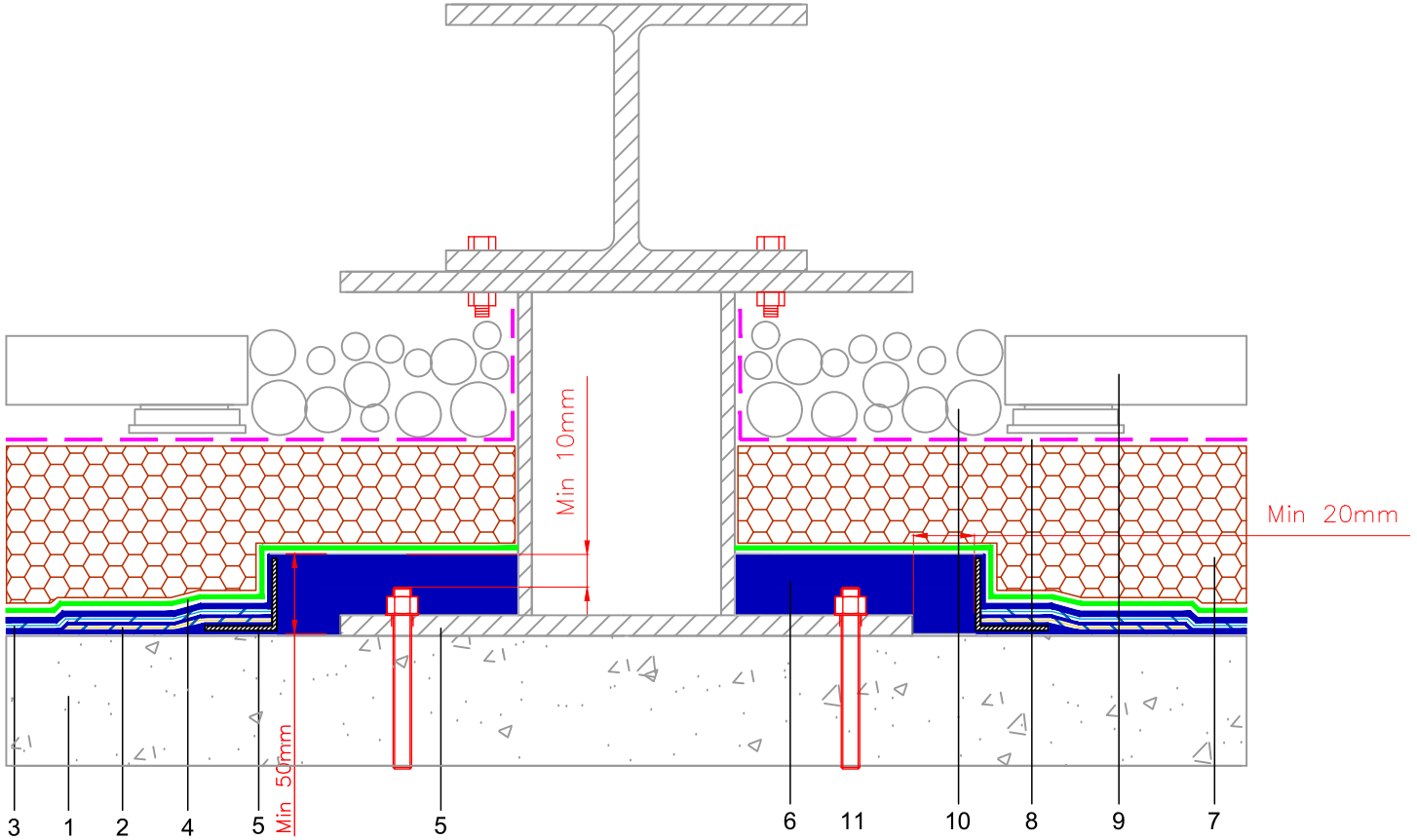
Drawn by:	Revision:	Sheet No:
ME JDA		PT.4C (A)

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL PITCH POCKET
(BASE PLATE)

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE

Date:	Scale:
November 2018	NTS

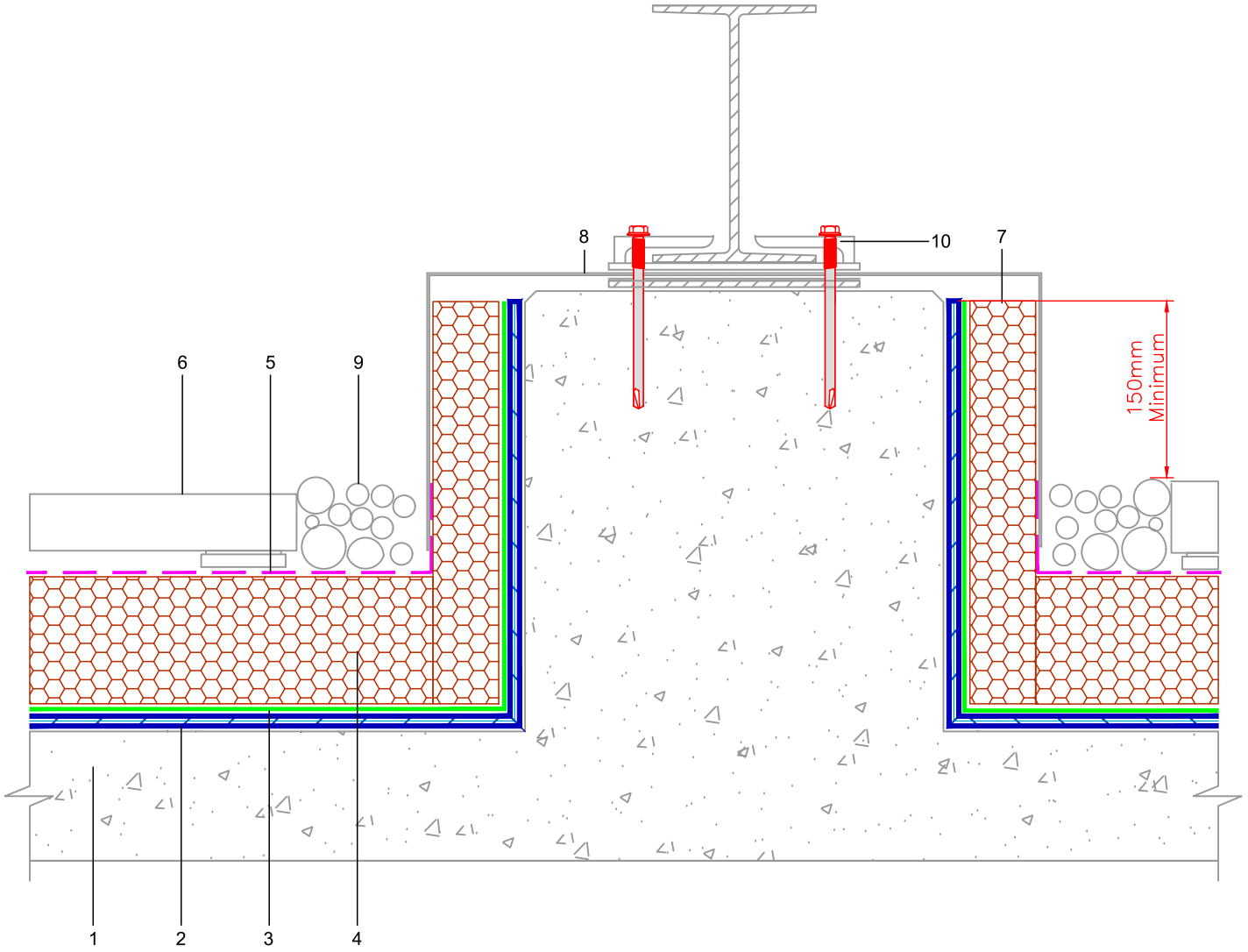
Drawn by:	Revision:	Sheet No:
ME JDA		PT.4C (B)

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. IKO ENERTHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD
8. METAL FLASHING
9. MINIMUM 50MM LAYER 20-40MM ROUNDED WASHED AGGREGATE
10. PLANT SUPPORT STRUCTURE FIXED USING SEALING WASHERS ABOVE AND BELOW THE METAL FLASHING

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STANDARD DETAIL

Drawing Title:

TYPICAL PLINTH

Date:	Scale:
November 2018	NTS

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

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 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (120Kg/M2).

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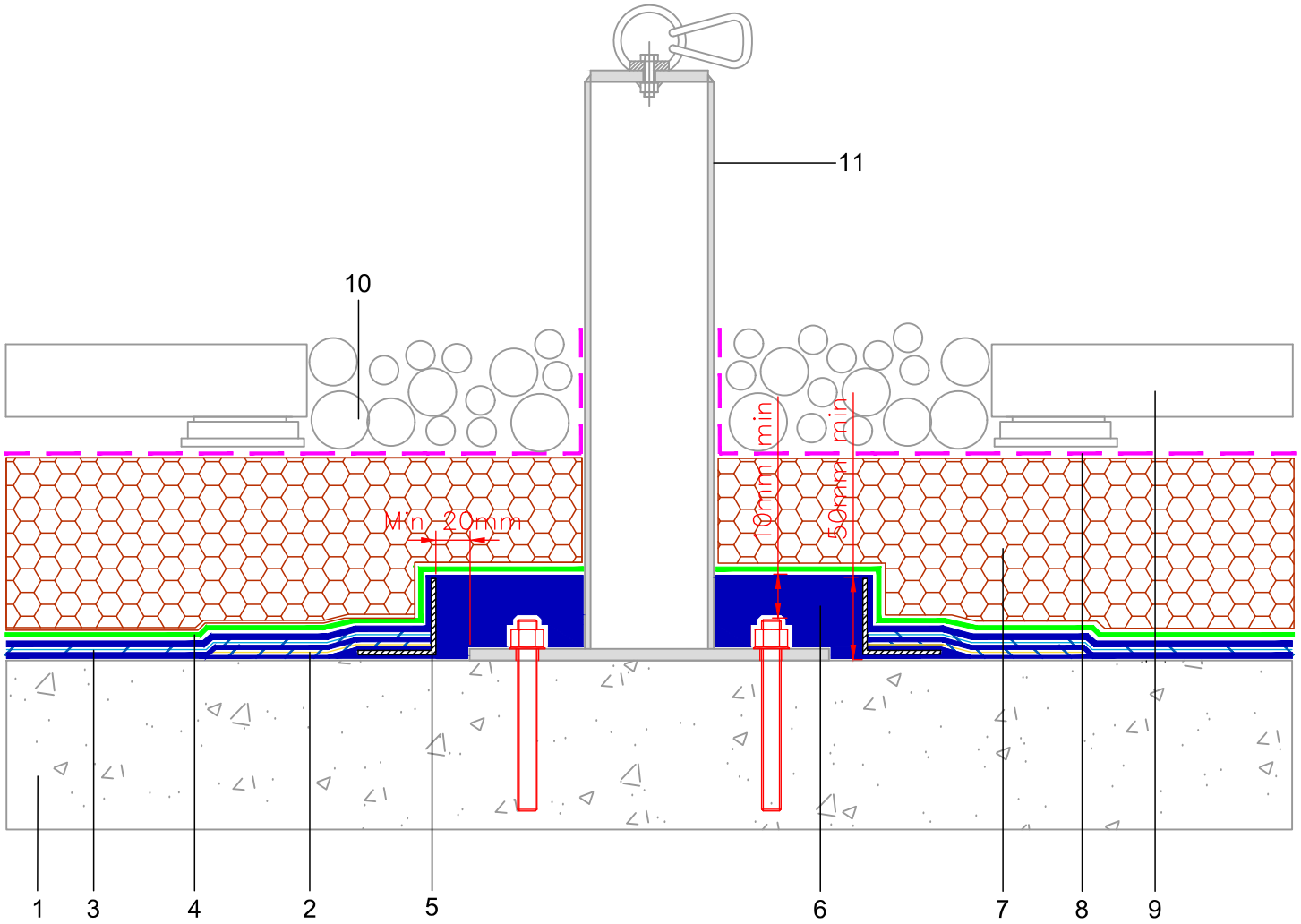

