



STANDARD PERMATEC LI
DETAILS PACK 2024

IKOGROUP.CO.UK

TECHNICAL DRAWINGS

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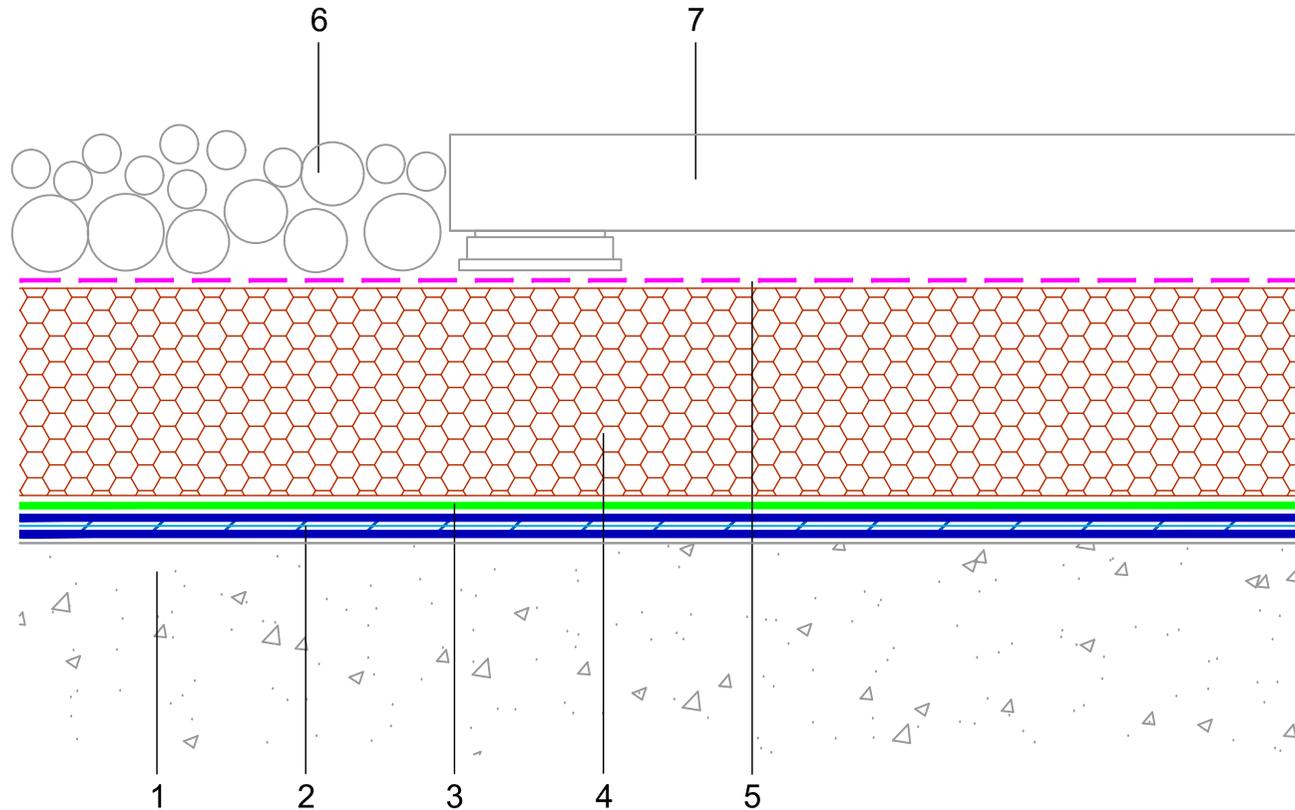
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED DECK

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.1A

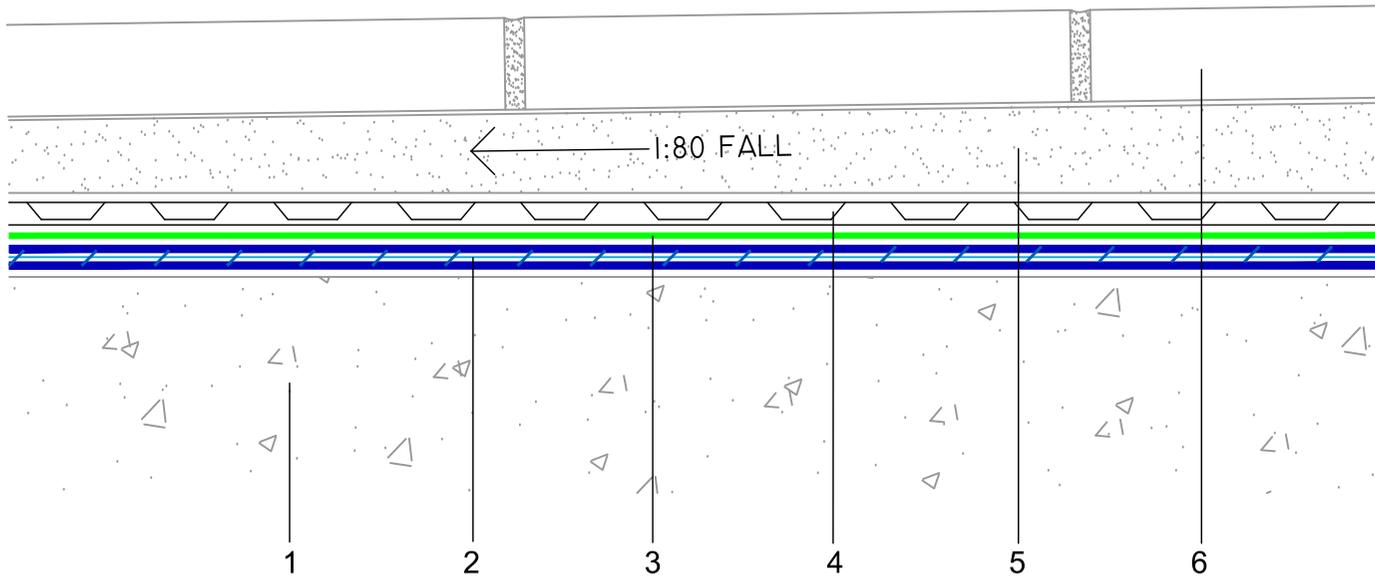
SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. PERMAGUARD-F PROTECTION LAYER | 7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD. | |

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



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL UN-INSULATED PODIUM DECK

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.1B(A)

SECTION KEY:

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

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Wind Uplift

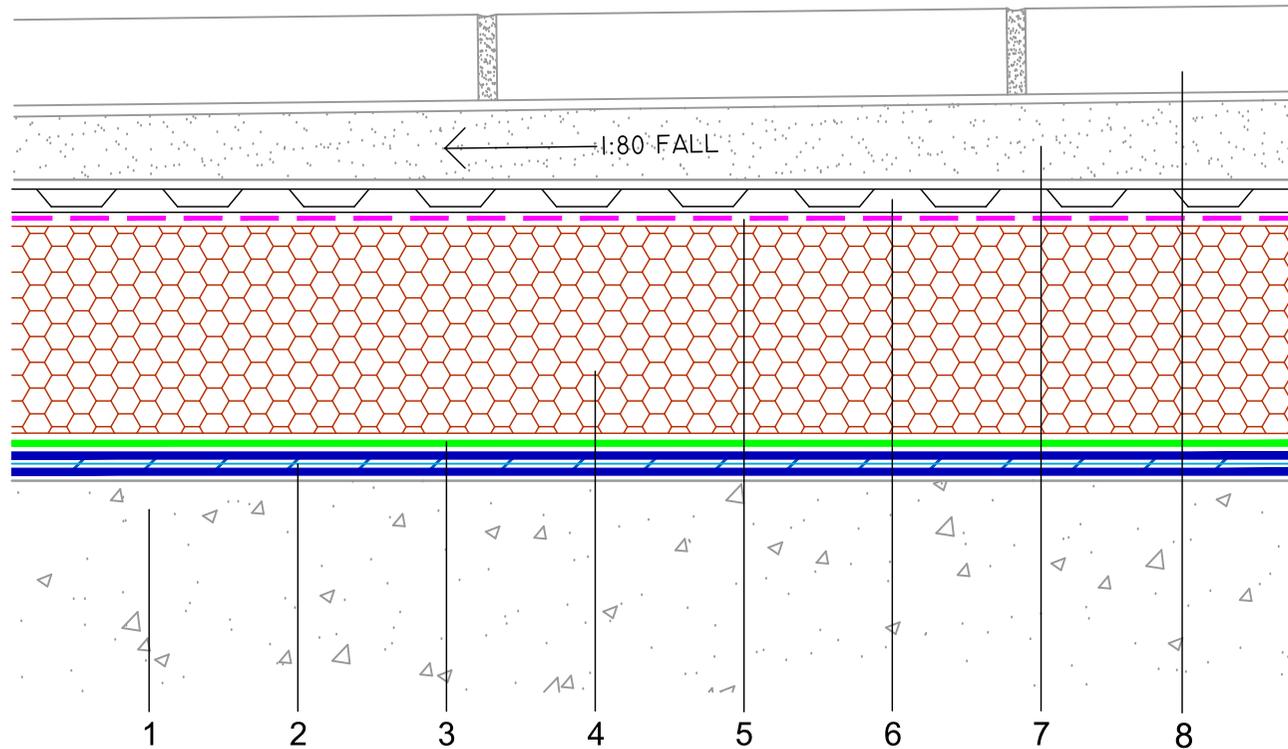
For buildings in sheltered regions or less than 10 storeys. A minimum load of 80Kg/m² to resist wind uplift is required.

This can be achieved with 50mm depth of 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.

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



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL INSULATED PODIUM DECK

| | |
|---------------------|------------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.1B(B) |

SECTION KEY:

| | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. IKO PLASDRAIN DRAINAGE LAYER |
| 3. PERMAGUARD-F PROTECTION LAYER | 7. SAND/CEMENT OR GRANULAR SUB-BASE |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD. | 8. BLOCK PAVING/CONCRETE SLABS |

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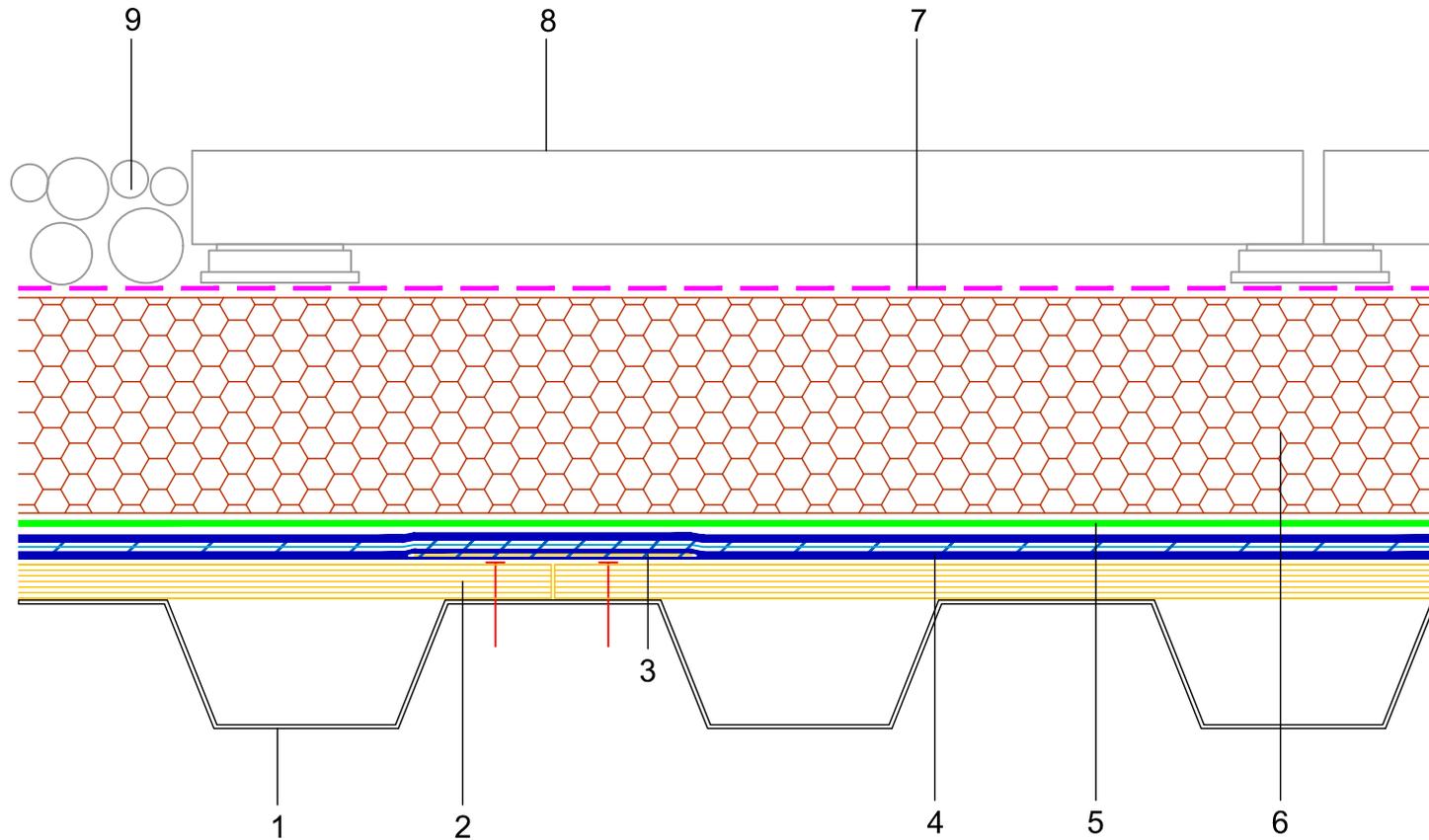
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: GMtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL INVERTED ROOF
 ASSEMBLY METAL DECK

| | |
|---------------------|---------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.1C |