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STANDARD DETAIL

Drawing Title:

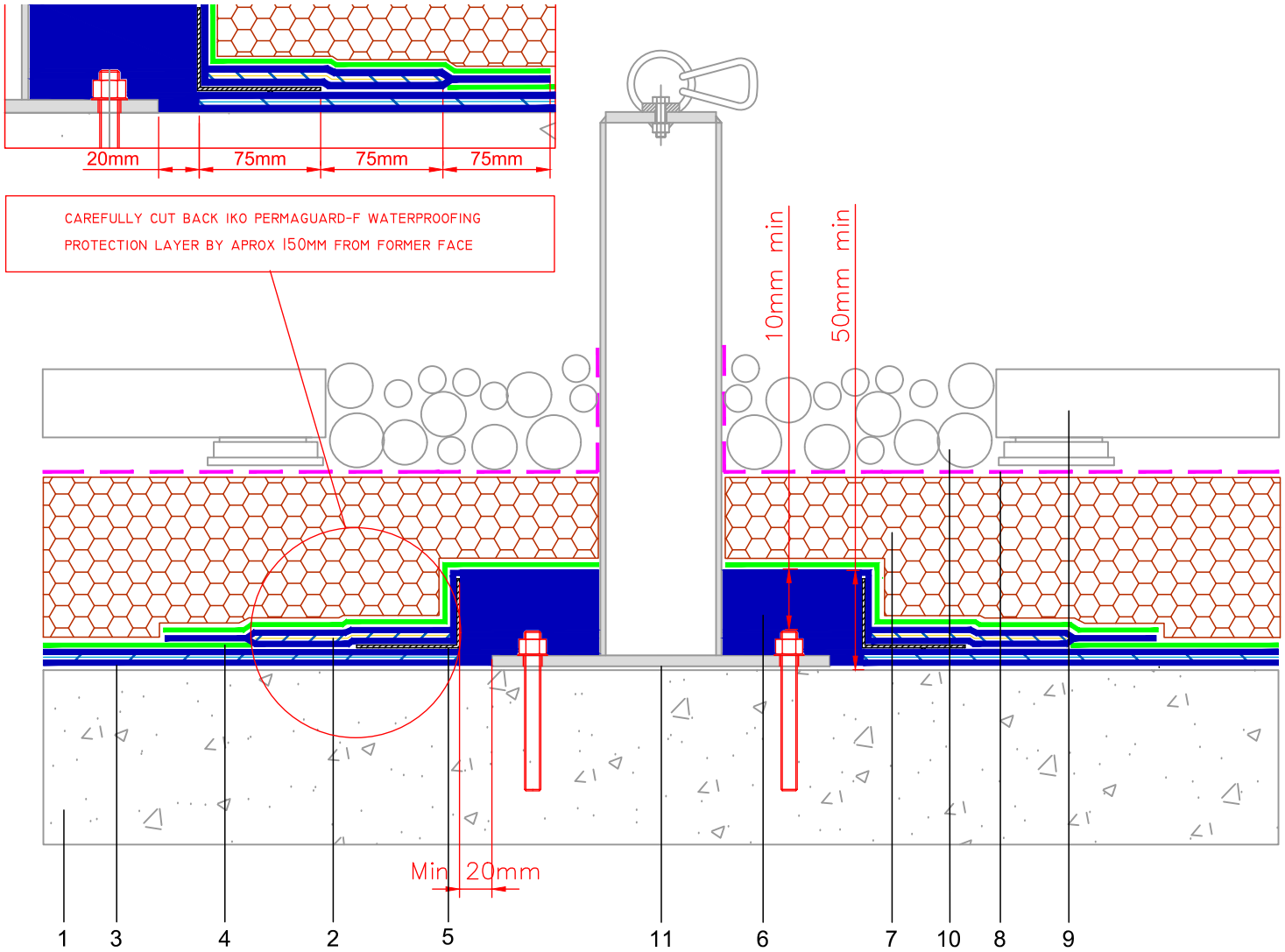
TYPICAL MANSAFE POST

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
11. MANSAFE POST

Date:	Scale:
November 2018	NTS

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



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 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (120Kg/M2).

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STANDARD DETAIL

Drawing Title:

TYPICAL RETROFIT PITCHPOCKET MANSAFE

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
11. PROPRIETARY MANSAFE POST

Date:	Scale:
November 2018	NTS

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

Wind Uplift

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

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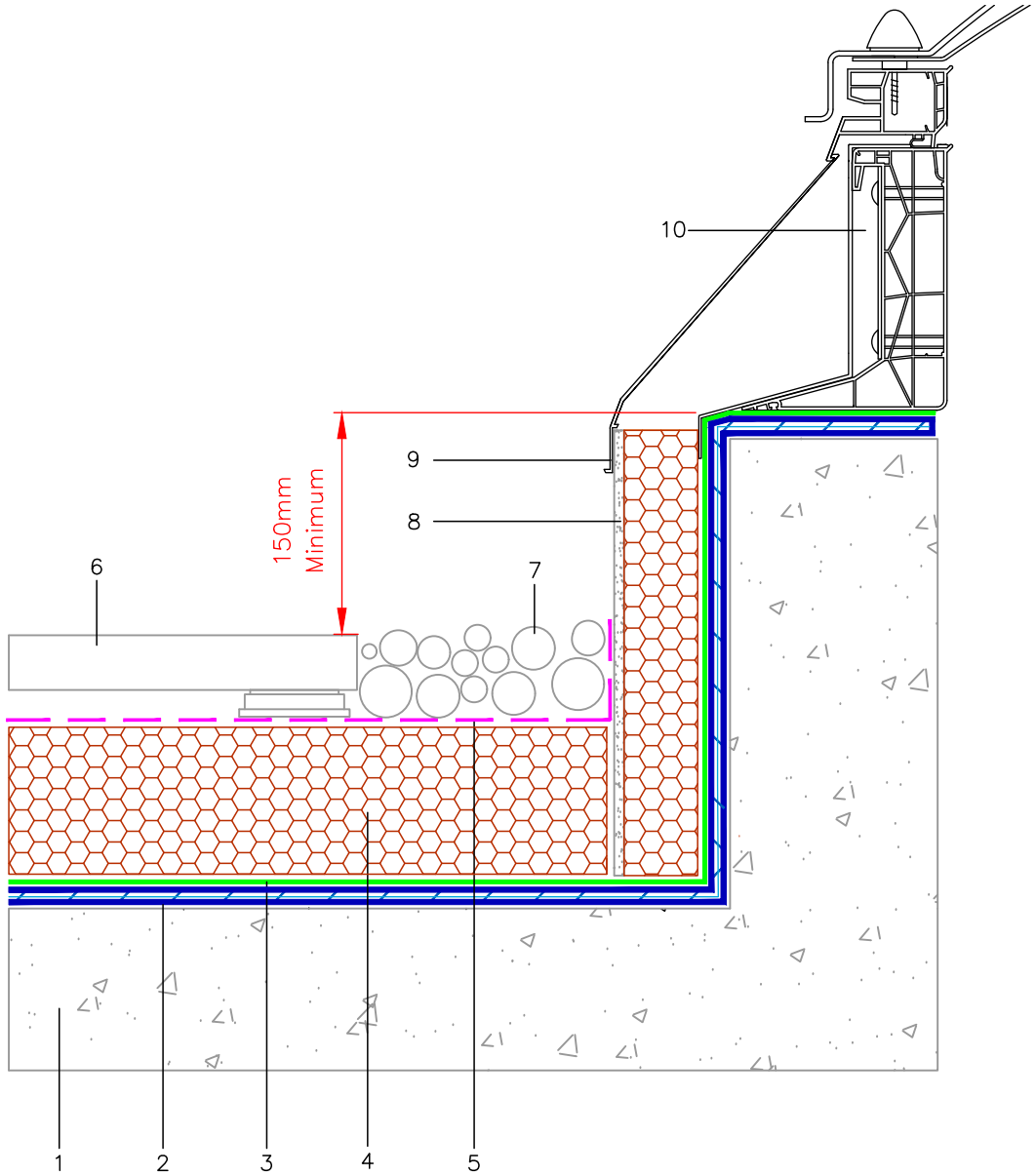

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
8. IKO UPSTAND BOARD INVERTED INSULATION BOARD WITH CEMENT SURFACE
9. INTEGRAL HATCH COWL
10. SMOKE VENT/ACCESS/ROOFLIGHT

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STANDARD DETAIL

Drawing Title:

TYPICAL SMOKE VENT/ROOF LIGHT/ACCESS HATCH (SUPERLITE)

Date:	Scale:
November 2018	NTS

Drawn by:	Revision:	Sheet No:
ME JDA		PT.4H

Wind Uplift

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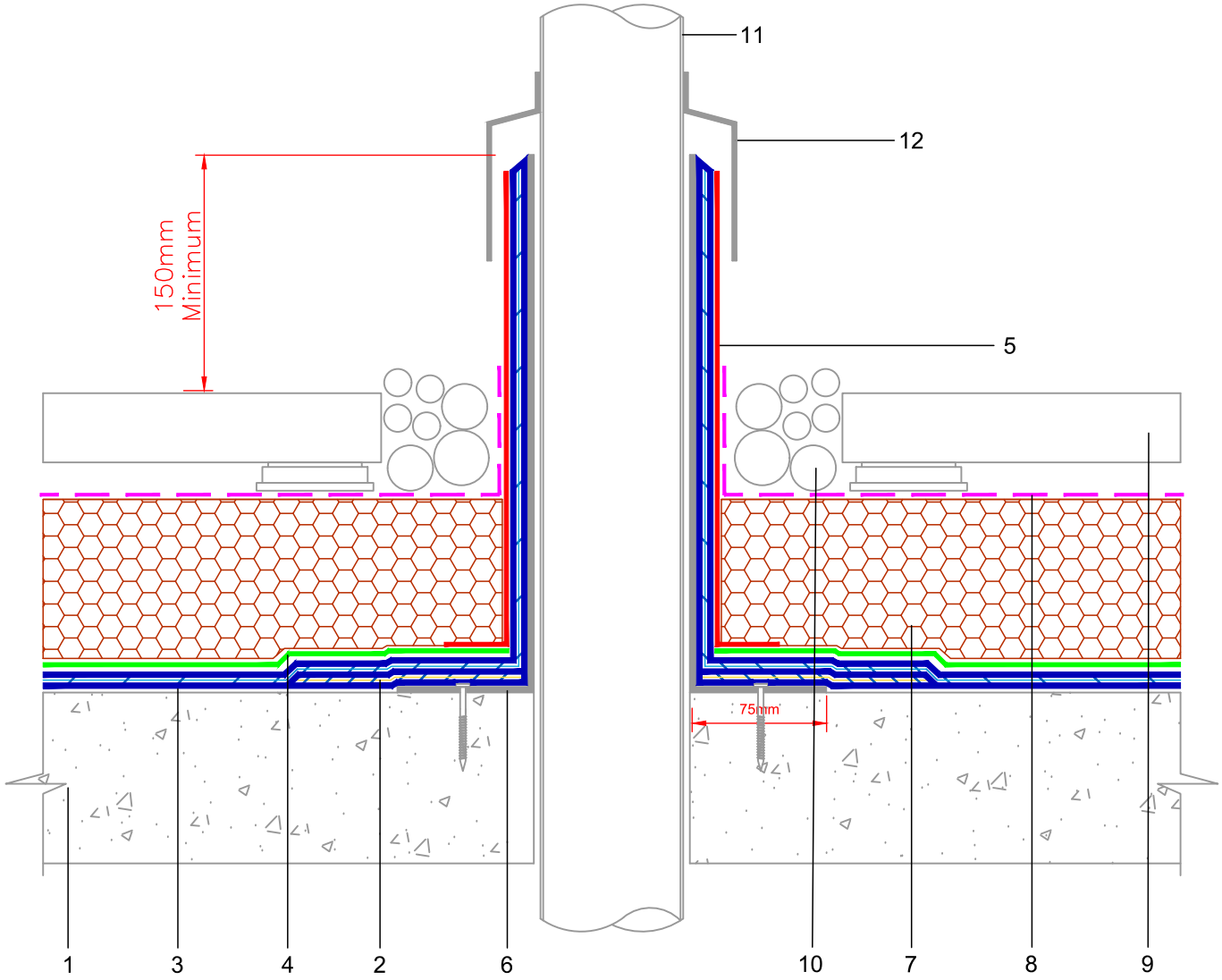