SECTION KEY:

- | | |
|--|--|
| 1. STRUCTURAL METAL DECK | 5. PERMAGUARD-F PROTECTION LAYER |
| 2. MINIMUM 18MM EXTERIOR GRADE- PLYWOOD, OSB TYPE 3 OR EXTERIOR CEMENT PARTICLE BOARD MECHANICALLY FIXED TO DECK | 6. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD |
| 3. PERMAFLASH-DI50 BONDED IN PERMATEC ECOWRAP | 7. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 4. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| | 9. MINIMUM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |

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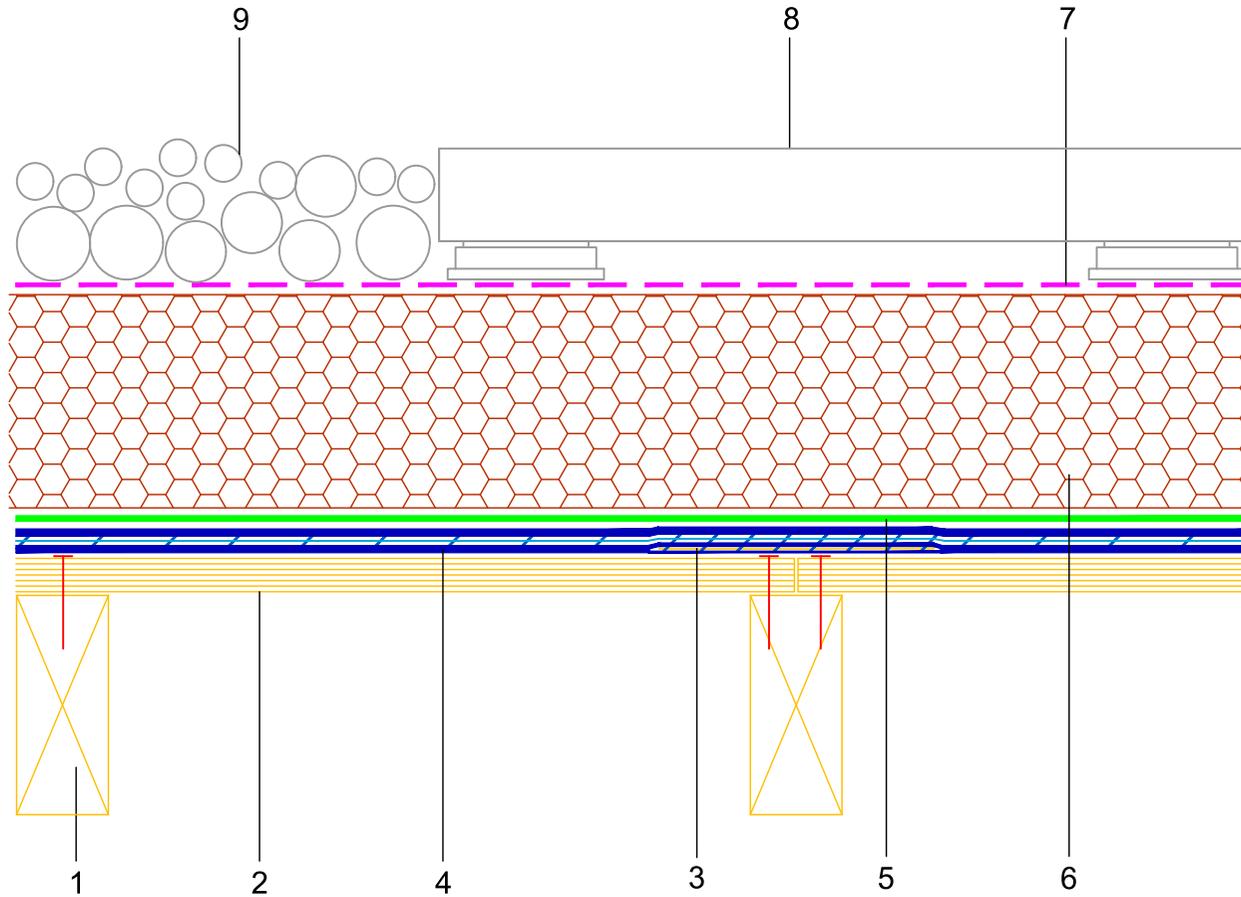
Wind Uplift

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 (98Kg/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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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: GMtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF
 ASSEMBLY PLYWOOD DECK

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.1D

- SECTION KEY: 1. TIMBER JOIST
 2. MINIMUM 18MM EXTERIOR GRADE- PLYWOOD, OSB TYPE 3 BOARD MECHANICALLY FIXED TO TIMBER JOISTS.
 3. PERMAFLASH-DI50 BONDED IN PERMATEC LI
 4. TWO COATS OF PERMATEC LI 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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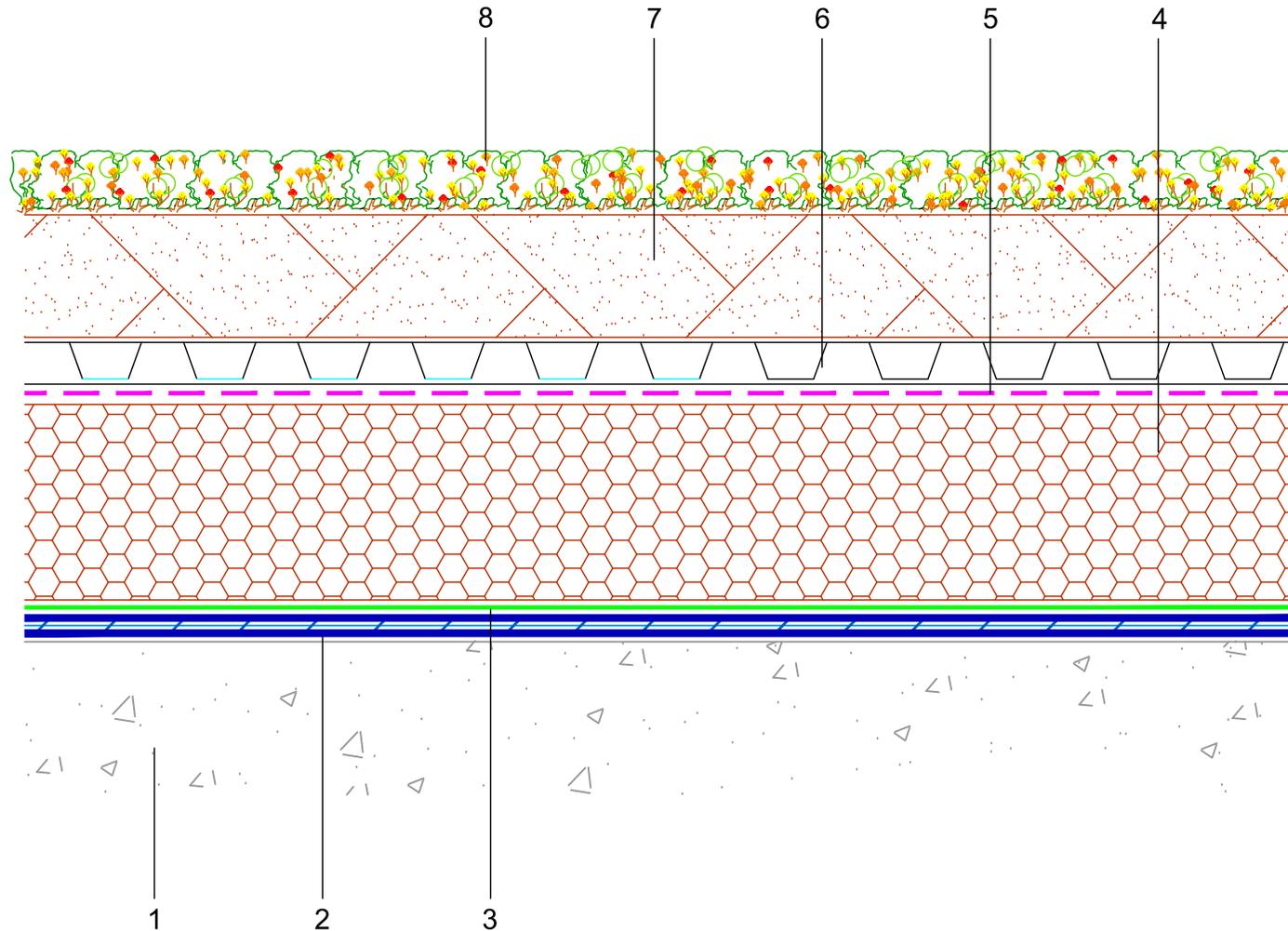
Wind Uplift

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 (98Kg/M²).

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL EXTENSIVE
 GREEN ROOF

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.1E

SECTION KEY:

- | | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI ANTI-ROOT INCORPORATING IKO PERMAFLASH-R REINFORCEMENT | 6. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER |
| 3. IKO PERMAGUARD - F PROTECTION LAYER | 7. IKO EXTENSIVE INVERTED GROWING MEDIUM |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 8. IKO SEDUM BLANKET/ PLUG PLANT |

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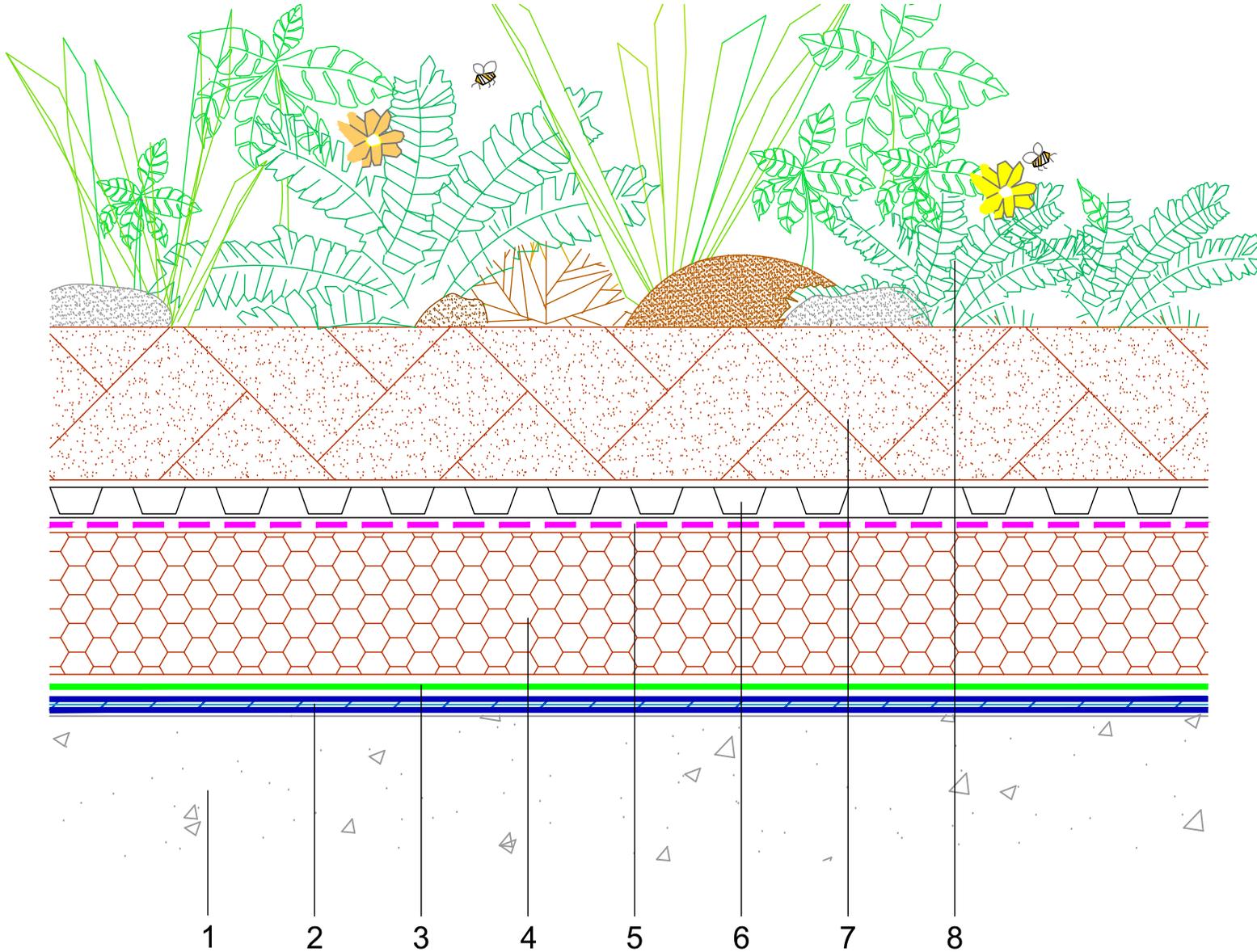
Wind Uplift

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 (98Kg/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
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE, DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: GMtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INTENSIVE
 GREEN ROOF

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.1F(A)

SECTION KEY:

- | | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI ANTI-ROOT INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER |
| 3. PERMAGUARD-F PROTECTION LAYER | 7. IKO INTENSIVE GROWING MEDIUM |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD. | 8. VEGETATION AS SPECIFIED |

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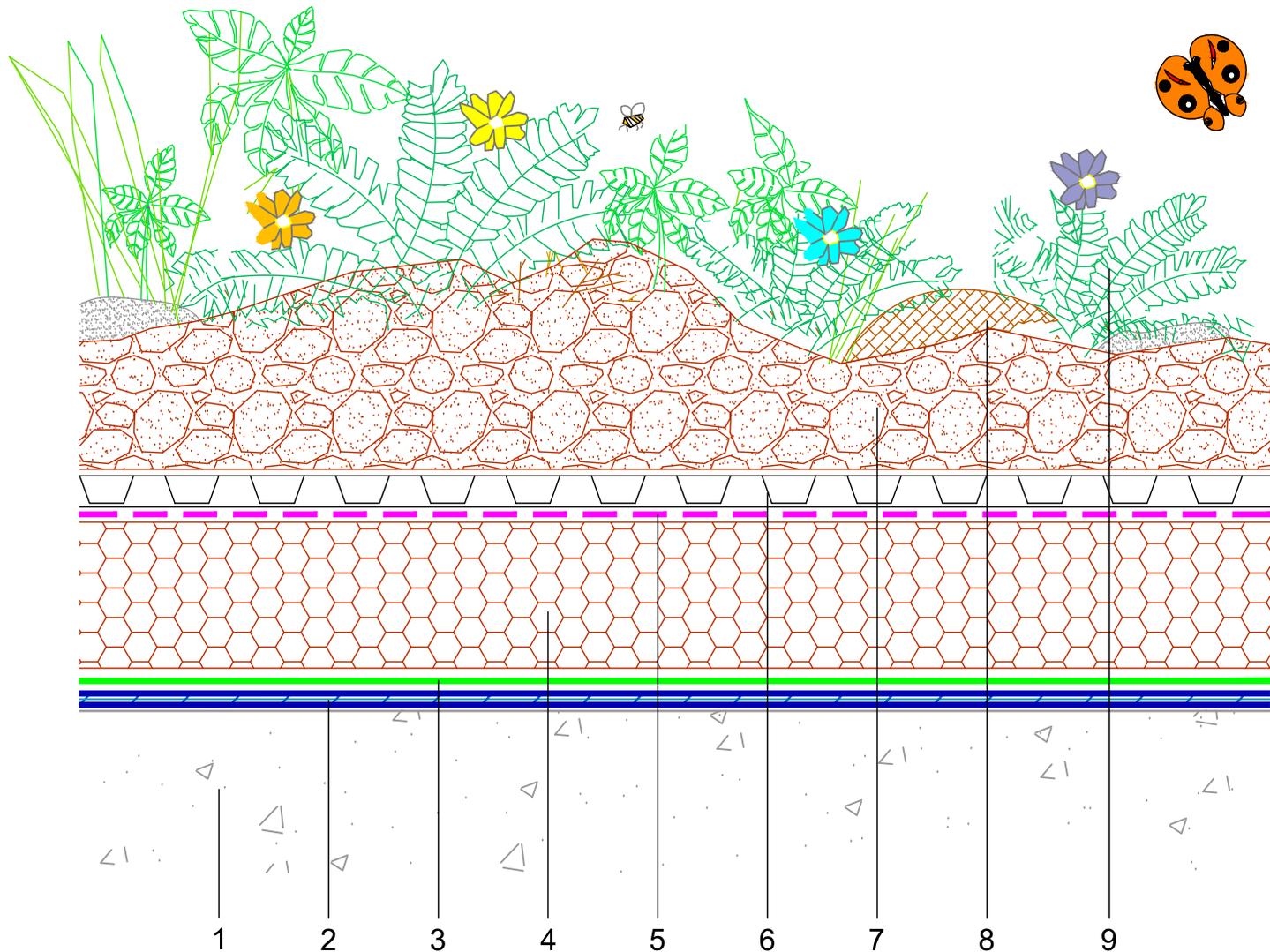
Wind Uplift

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: GMtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL BIODIVERSE GREEN ROOF

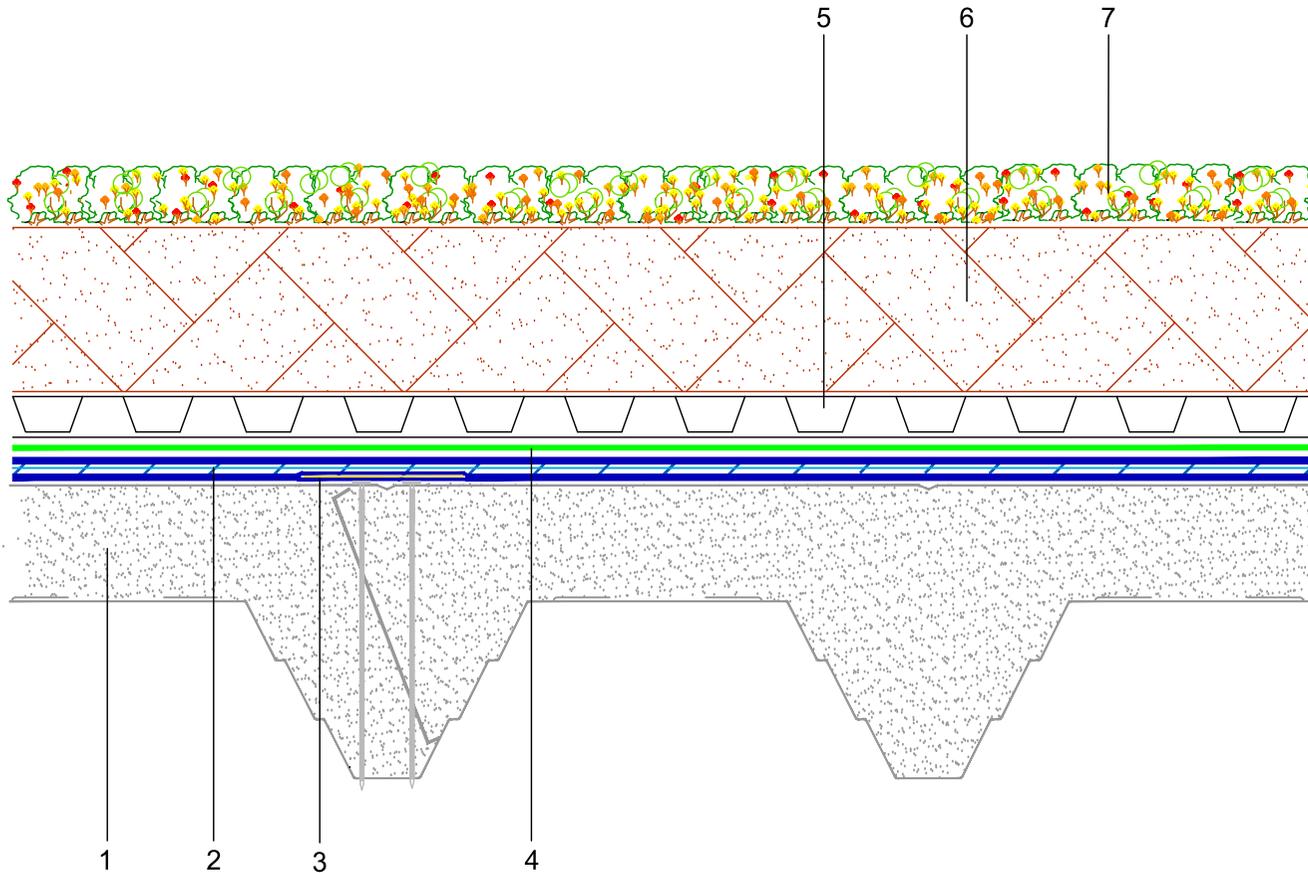
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| Date: March 2024 | Scale: NTS |
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| Drawn by: ME | Revision: | Sheet No: PT.1F(B) |
|-----------------|-----------|-----------------------|

- SECTION KEY:
- | | |
|---|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO BIODIVERSE GROWING MEDIUM, MOUNDED BETWEEN MINIMUM 100MM UP TO ABOUT 200MM. |
| 2. 2 COATS OF PERMATEC LI ANTIROOT INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. OPTIONAL LOGS AND INSECT HOUSES |
| 3. PERMAGUARD - F PROTECTION LAYER | 9. VEGETATION TO ENHANCE THE PRE-DEVELOPMENT HABITAT & ATTRACT SPECIFIC WILDLIFE |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD. | |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |
| 6. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER | |

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Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: GMtechnical@iko.com

STANDARD DETAIL

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

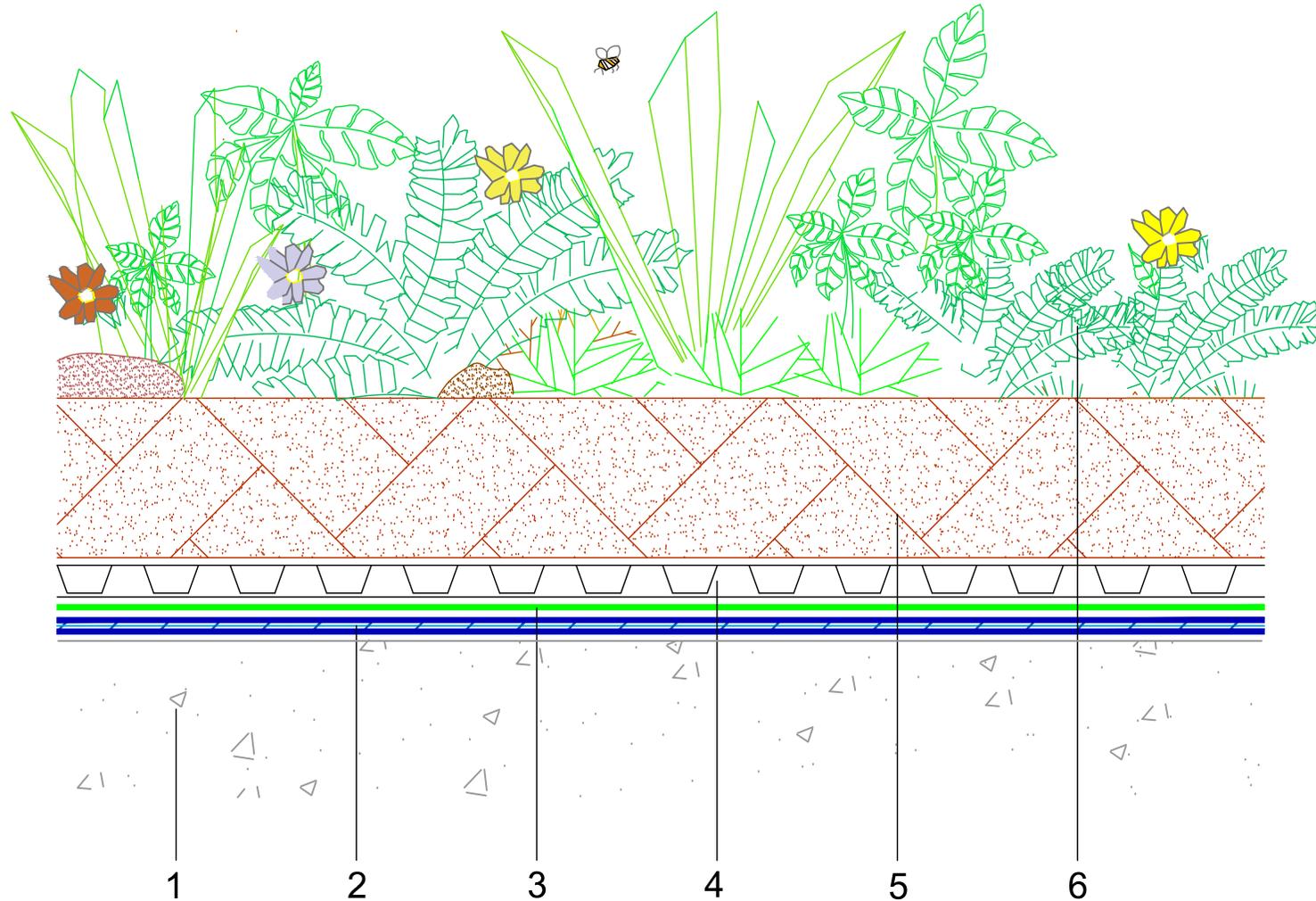
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|---------------------|---------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.1G |