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STANDARD DETAIL

Drawing Title:

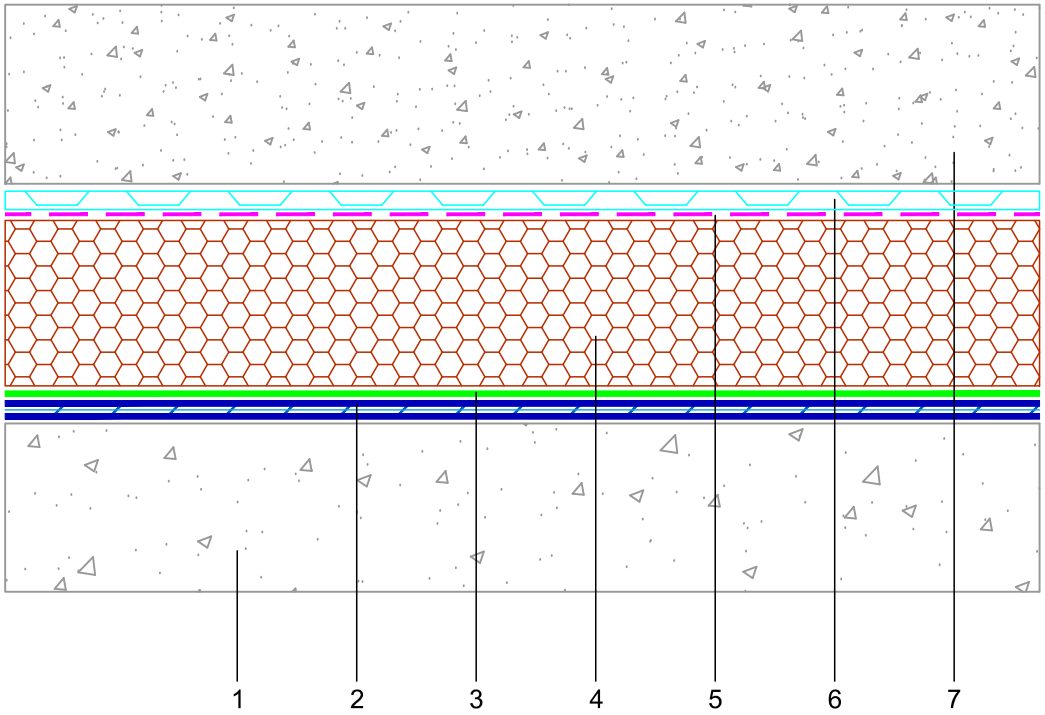
TYPICAL PLASTIC PIPE WITH METAL SLEEVE PENETRATION

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC ECOWRAP
3. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
4. PERMAGUARD-F PROTECTION LAYER
5. PERMAGUARD-M PROTECTION LAYER (FOR ANY EXPOSED AREA)
6. METAL PIPE SLEEVE
7. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD
8. IKO ENERTHERM WCL (WATER CONTROL LAYER)
9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
11. PLASTIC PIPE
12. COLLAR FLASHING

Date:	Scale:
November 2018	NTS

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



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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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STANDARD DETAIL

Drawing Title:

TYPICAL FLOATING CONCRETE BASE

Date:	Scale:
November 2018	NTS

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

Wind Uplift

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

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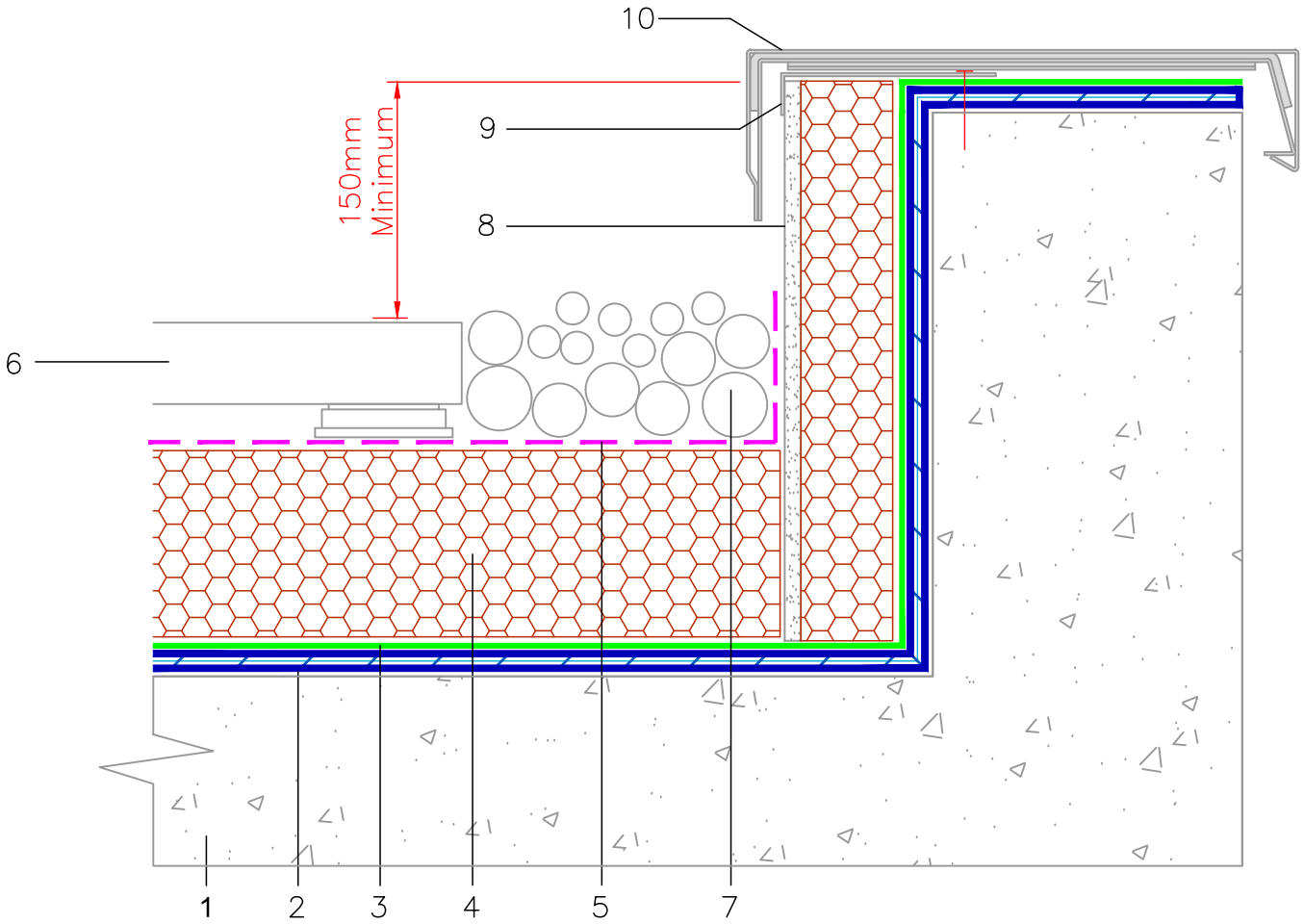

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
8. IKO ENERTHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENTITOUS FACING
9. RETENTION CLIP
10. CAPPING SYSTEM

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STANDARD DETAIL

Drawing Title:

TYPICAL PARAPET WITH CAPPING

Date:	Scale:
November 2018	NTS

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

Wind Uplift

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

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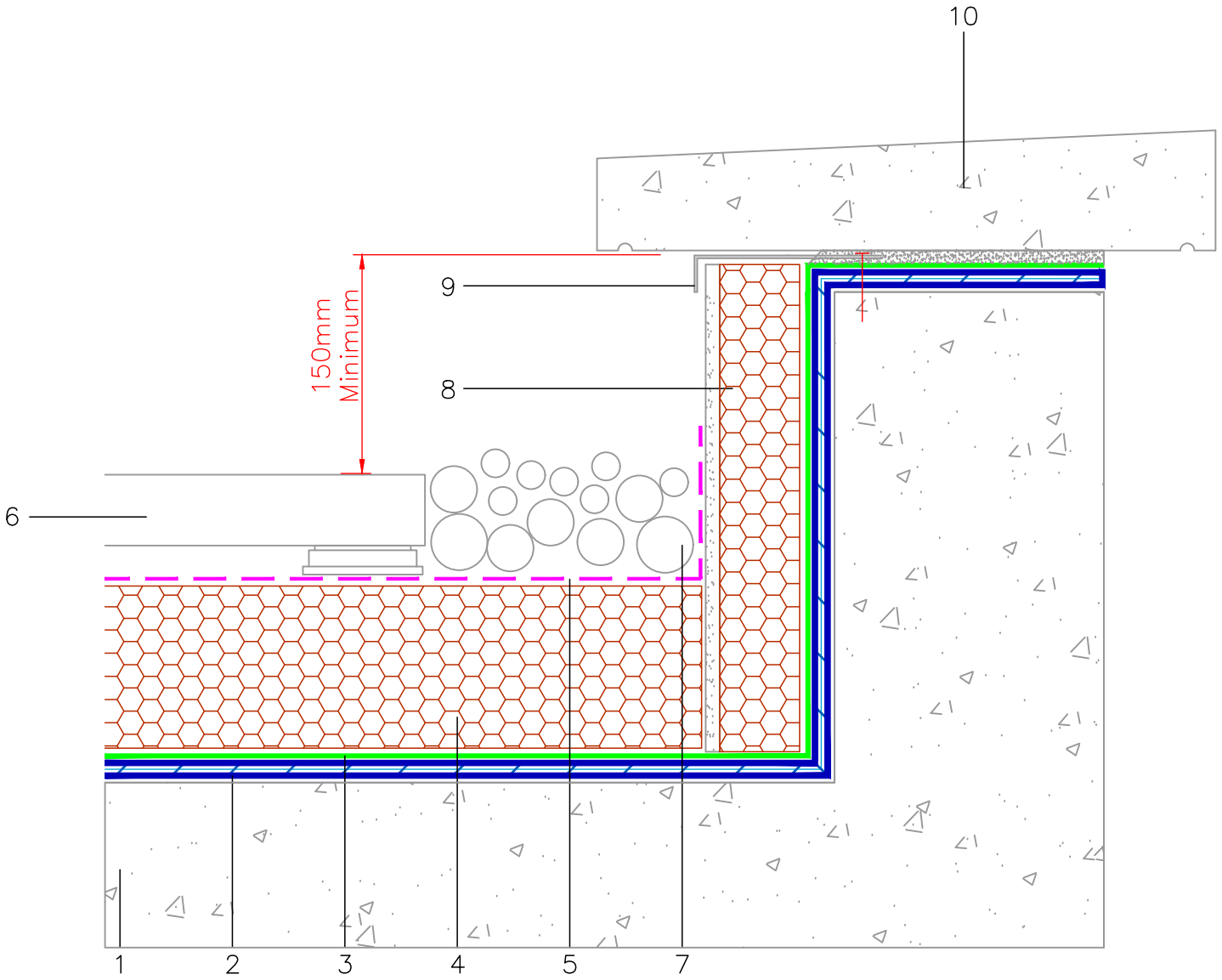