SECTION KEY:

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

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IKO permatec
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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmttechnical@iko.com

STANDARD DETAIL

Drawing Title:
TYPICAL UN-INSULATED
INTENSIVE GREEN ROOF

| | |
|---------------------|---------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.1H |

SECTION KEY:

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

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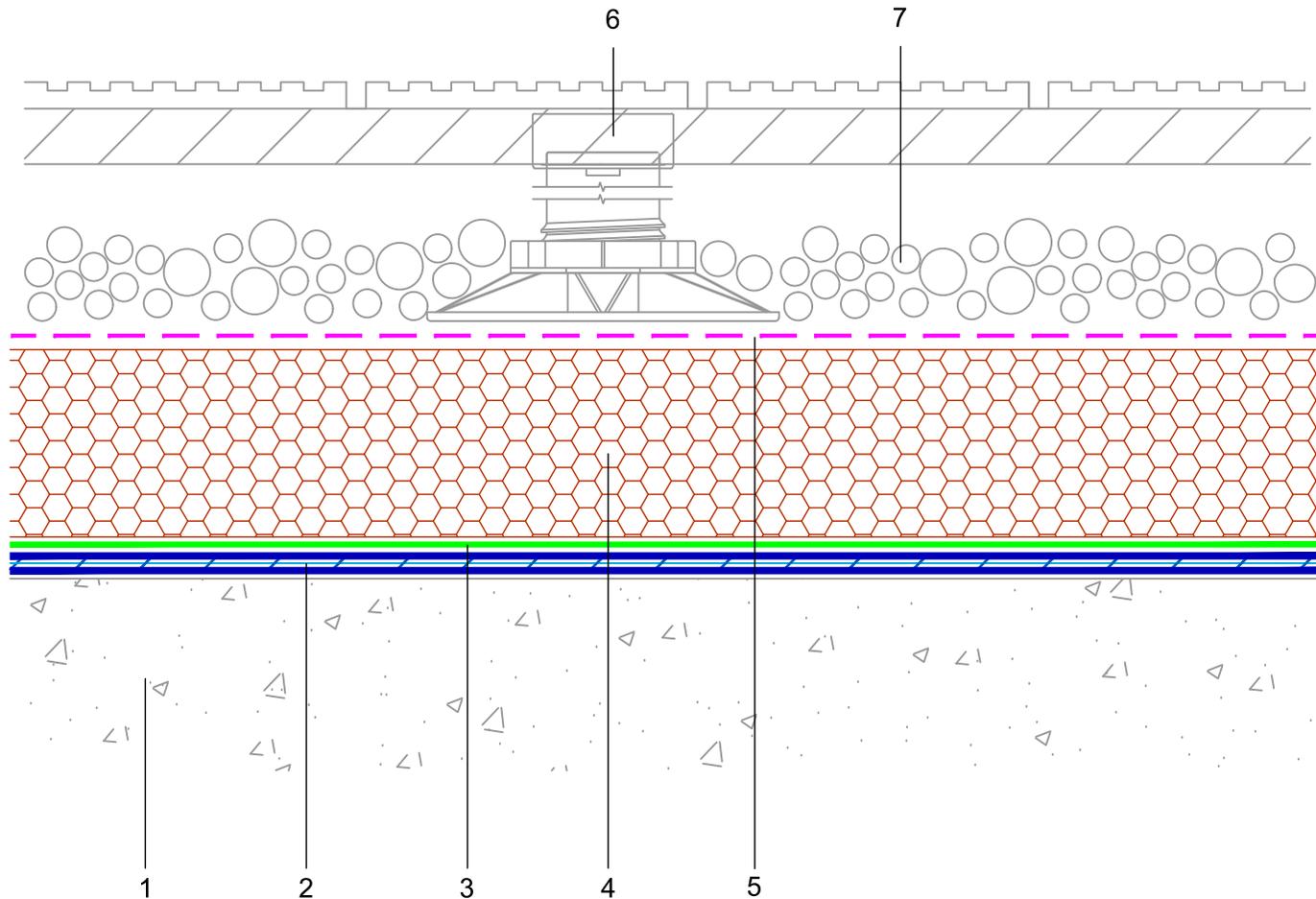
Wind Uplift

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 (98Kg/M²).

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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INVERTED ROOF WITH
NON-COMBUSTIBLE DECKING

Date:

March 2024

Scale:

NTS

Drawn by:

ME

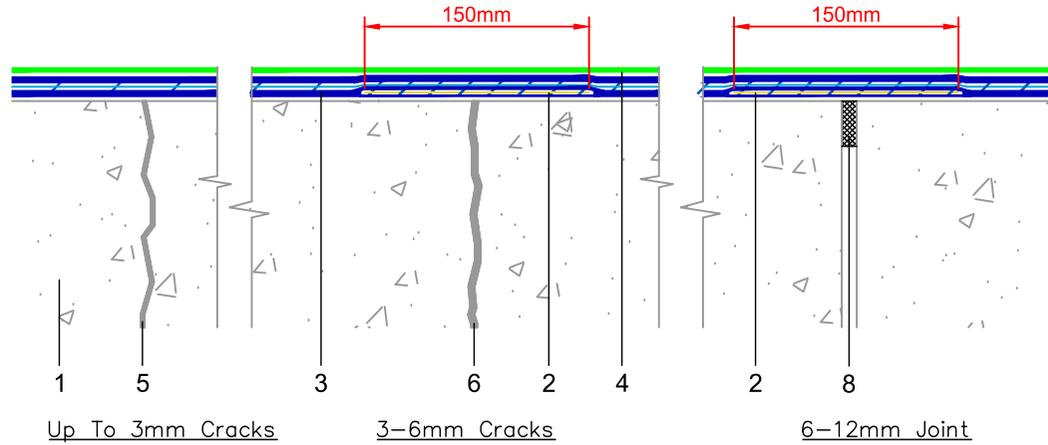
Revision:

Sheet No:

PT.1L

SECTION KEY:

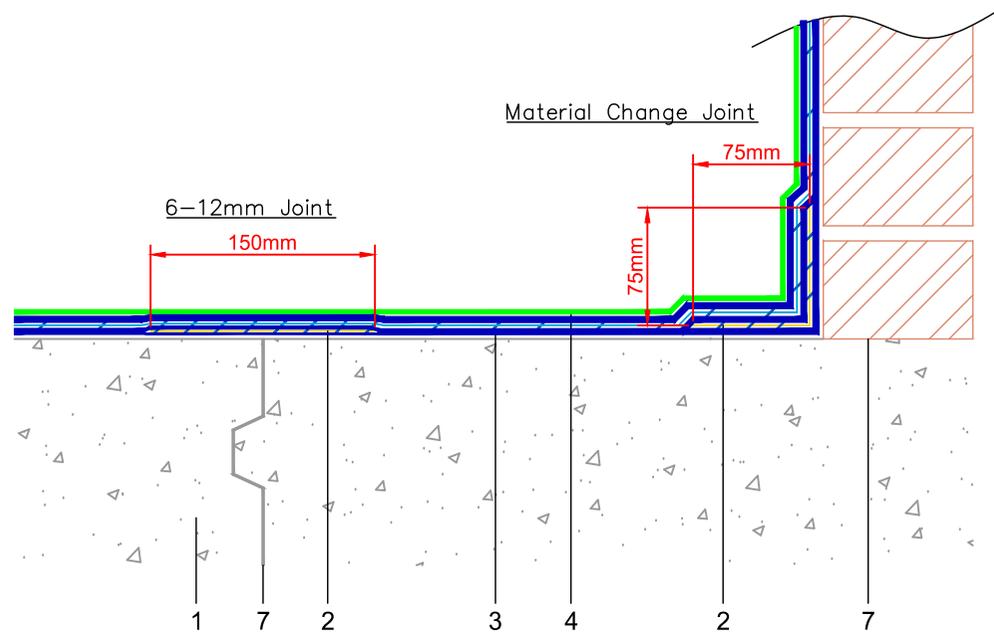
- | | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. COMPOSITE DECKING SYSTEM WITH ADJUSTABLE SUPPORTS |
| 3. PERMAGUARD-F PROTECTION LAYER | 7. MINIMUM 50MM LAYER OF 20 - 40MM ROUNDED WASHED AGGREGATE |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | |



Up To 3mm Cracks

3-6mm Cracks

6-12mm Joint



Material Change Joint

6-12mm Joint

150mm

75mm

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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gntech@iko.com

STANDARD DETAIL

Drawing Title:
 CRACK AND JOINT
 REINFORCEMENT DETAILS

| | |
|---------------------|---------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.2A |

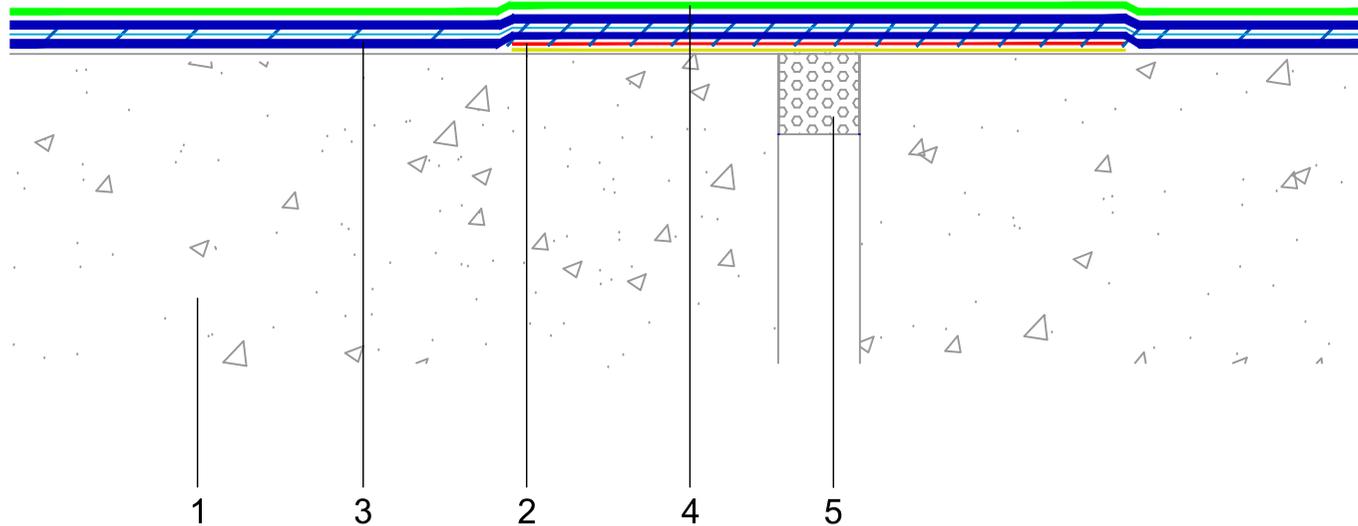
SECTION KEY:

| | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. STRUCTURAL/SHRINKAGE CRACKS UP TO 3MM |
| 2. PERMAFLASH-D150 BONDED IN PERMATEC COMPOUND | 6. STRUCTURAL AND SHRINKAGE CRACKS 3-6MM |
| 3. TWO LAYERS OF PERMATEC LI COMPOUND INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. CONSTRUCTION JOINTS OR NON-MONOLITHIC CHANGES IN PLANE AND MATERIALS |
| 4. PERMAGUARD-F PROTECTION LAYER | 8. JOINTS 6-12MM WIDE, WITH JOINT FILLER |

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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.

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



IKO permatec
Hot Melt Waterproofing System

TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL EXPANSION JOINT
12-50MM GAP

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

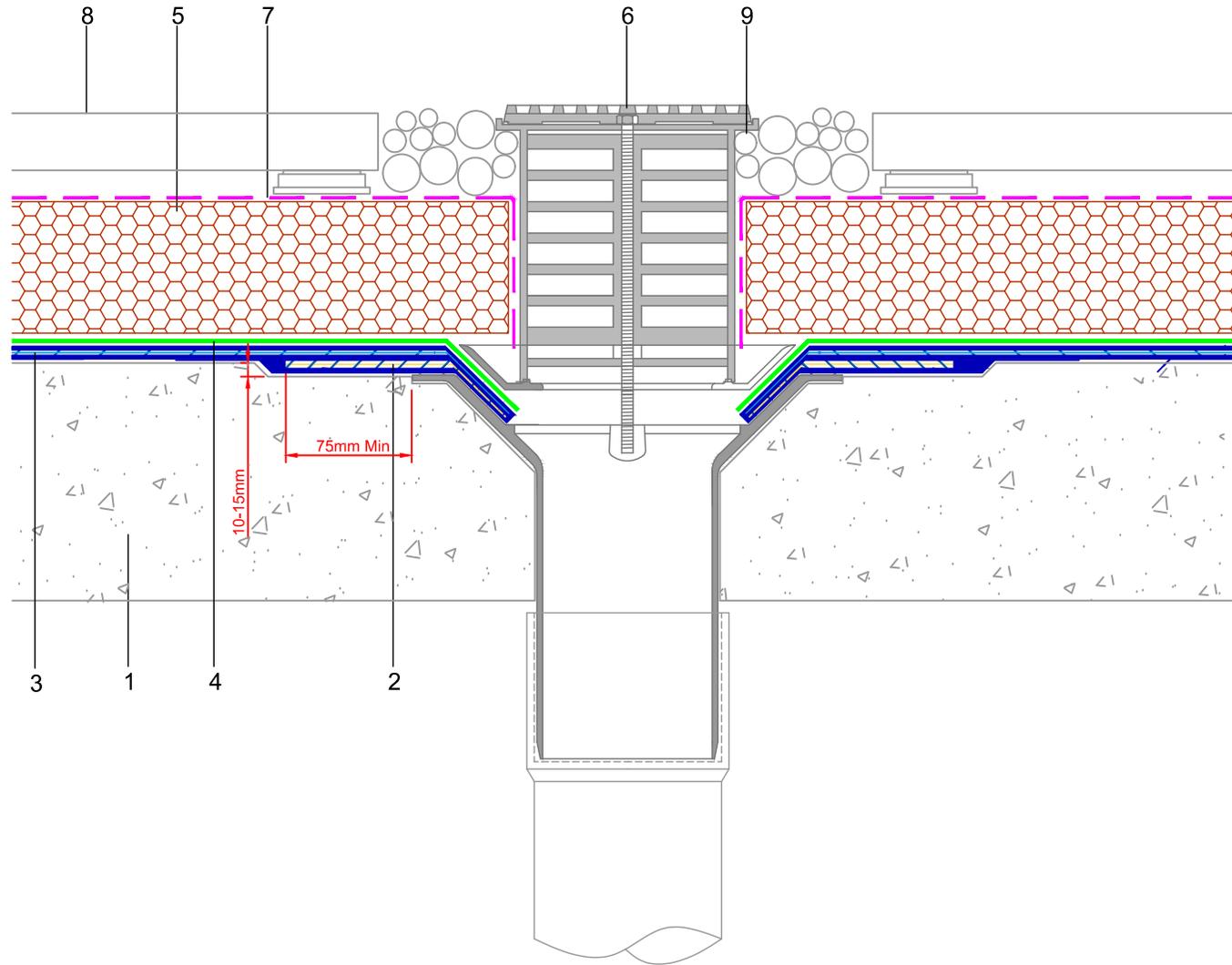
PT.2B

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 LI COMPOUND INCORPORATING PERMAFLASH-R REINFORCEMENT
4. PERMAGUARD-F PROTECTION LAYER

5. CLOSED CELL FOAM

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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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL RAINWATER OUTLET
 INVERTED ROOF

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

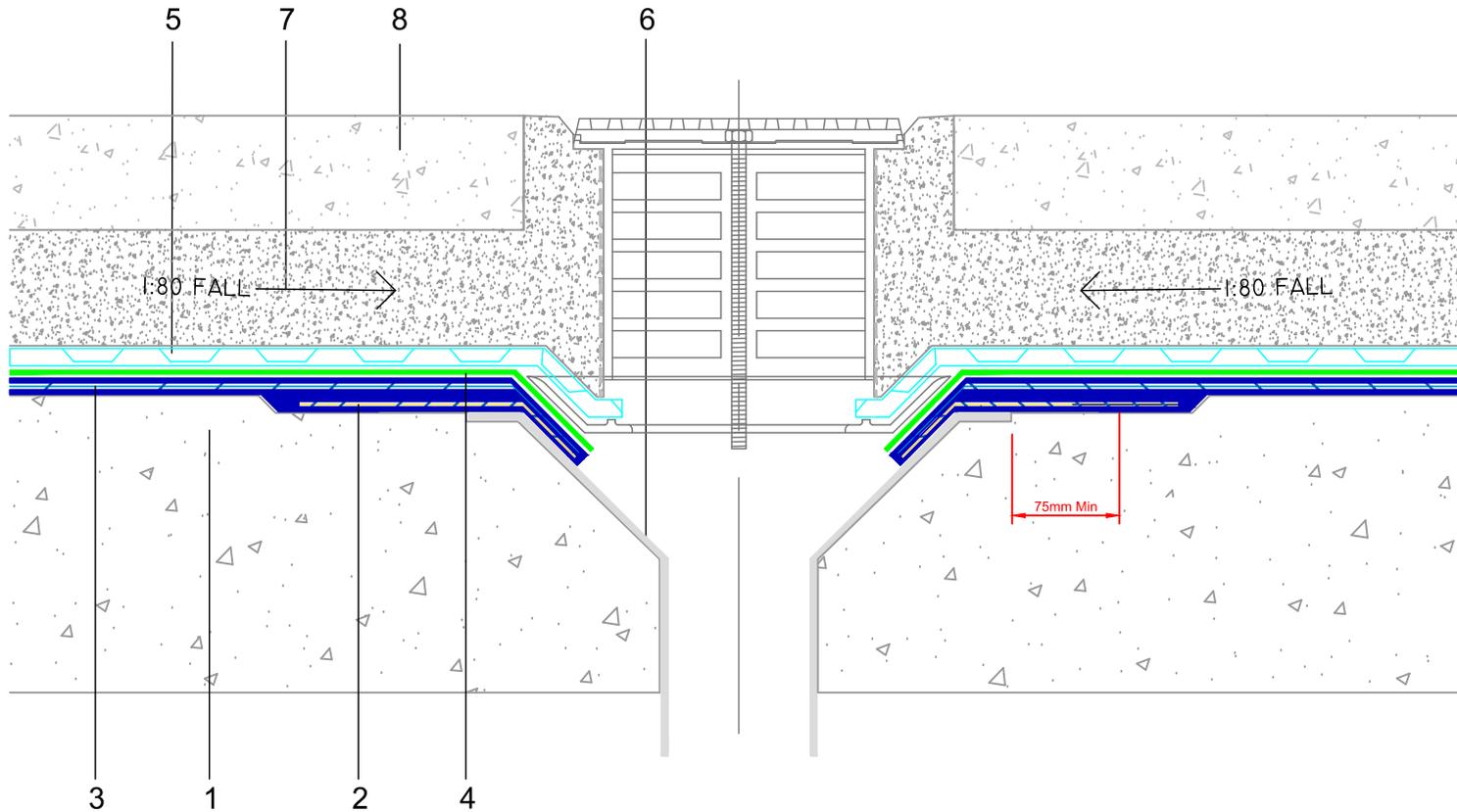
PT.3A

SECTION KEY:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONCRETE SLAB PRIMED WITH PERMATEC PRIMER 2. PERMAFLASH-D500 BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | <ol style="list-style-type: none"> 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 |
|---|---|

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL RAINWATER OUTLET
 UN-INSULATED PODIUM DECK

| | |
|---------------------|---------------------------------|
| Date: March 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.3B |

SECTION KEY:

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

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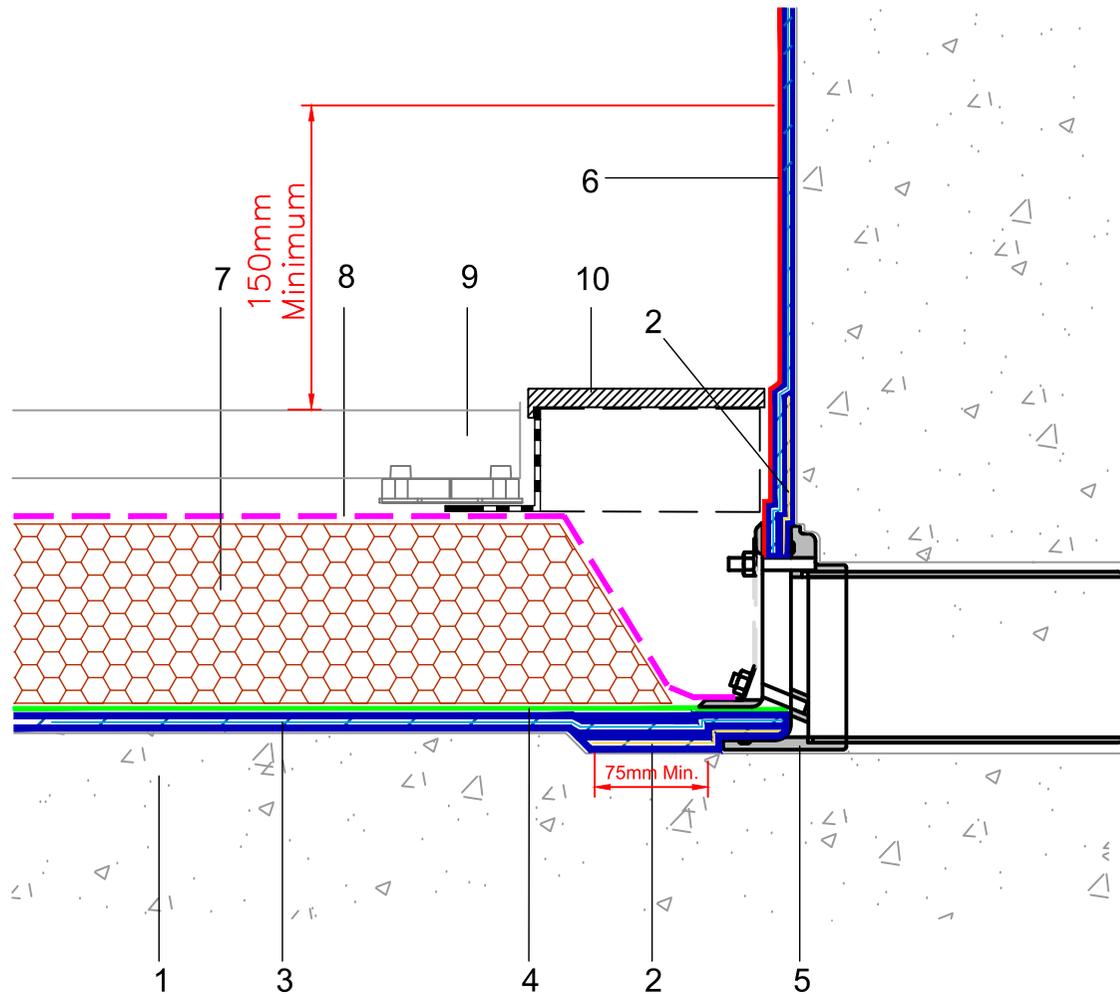
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL RAINWATER OUTLET
 PARAPET - BALCONY

| | |
|---------------------|------------------------------------|
| Date: MARCH 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.3C(A) |

| | | | |
|--------------|--|---|--|
| SECTION KEY: | 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO TWO WAY PARAPET OUTLET WITH THREADED ADAPTOR | 9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| | 2. 150MM WIDE PERMAFLASH-D150 BEDDED IN PERMATEC LI | 6. PERMAGUARD-M PROTECTION LAYER | 10. INSPECTION CHAMBER-THREE SIDED PERFORATED BOX WITH FLANGE WITH REMOVABLE LID |
| | 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION | |
| | 4. PERMAGUARD-F PROTECTION LAYER | 8. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |

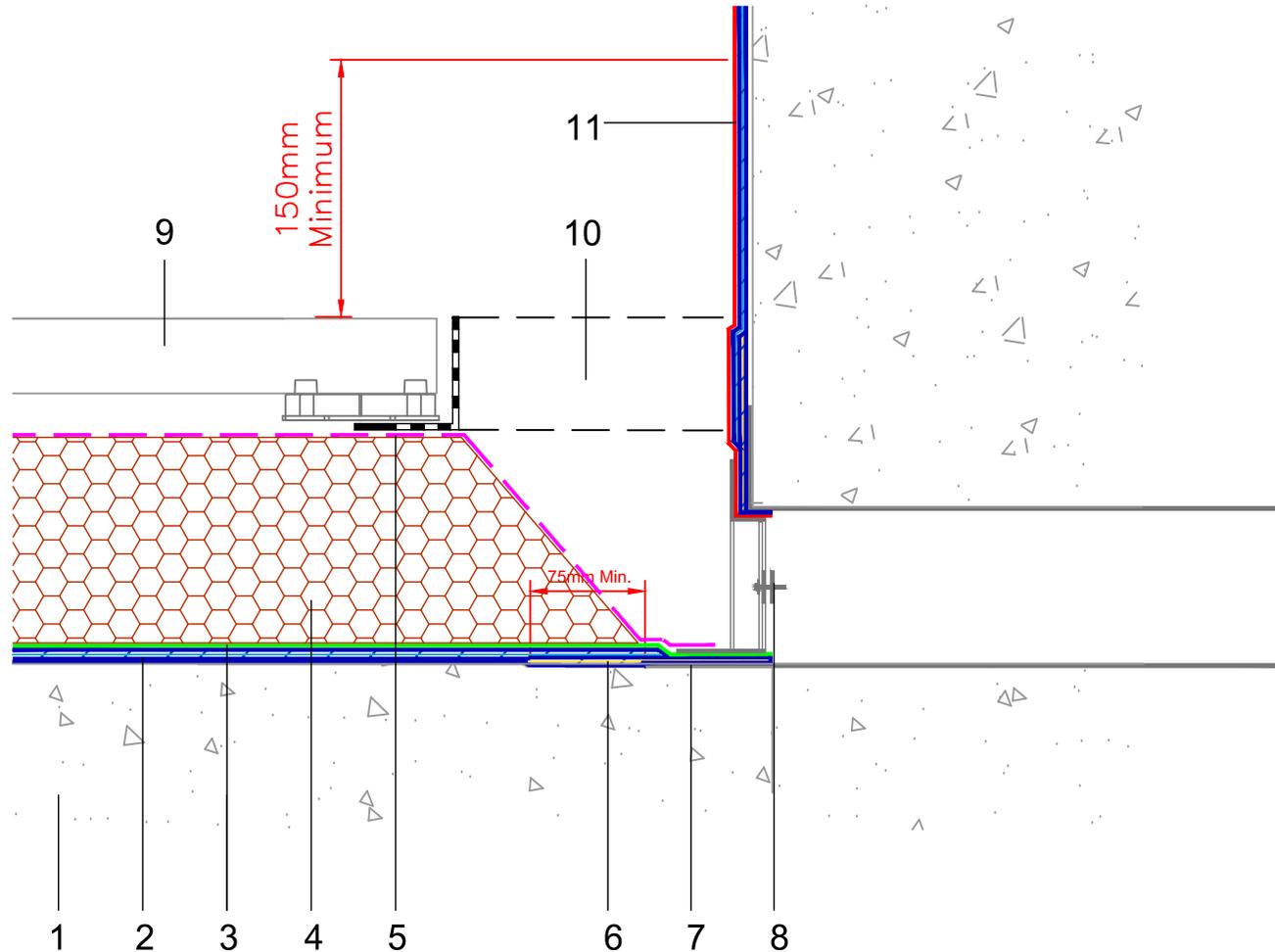
Wind Uplift

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This can be achieved with 50mm depth of 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL PARAPET
 RAINWATER OUTLET FLUSH
 WITH DECK