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STANDARD DETAIL

Drawing Title:

TYPICAL PARAPET WITH COPING

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
8. IKO ENERTHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENTITOUS FACING
9. METAL RETENTION CLIP
10. COPING STONE

Date:	Scale:
November 2018	NTS

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

Wind Uplift

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

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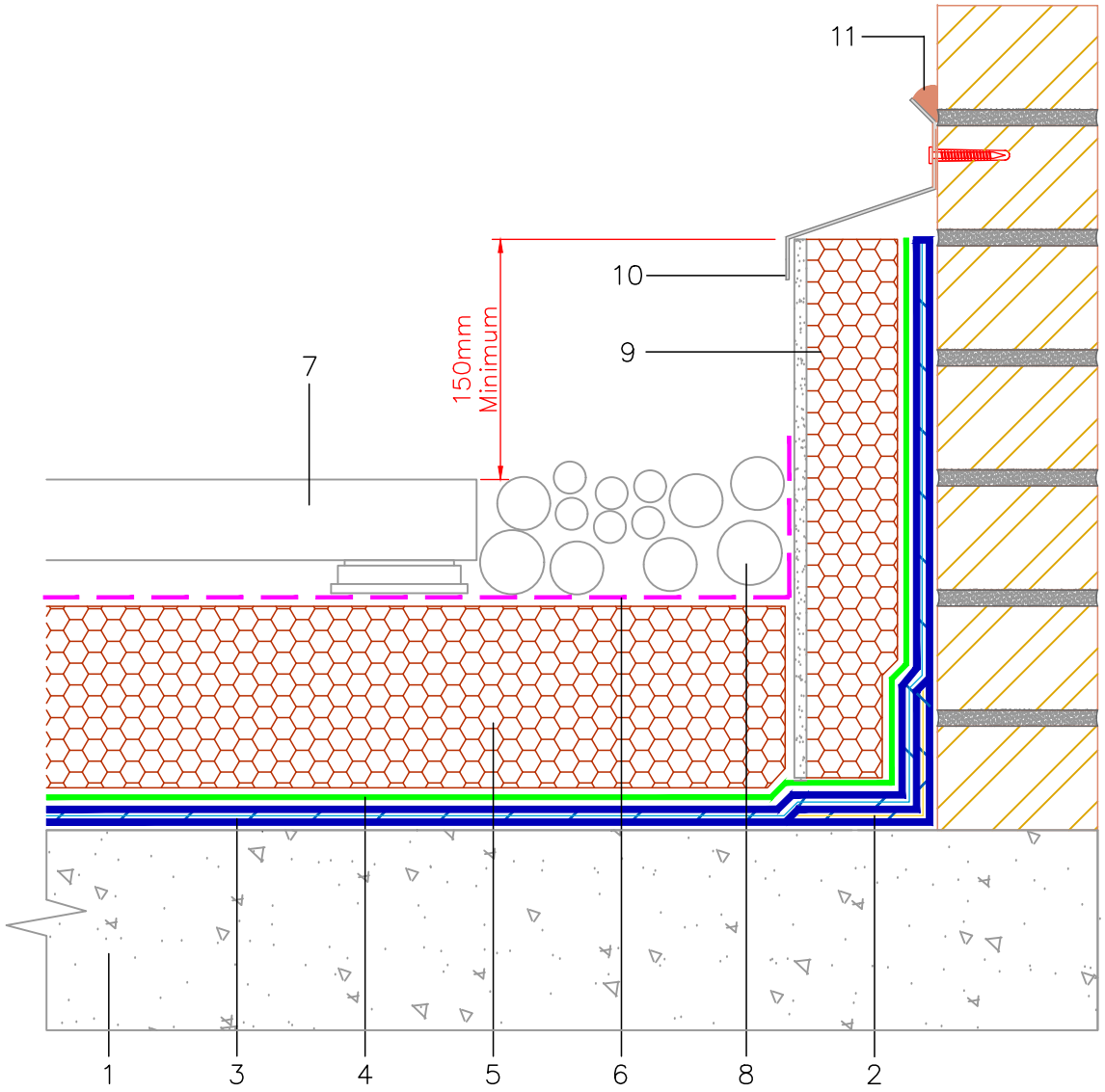

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Internet: www.ikogroup.co.uk
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STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED UPSTAND

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. IKO ENERTHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENTOUS SURFACE
10. METAL COVER FLASHING
11. SEALANT

Date:	Scale:
November 2018	NTS

Drawn by:	Revision:	Sheet No:
ME JDA		PT.6C

Wind Uplift

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This can be achieved with 50mm depth of 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (120Kg/M2).

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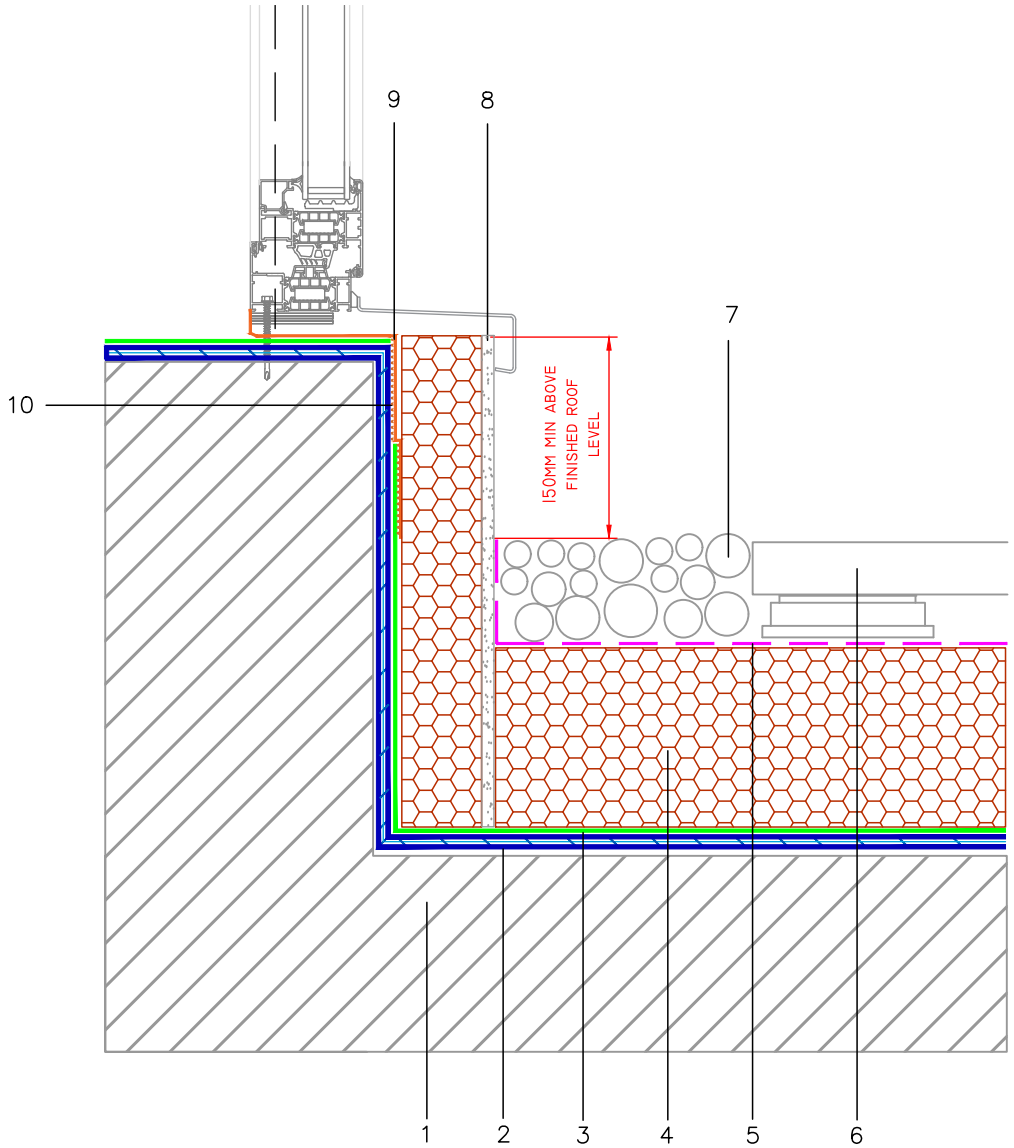

THIS DETAIL REQUIRES THE IKO PERMATEC WATERPROOFING TO BE SCHEDULED FOR INSTALLATION PRIOR TO ANY GLAZING

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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. 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
8. IKO ENERTHERM XPS INSULATION UP-STAND BOARD
9. EPDM LAPPED OVER PERMATEC WATERPROOFING SYSTEM BY OTHERS
10. BITUMEN COMPATIBLE ADHESIVE

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TECHNICAL SERVICES
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Email: technical.uk@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL CILL DETAIL

Date:	Scale:
November 2018	NTS

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

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.

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.