| | |
|---------------------|---------------|
| Date: March 2024 | Scale: NTS |
|---------------------|---------------|

| | | |
|-----------------|-----------|-----------------------|
| Drawn by: ME | Revision: | Sheet No: PT.3C(B) |
|-----------------|-----------|-----------------------|

SECTION KEY:

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

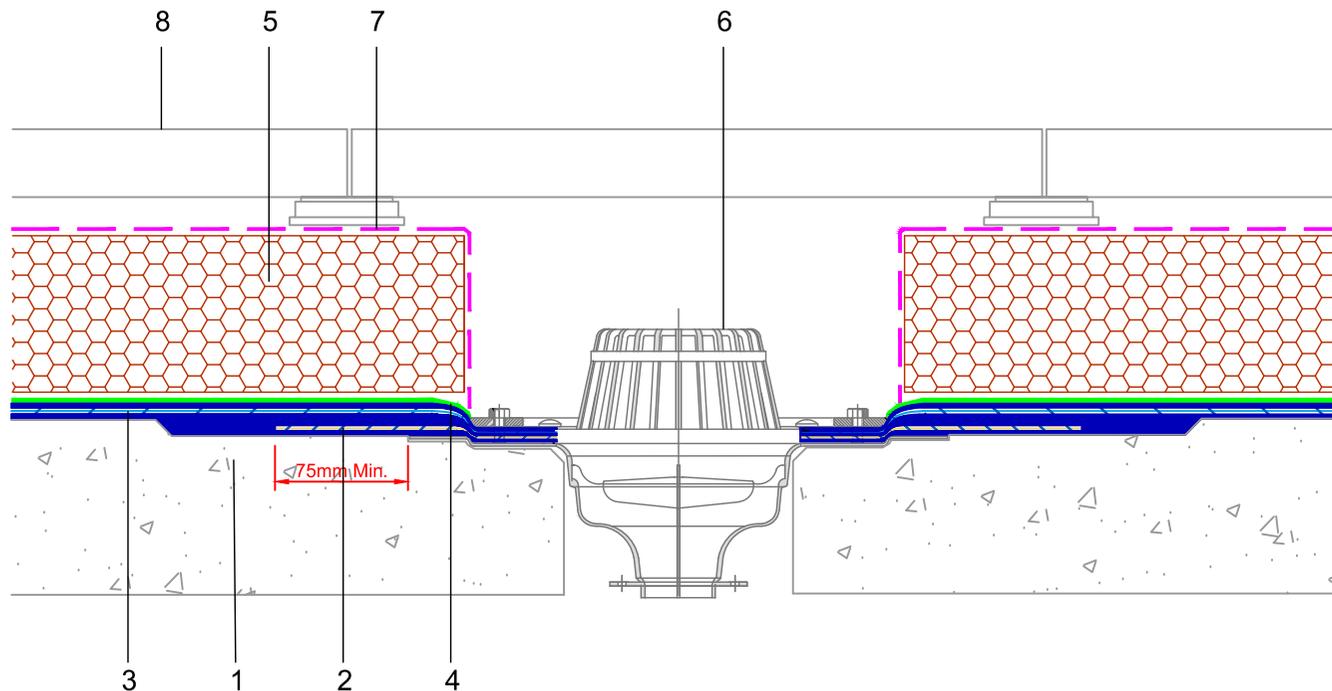
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Wind Uplift

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This can be achieved with 50mm depth of 20 - 40mm washed rounded ballast or 40mm thick concrete slabs (98Kg/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.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: technical.uk@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL FULL-FLOW
 SYPHONIC OUTLET

Date:

July 2024

Scale:

NTS

Drawn by:
 ME

Revision:

Sheet No:
 PT.3D

SECTION KEY:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. 500MM WIDE PERMAFLASH-D500 BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER | <ol style="list-style-type: none"> 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 |
|---|--|

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



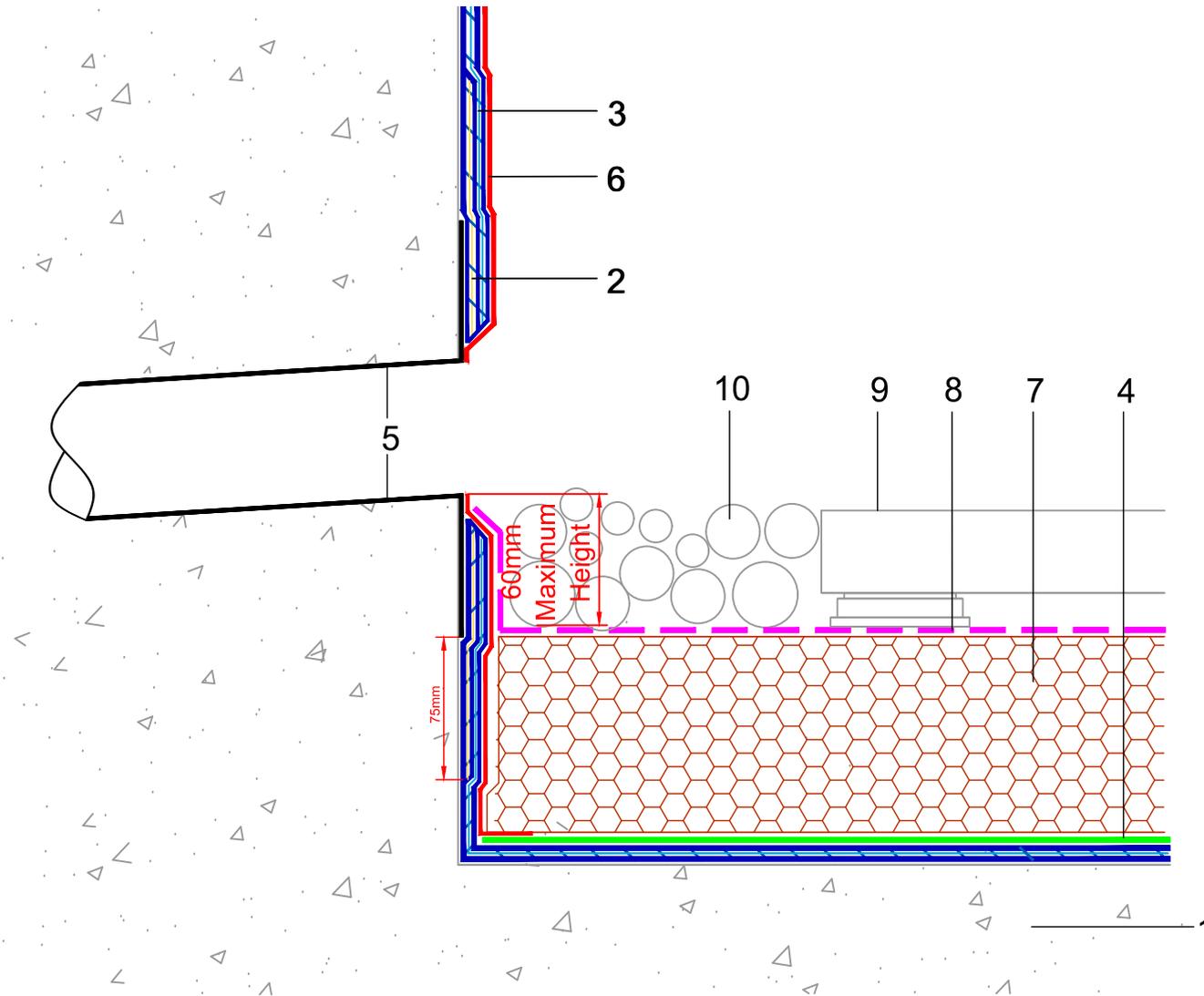
TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL RAINWATER
 OVERFLOW CHUTE
 THROUGH UP-STAND

| | |
|--------------------|---------------|
| Date: July 2024 | Scale: NTS |
|--------------------|---------------|

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



- | | | |
|--------------|--|--|
| SECTION KEY: | 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD |
| | 2. PERMAFLASH-DI50 BEDDED IN PERMATEC ECOWRAP | 8. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| | 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| | 4. PERMAGUARD-F PROTECTION LAYER | 10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| | 5. OVERFLOW CHUTE WITH MINIMUM 75MM FLANGE | |
| | 6. PERMAGUARD-M TO PROTECTION LAYER | |

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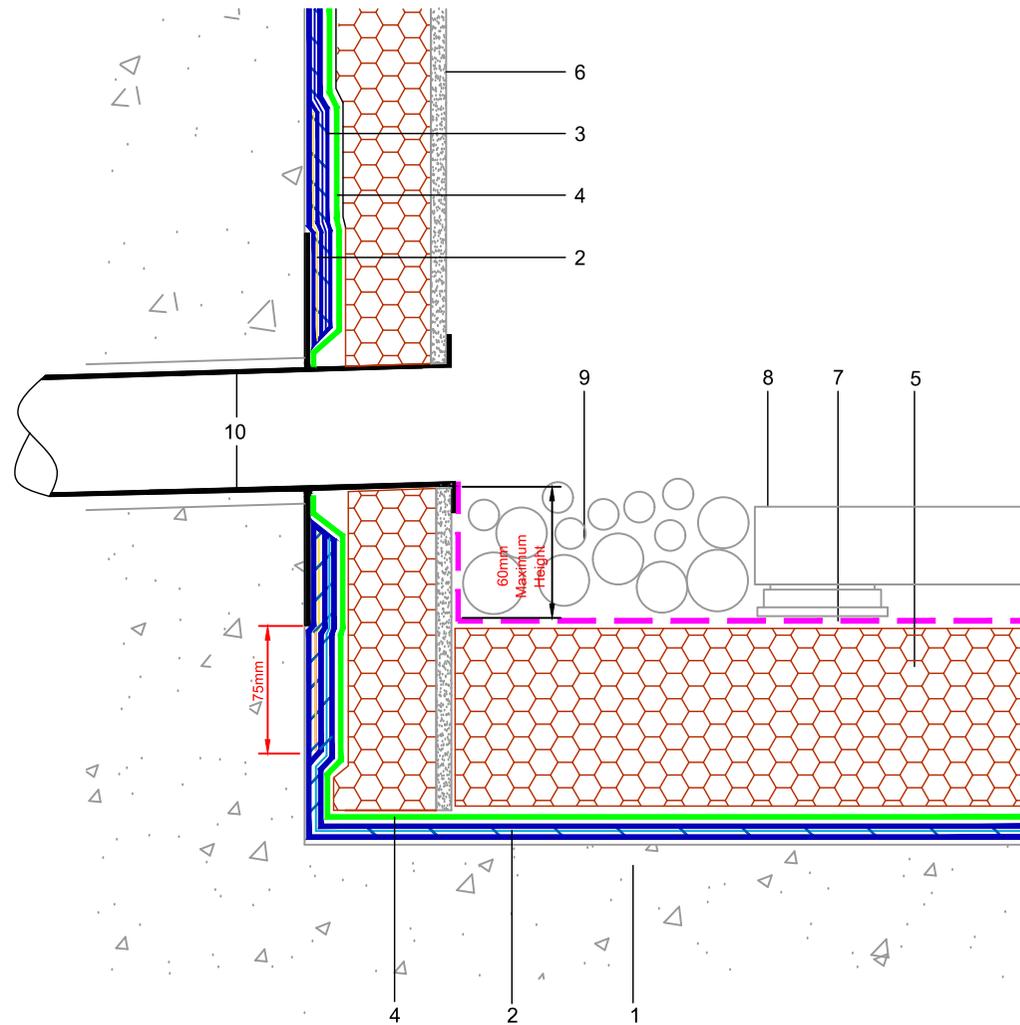
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL INSULATED
 RAINWATER OVERFLOW CHUTE
 THROUGH UP-STAND