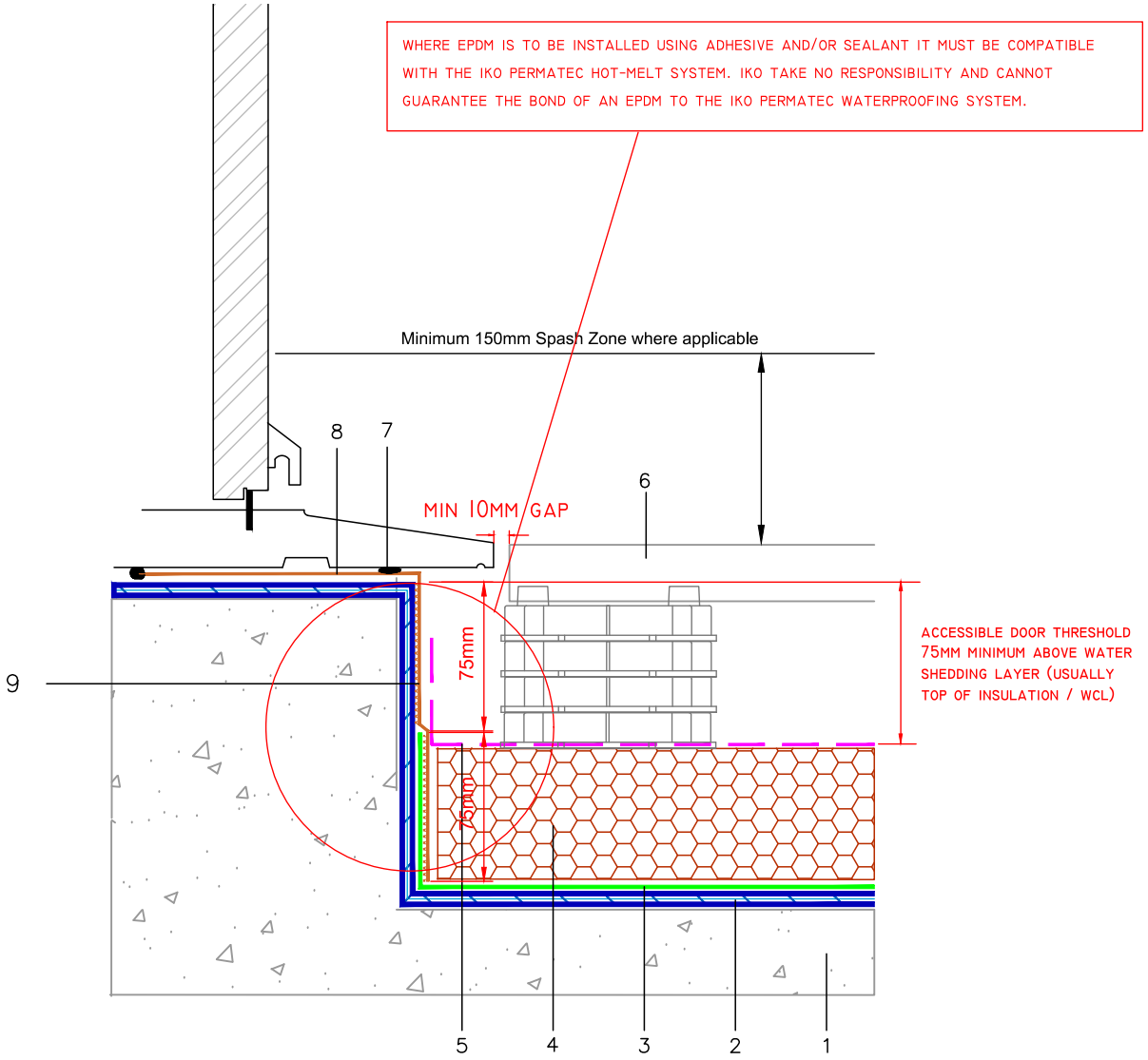
A balcony upstand of minimum 75mm below the underside of the threshold.
For an inverted roof the drainage layer would be the top of the insulation and not the waterproofing layer below. If the 75mm requirement cannot be met then a proprietary drainage channel might be used but only strictly in accordance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

Minimum 150mm splash zone above the decking or paving.
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.



THIS DETAIL IS ACCEPTED BY NHBC AND BUILDING REGULATIONS FOR ACCESSIBLE DOOR THRESHOLDS ONLY.
ALL OTHERS MUST FOLLOW THE BS:6229 WATERPROOFING TO BE TAKEN TO A MINIMUM OF 150MM ABOVE FINISHED ROOF LEVEL.
THIS DETAIL REQUIRES THE IKO PERMATEC WATERPROOFING TO BE SCHEDULED FOR INSTALLATION PRIOR TO ANY DOOR/GLAZING

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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. 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. BITUMEN COMPATIBLE SEALANT
8. EPDM LAPPED OVER PERMATEC WATERPROOFING SYSTEM AS SHOWN

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Hot Melt Waterproofing System

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STANDARD DETAIL

Drawing Title:

TYPICAL LEVEL ACCESS DOOR THRESHOLD

Date:	Scale:
November 2018	NTS

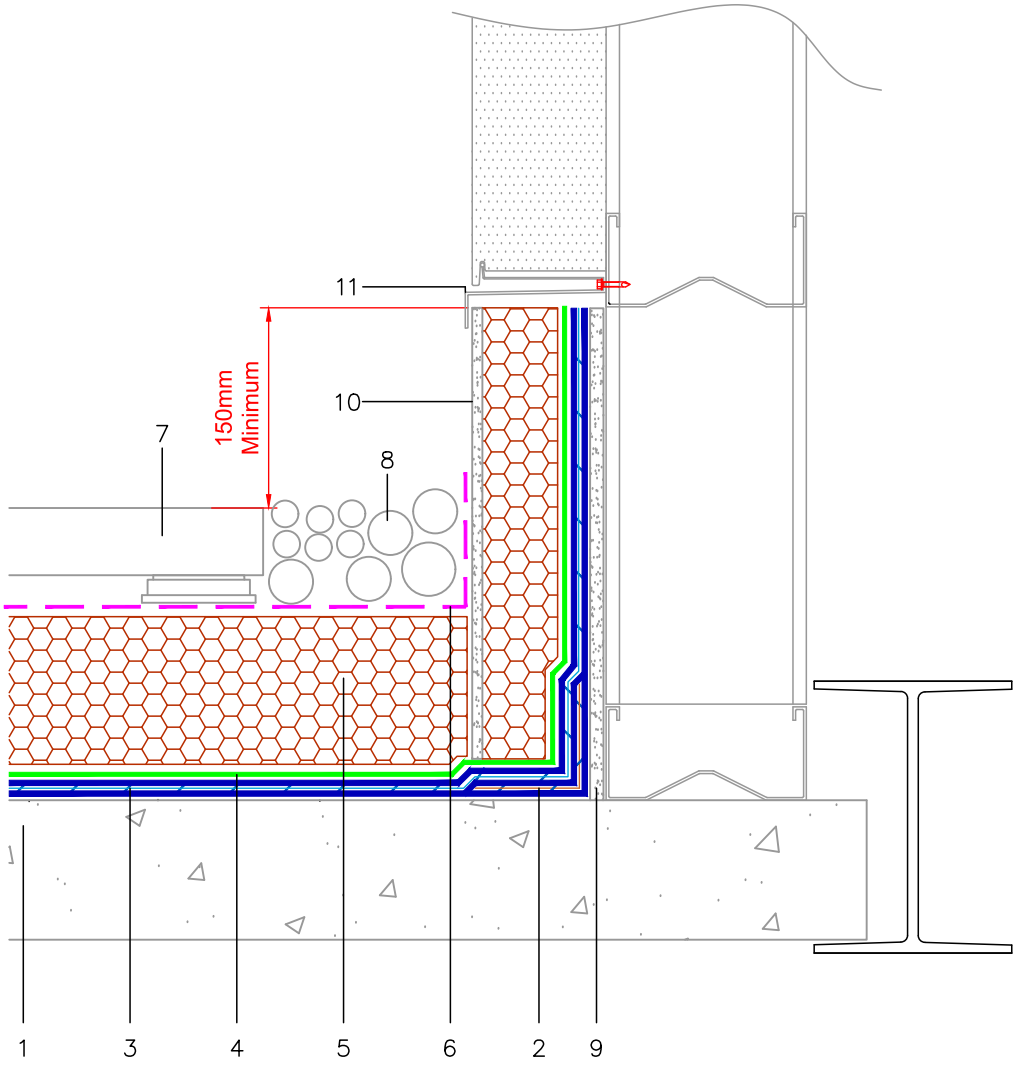
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6E

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. 12MM EXTERIOR GRADE CEMENT BONDED PARTICLE BOARD
10. IKO UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENTITIOUS FACING
11. METAL COVER FLASHING, INSULATION RETENTION CLIP

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Internet: www.ikogroup.co.uk
Email: technical.uk@iko.com

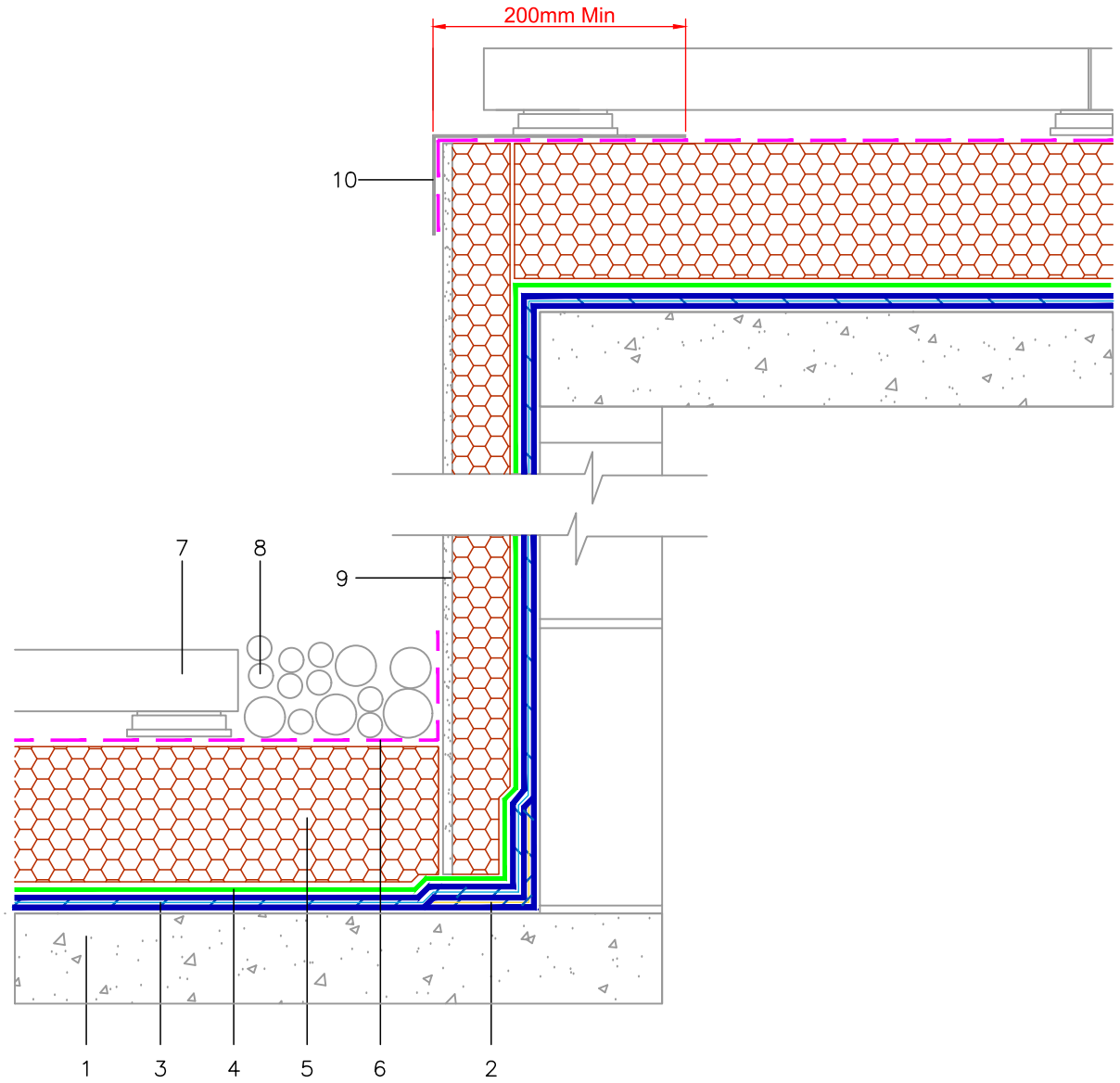
STANDARD DETAIL

Drawing Title:

TYPICAL UP-STAND TO METSEC WALL

Date:	Scale:
November 2018	NTS

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



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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED
CHANGE IN LEVEL

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. INVERTED ROOF INSULATION BOARD CEMENTITIOUS FACING
10. CORROSIVE RESISTANT METAL FLASHING

Date:	Scale:
November 2018	NTS

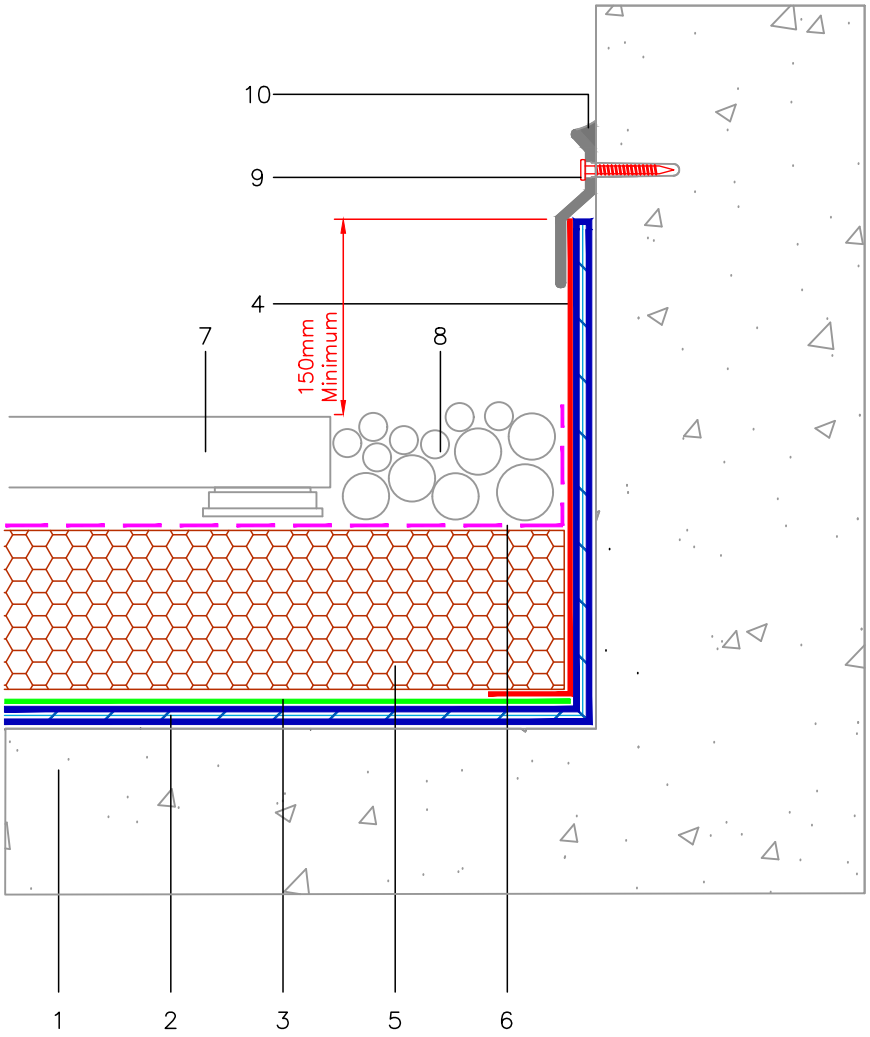
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6H

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL UN-INSULATED UP-STAND WITH TERMINATION BAR

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
3. PERMAGUARD-F PROTECTION LAYER
4. PERMAGUARD-M PROTECTION LAYER (MINERAL FACED, USED FOR EXPOSED AREAS)
5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD
6. IKO ENERTHERM WCL (WATER CONTROL LAYER)
7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. TERMINATION BAR WITH FIXING
10. SEALANT

Date:	Scale:
November 2018	NTS

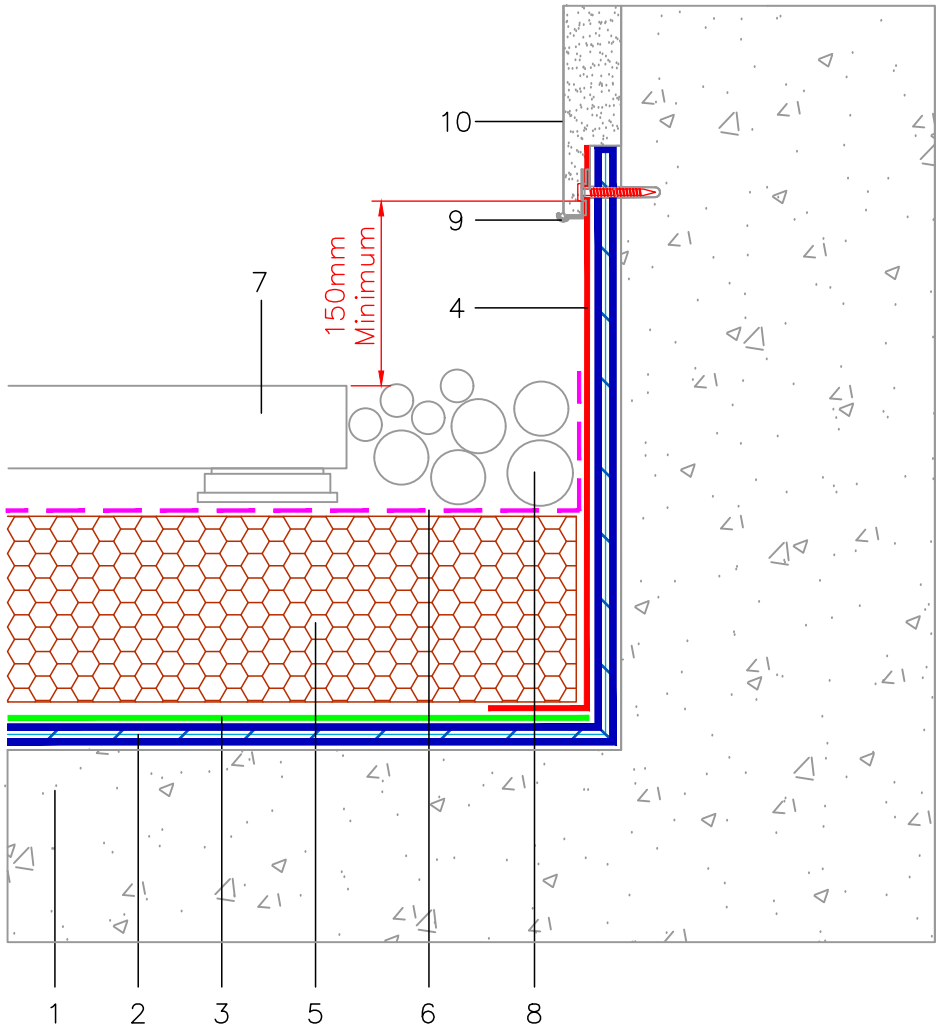
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6I

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO COATS OF PERMATEC ECOWRAP INCORPORATING PERMAFLASH-R REINFORCEMENT
3. PERMAGUARD-F PROTECTION LAYER
4. PERMAGUARD-M PROTECTION LAYER (MINERAL FACED, USED FOR EXPOSED AREAS)
5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD
6. IKO ENERTHERM WCL (WATER CONTROL LAYER)
7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. RENDER STOP BEAD
10. SURFACE RENDER

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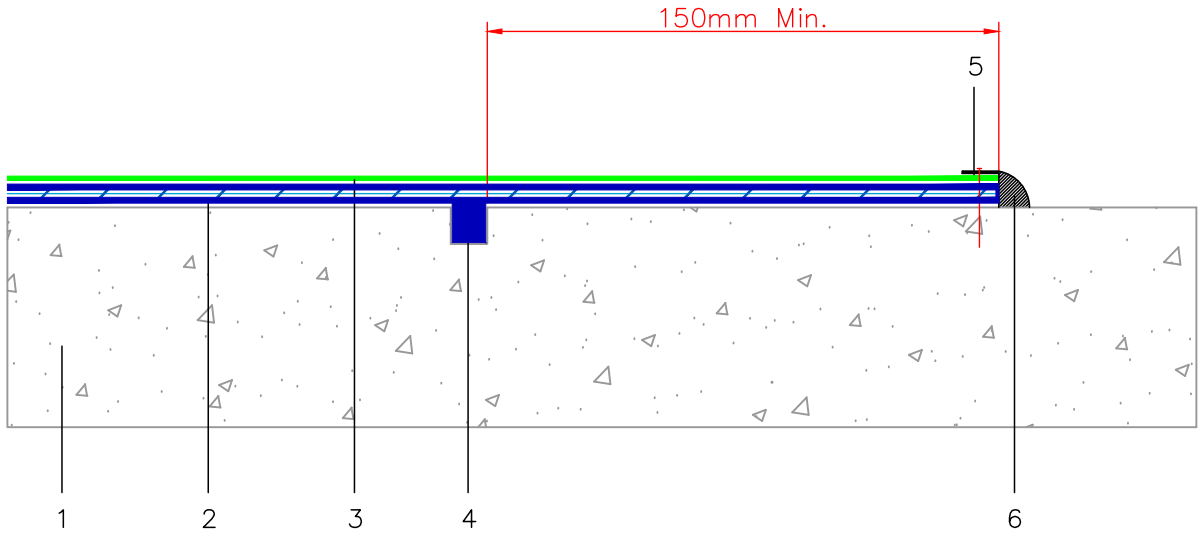
STANDARD DETAIL

Drawing Title:

TYPICAL RENDERED UP-STAND

Date:	Scale:
November 2018	NTS

Drawn by:	Revision:	Sheet No:
ME JDA		PT.6J



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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
6. BITUMEN COMPATIBLE SEALANT

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STANDARD DETAIL

Drawing Title:

HORIZONTAL EDGE TERMINATION

Date:	Scale:
November 2018	NTS

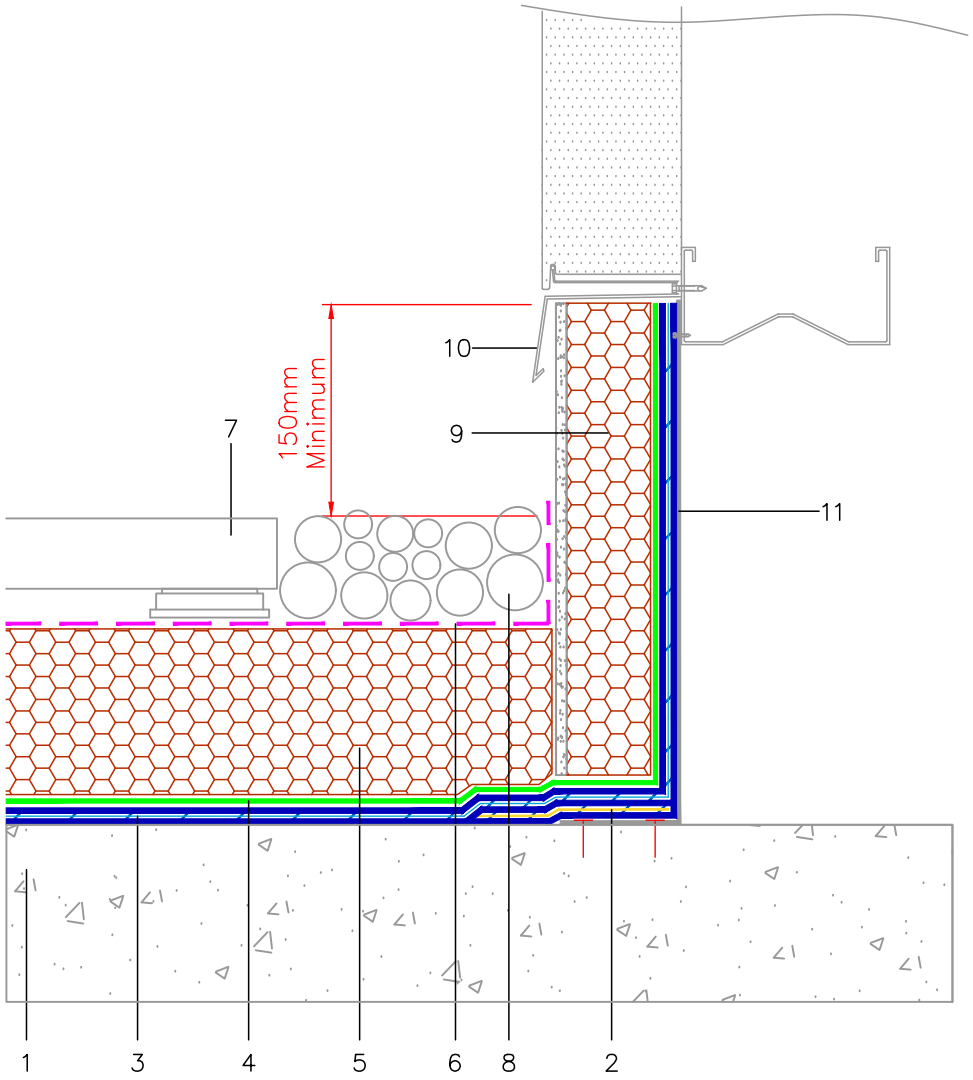
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6K