Date: March 2024
 Scale: NTS

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

- SECTION KEY:
- | | |
|---|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. PERMAFLASH-DI50 DETAILING SHEET BEDDED IN PERMATEC ECOWRAP | 8. MINIMUM 40MM PAVING SLABS ON PROPRIETARY SUPPORTS |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 4. PERMAGUARD-F PROTECTION LAYER | 10. 10.OVERFLOW CHUTE WITH MINIMUM 75MM FLANGE |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | |
| 6. IKO ETHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD WITH CEMENT FACING | |

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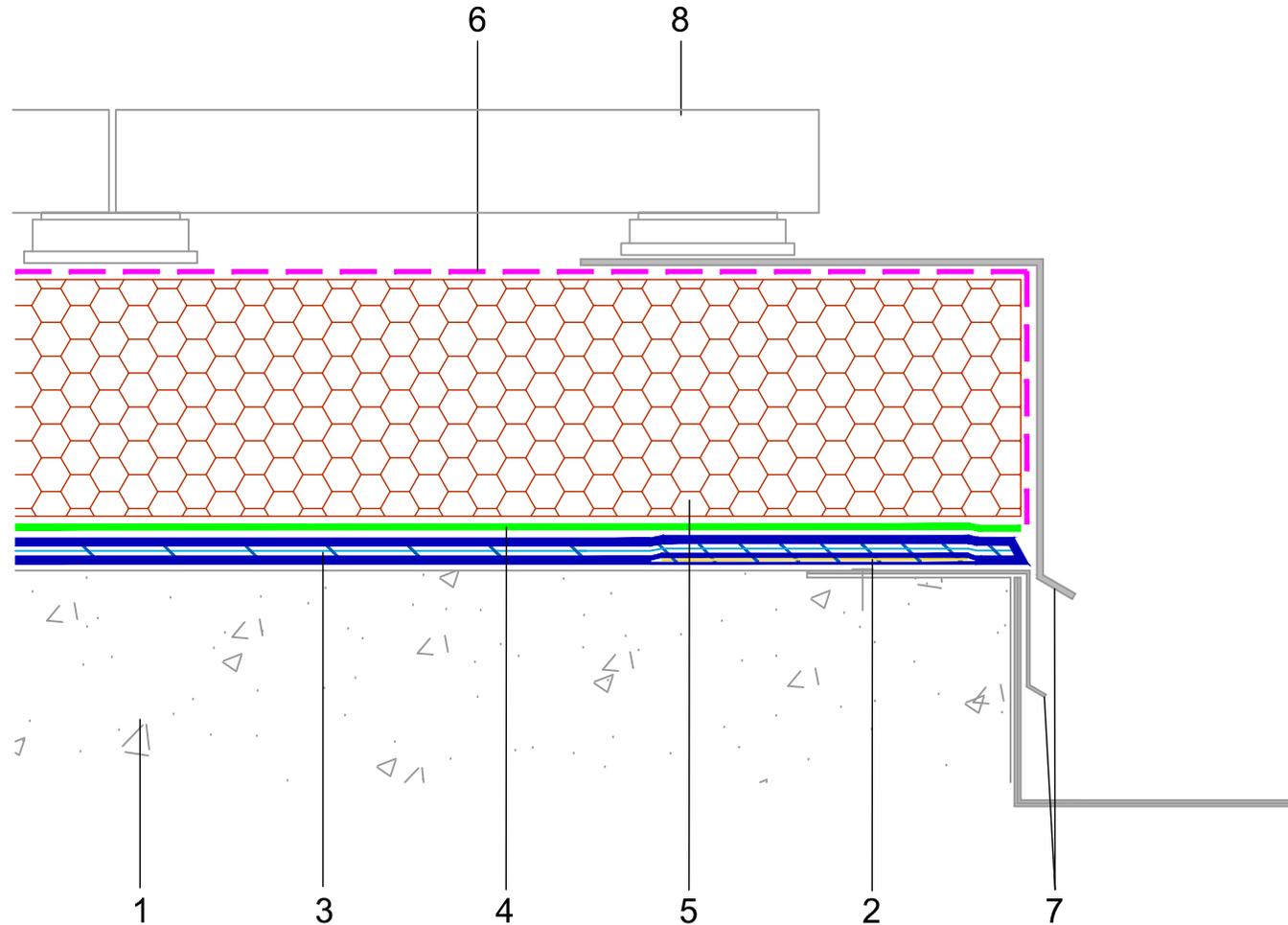
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL DRIP TO GUTTER

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.3G

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. PERMAFLASH-DI50 BONDED IN PERMATEC LI | 7. METAL COVER FLASHING |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 4. PERMAGUARD-F PROTECTION LAYER | |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | |

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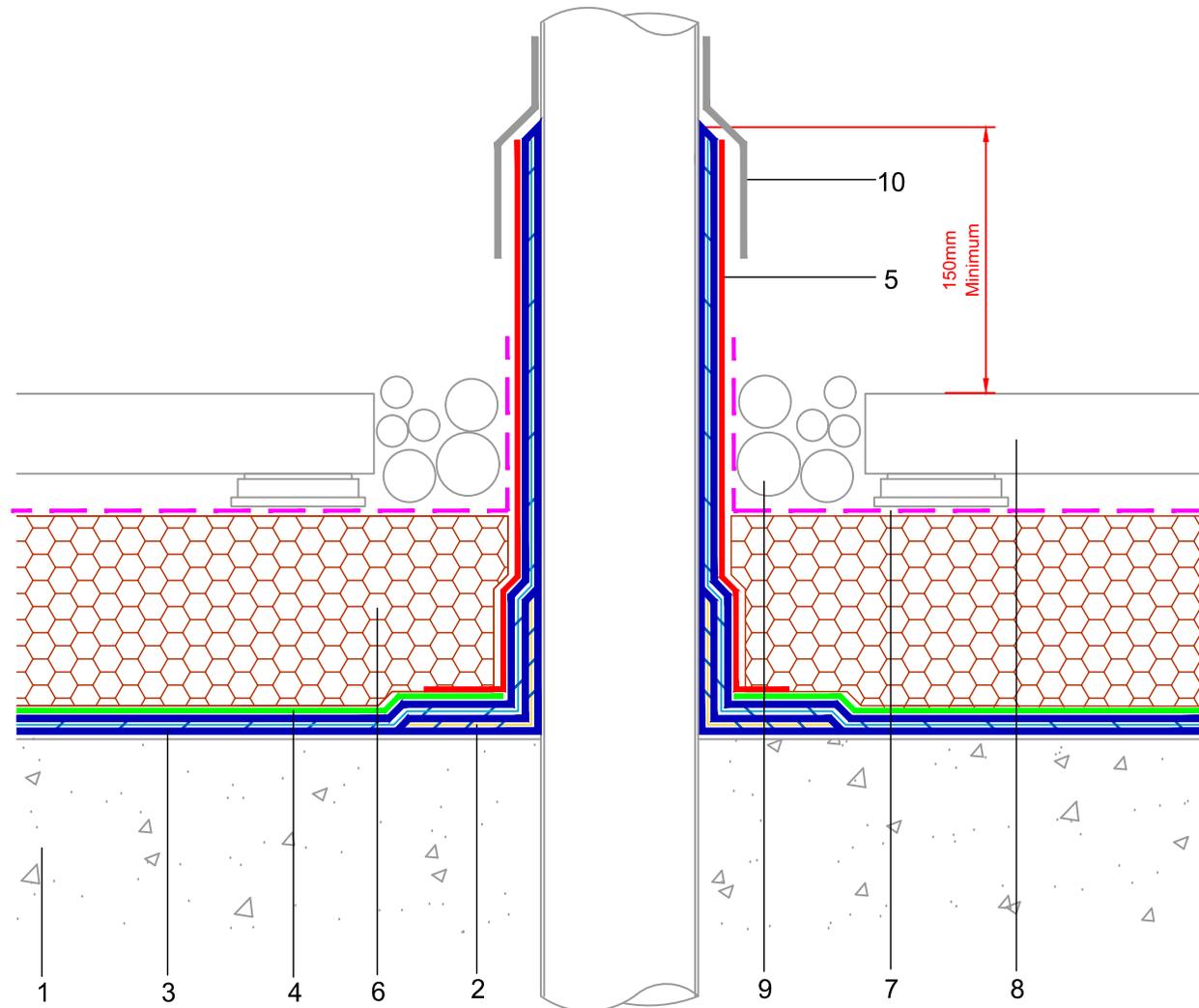
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL COLD METAL PIPE
 PENETRATION

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

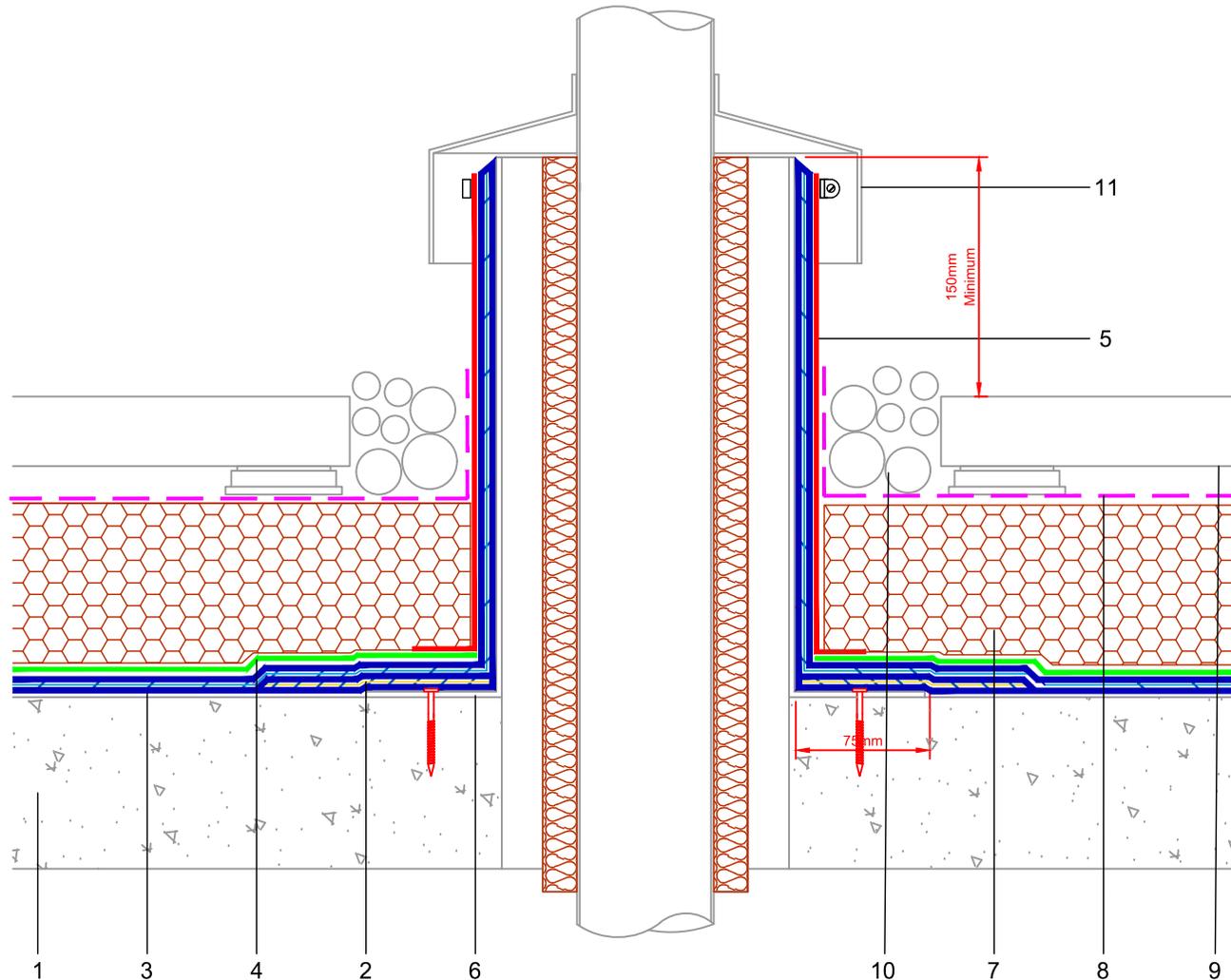
Sheet No:

PT.4A

SECTION KEY:

- | | | |
|--|---|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. PERMAGUARD-M PROTECTION LAYER | SUPPORTS |
| 2. PERMAFLASH-DI50 BONDED IN PERMATEC LI | 6. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION | 9. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 10. COLLAR FLASHING |
| 4. PERMAGUARD-F PROTECTION LAYER | 8. MINIMUM 40MM PAVING SLABS ON PROPRIETARY | |