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC ECOWRAP
3. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
9. INVERTED ROOF INSULATION BOARD WITH CEMENTITIOUS FACING
10. METAL COVER FLASHING
11. GALVANIZED METAL CLOSER

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STANDARD DETAIL

Drawing Title:

TYPICAL METAL ANGLED CLOSER TO UP-STAND

Date:	Scale:
November 2018	NTS

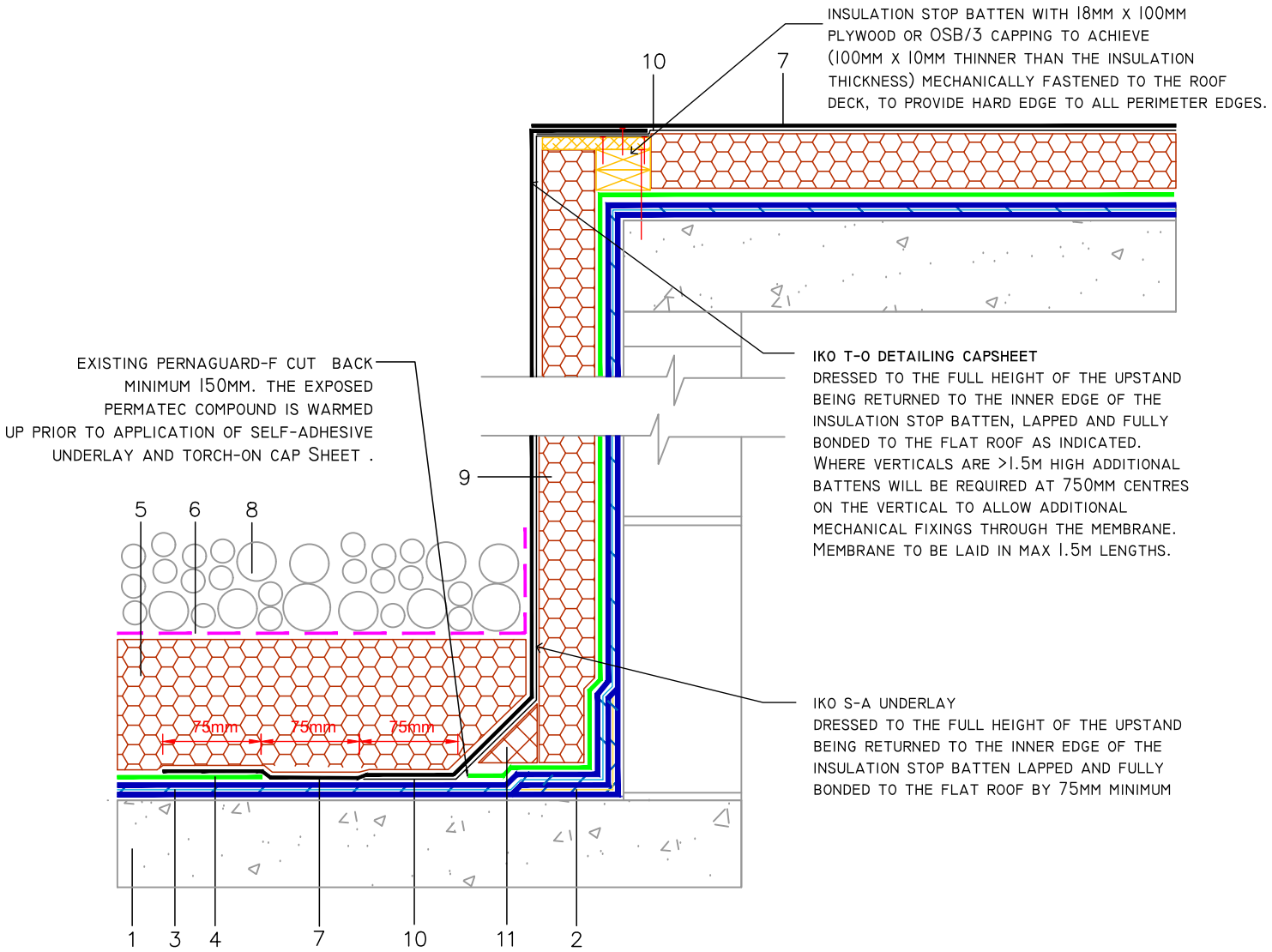
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6L

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 20 - 40mm washed rounded ballast or 40mm 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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STANDARD DETAIL

Drawing Title:

TYPICAL WARM ROOF LIFT OVERRUN JOIN TO WARM ROOF BUR

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC ECOWRAP
3. TWO 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 20-40MM ROUNDED WASHED AGGREGATE
9. IKO ENERTHERM ALU INSULATION BOARD
10. IKO S-A UNDERLAY
11. IKO ANGLE FILLET

Date:	Scale:
November 2018	NTS

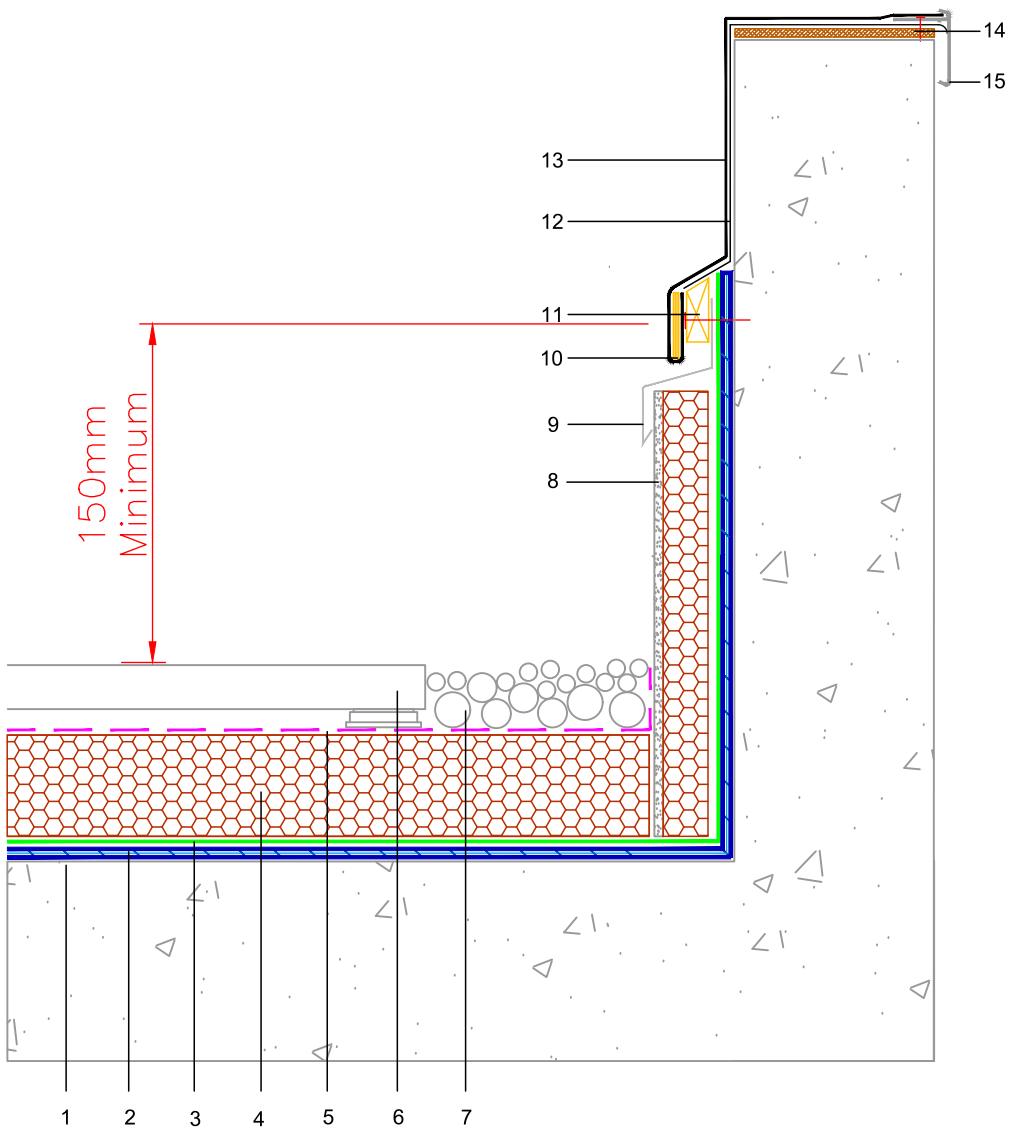
Drawn by:	Revision:	Sheet No:
ME JDA		PT.6M

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS
7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE
8. IKO ENERTHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENTITIOUS SURFACE
9. FLASHING
10. 6MM THICK PLYWOOD DRIP FORMER
11. TIMBER DRIP BATTEN
12. IKO BITUMINOUS UNDERLAY
13. IKO BITUMINOUS CAPSHEET WITH MINERAL FINISH
14. TIMBER CAPPING
15. IKO GRP TRIM

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STANDARD DETAIL

Drawing Title:

TYPICAL PERMATEC TO BUR PARAPET

Date:	Scale:
November 2018	NTS

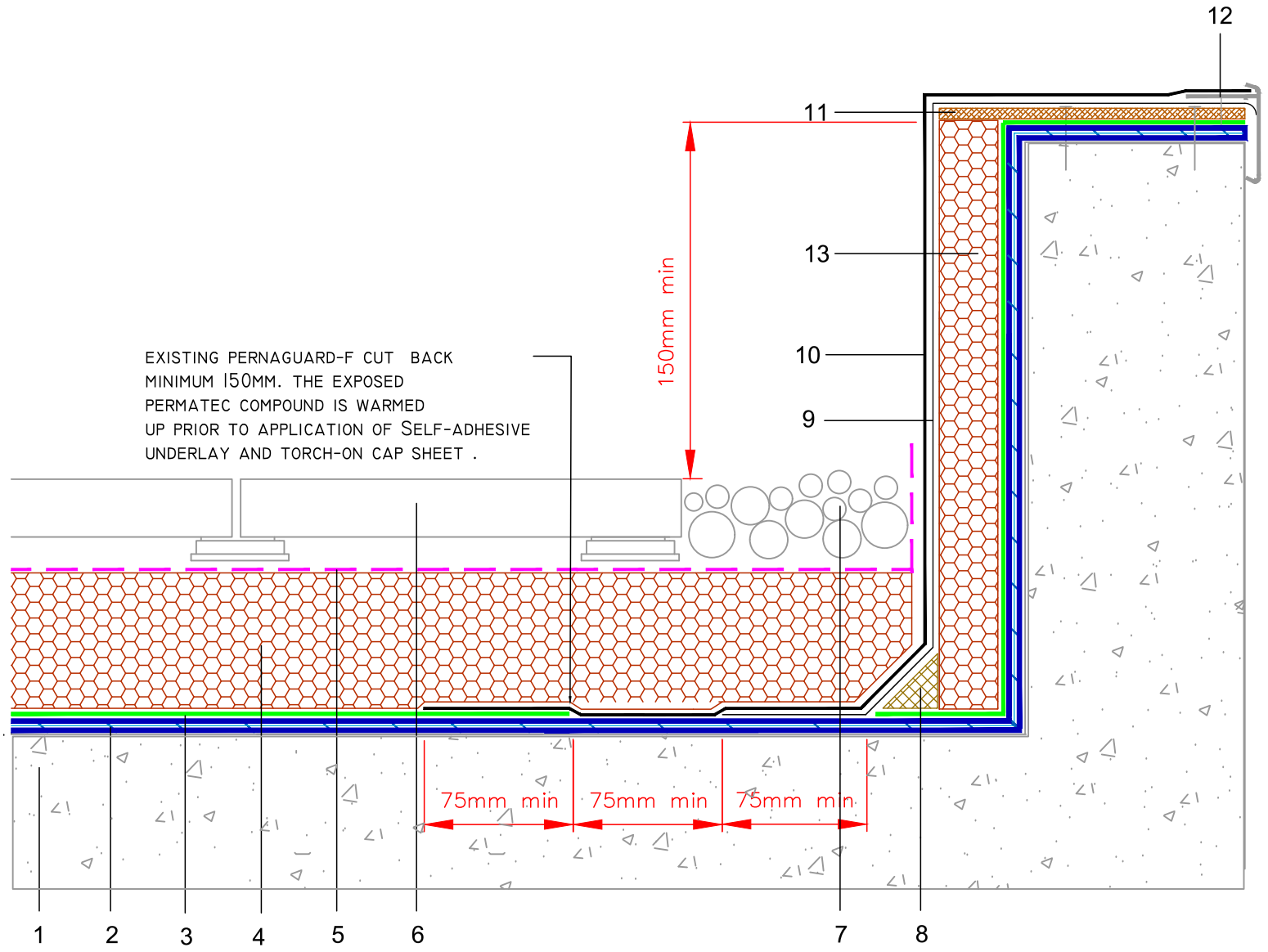
Drawn by:	Revision:	Sheet No:
ME JDA		PT.7A

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 20 - 40mm washed rounded ballast or 40mm 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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 40MM 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

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STANDARD DETAIL

Drawing Title:

TYPICAL WARM BUR PARAPET

Date:	Scale:
November 2018	NTS

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

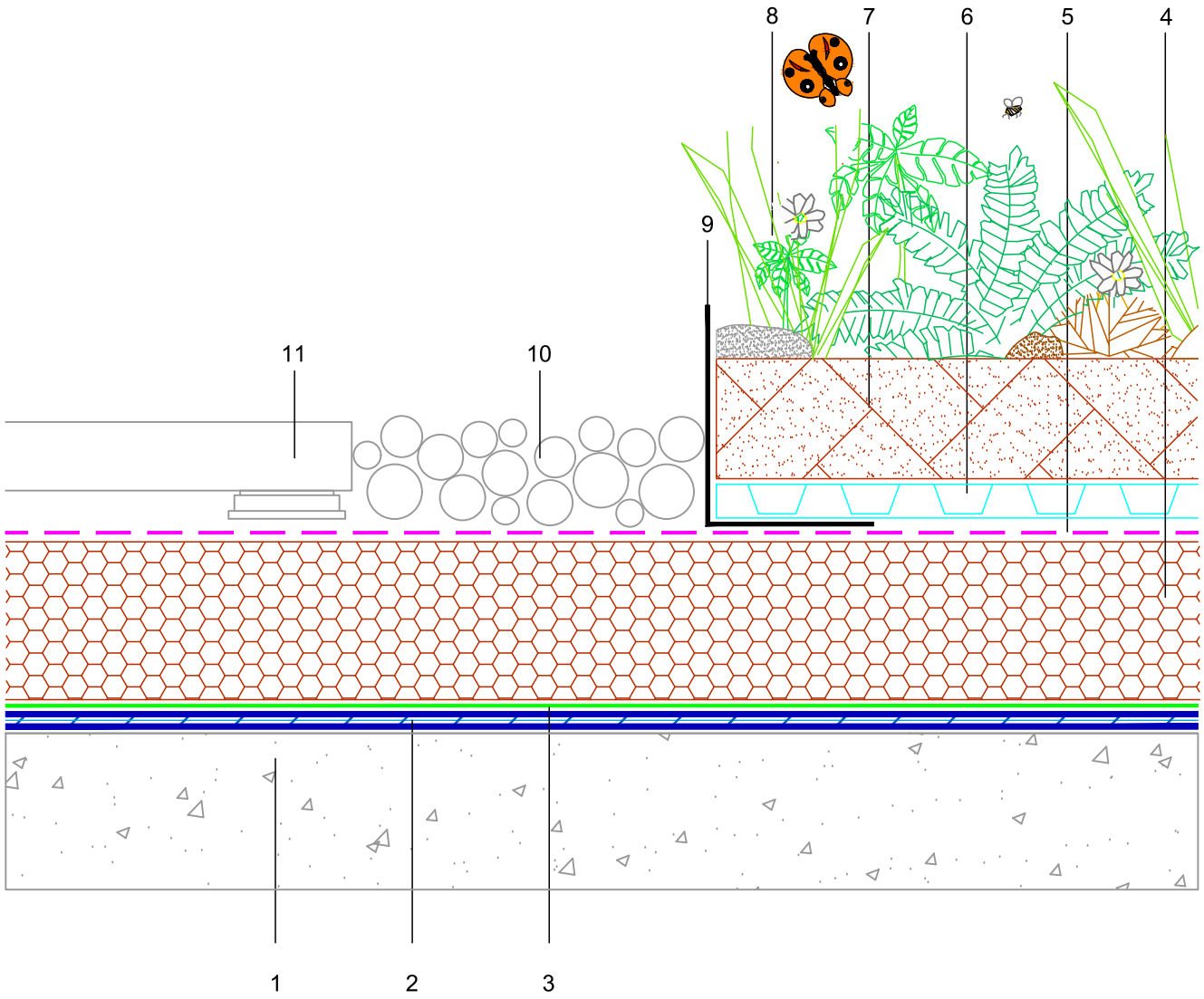
Wind Uplift

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 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (120Kg/M2).

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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STANDARD DETAIL

Drawing Title:

TYPICAL BIODIVERSE/PAVING INTERFACE

SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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 20-40MM ROUNDED WASHED AGGREGATE
11. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS

Date:	Scale:
November 2018	NTS

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

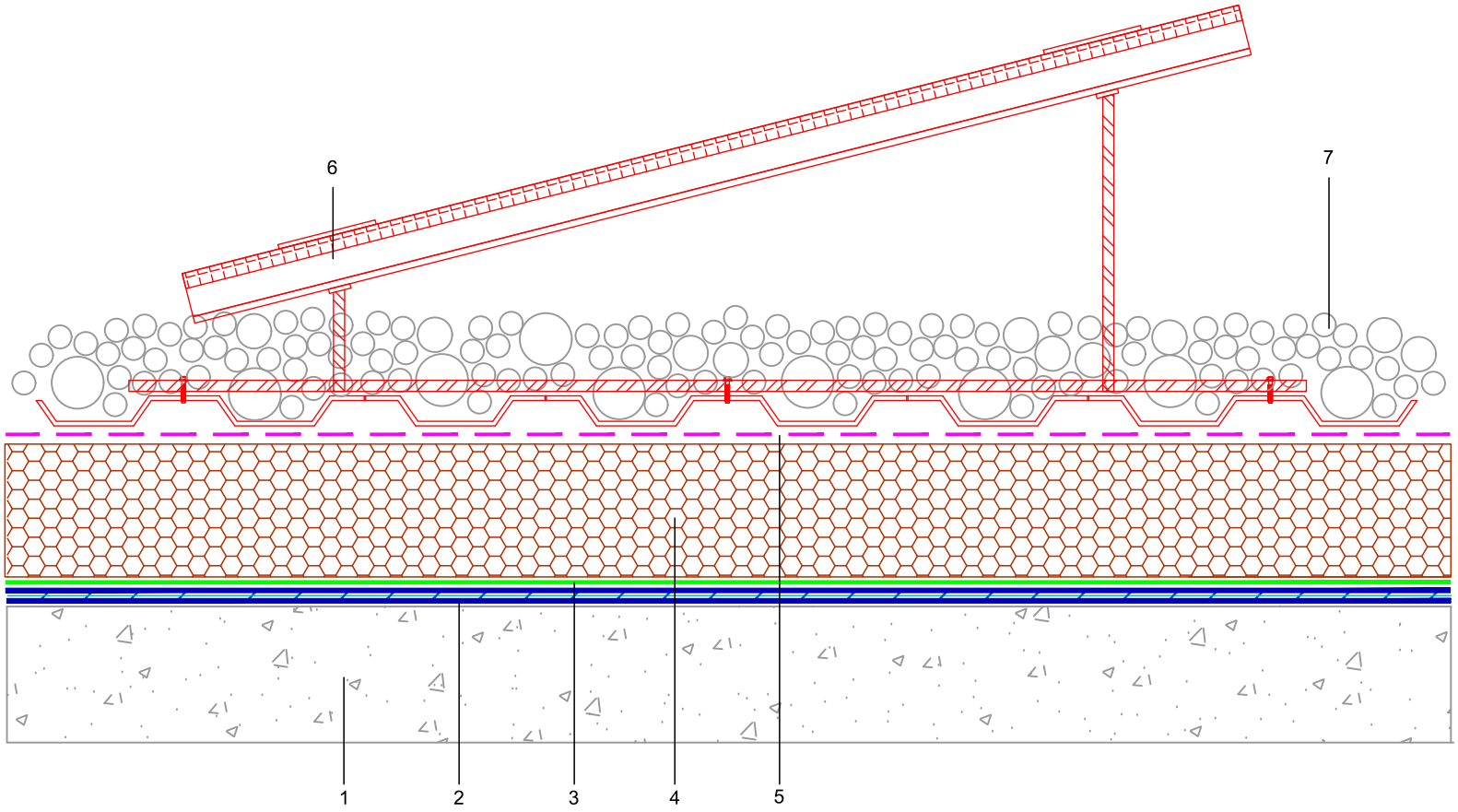
Wind Uplift

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 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (120Kg/M2).

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.



SECTION KEY:

1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER
2. TWO 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. PV PANNEL ASSEMBLY
7. MINIMUM 50MM LAYER OF 20 - 40MM ROUNDED WASHED AGGREGATE OR GREEN ROOF SYSTEM

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Email: technical.uk@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF
WITH PV PANNEL

Date:	Scale:
November 2018	NTS

Drawn by:	Revision:	Sheet No:
JDA		PT.8B