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 2010 AS AMENDED (ENGLAND). THIS IS ESPECIALLY IMPORTANT IF THE DECK IS TIMBER AND THEREFORE COMBUSTIBLE. FOR SCOTLAND, N IRELAND AND WALES SEE THEIR RULES



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Wind Uplift

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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL HOT PIPE
PENETRATION

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.4B

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

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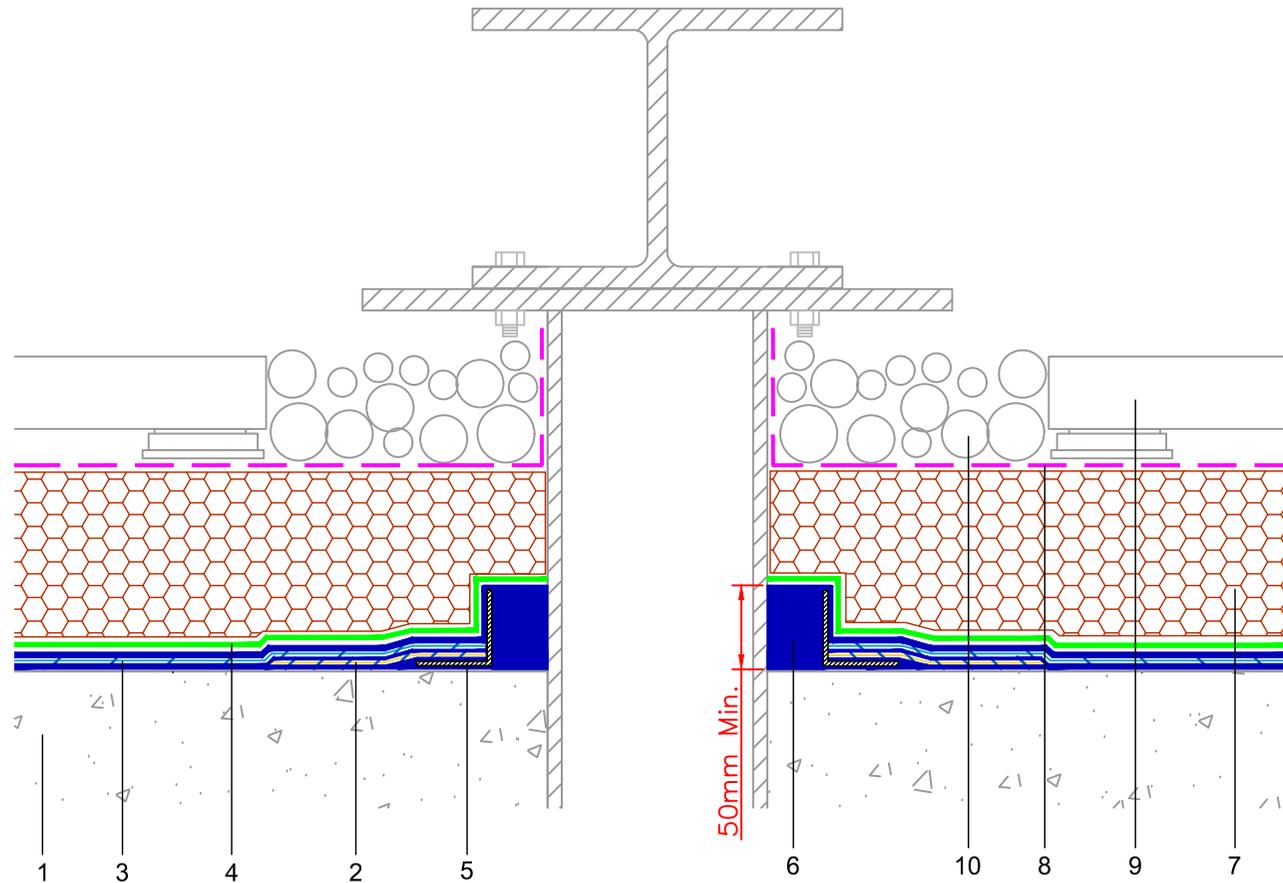
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PITCH POCKET

Date:

April 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.4C(A)

SECTION KEY:

- | | | |
|--|---|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. GALVANISED STEEL PITCH POCKET FORMER BONDED IN PERMATEC COMPOUND | 9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. PERMAFLASH-D150 DETAILING SHEET BONDED IN PERMATEC LI | 6. PERMATEC LI POURED INTO FORMER | 10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | |
| 4. PERMAGUARD-F PROTECTION LAYER | 8. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |

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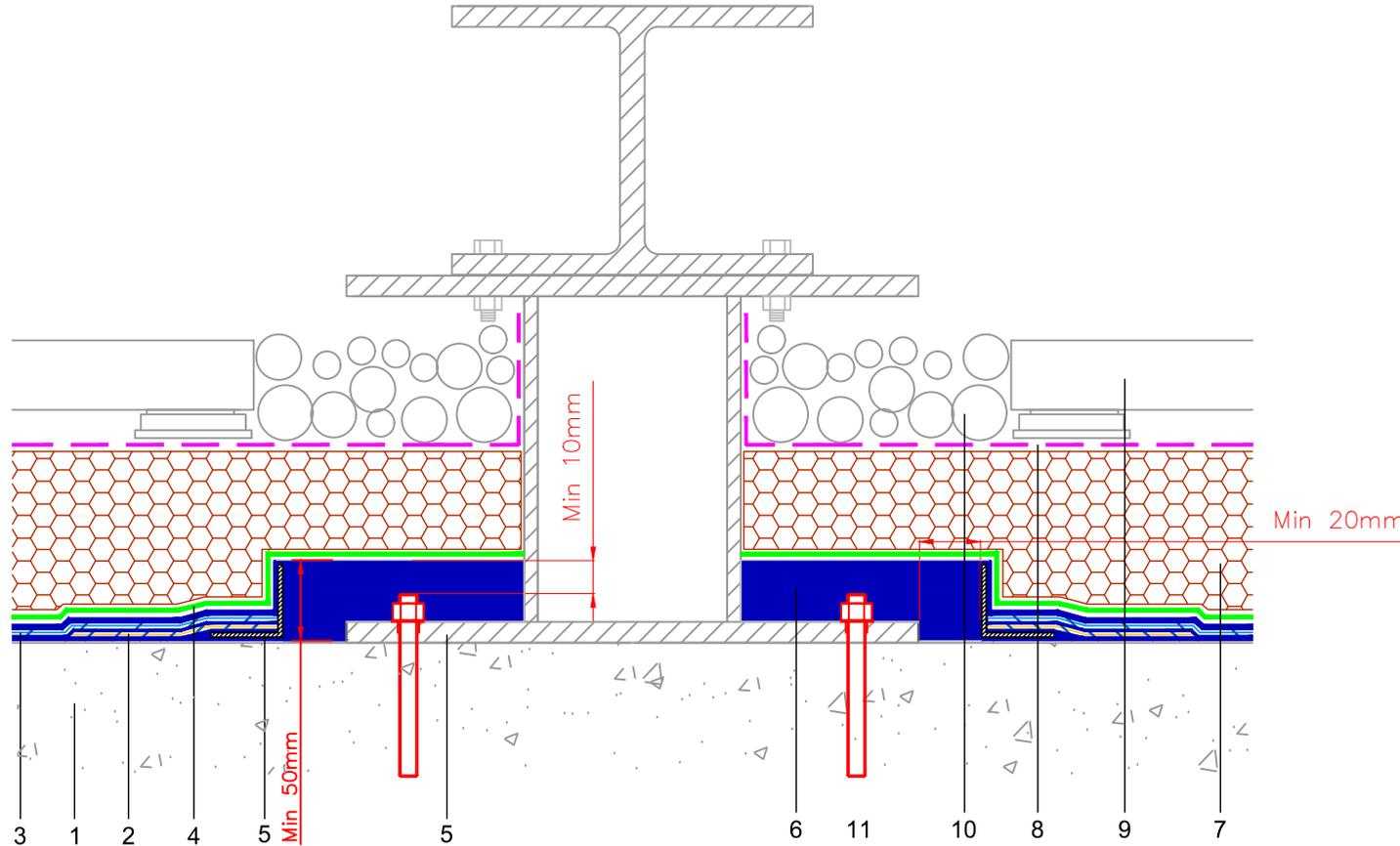
Wind Uplift

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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



IKO permatec
Hot Melt Waterproofing System

TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE, DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PITCH POCKET
(BASE PLATE)

Date:

July 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.4C(B)

SECTION KEY:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER 5. GALVANISED STEEL PITCH POCKET FORMER BONDED IN PERMATEC COMPOUND | <ol style="list-style-type: none"> 6. PERMATEC LI 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 |
|---|--|

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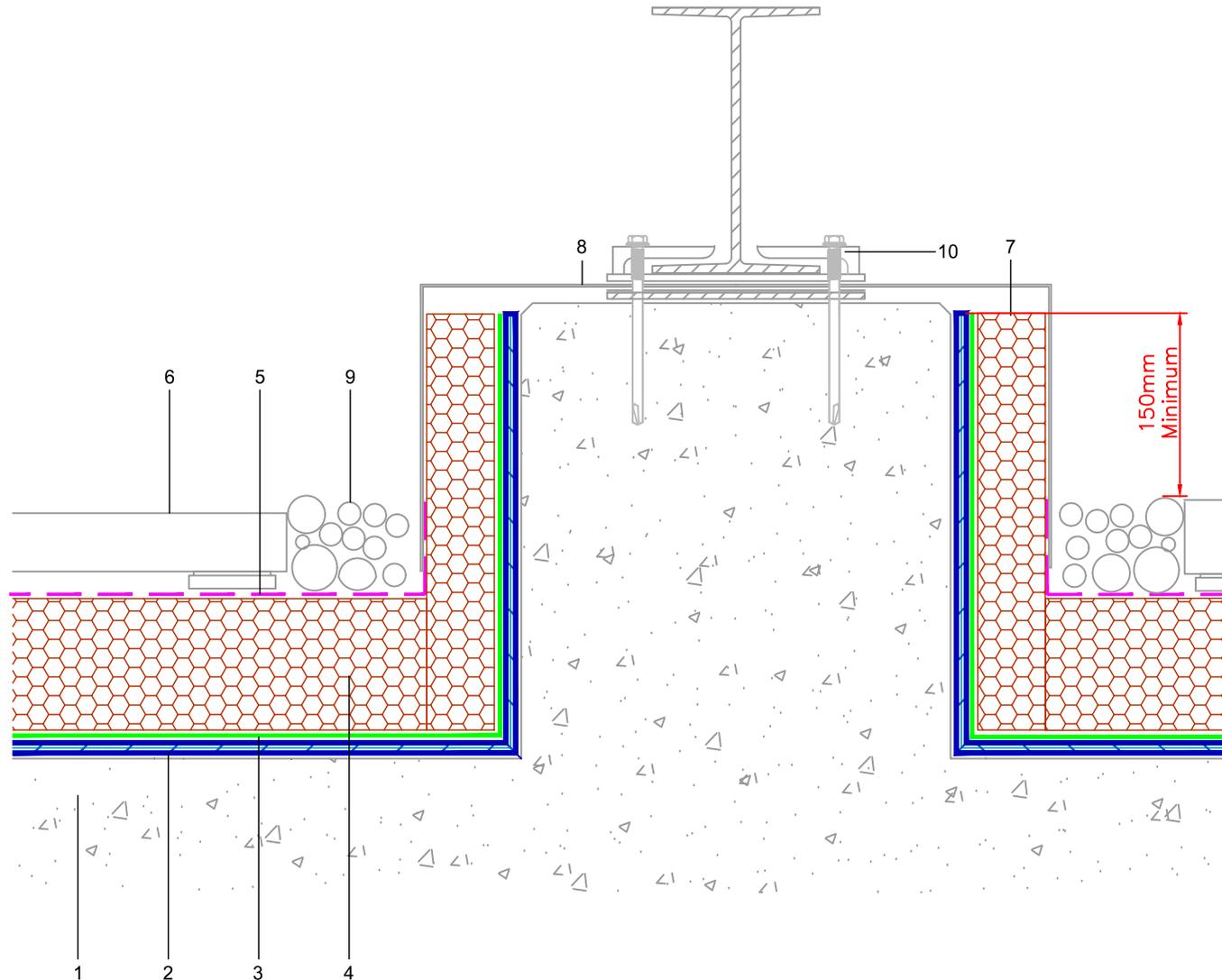
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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE, DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmttechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PLINTH

Date:

April 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.4D

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO ETHERM UPSTAND BOARD INVERTED ROOF INSULATION BOARD |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. METAL FLASHING |
| 3. PERMAGUARD-F PROTECTION LAYER | 9. MINIMUM 50MM LAYER 20-40MM ROUNDED WASHED AGGREGATE |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 10. PLANT SUPPORT STRUCTURE FIXED USING SEALING WASHERS ABOVE AND BELOW THE METAL FLASHING |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |
| 6. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS | |

Wind Uplift

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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL MANSAFE POST

Date:

April 2024

Scale:

NTS

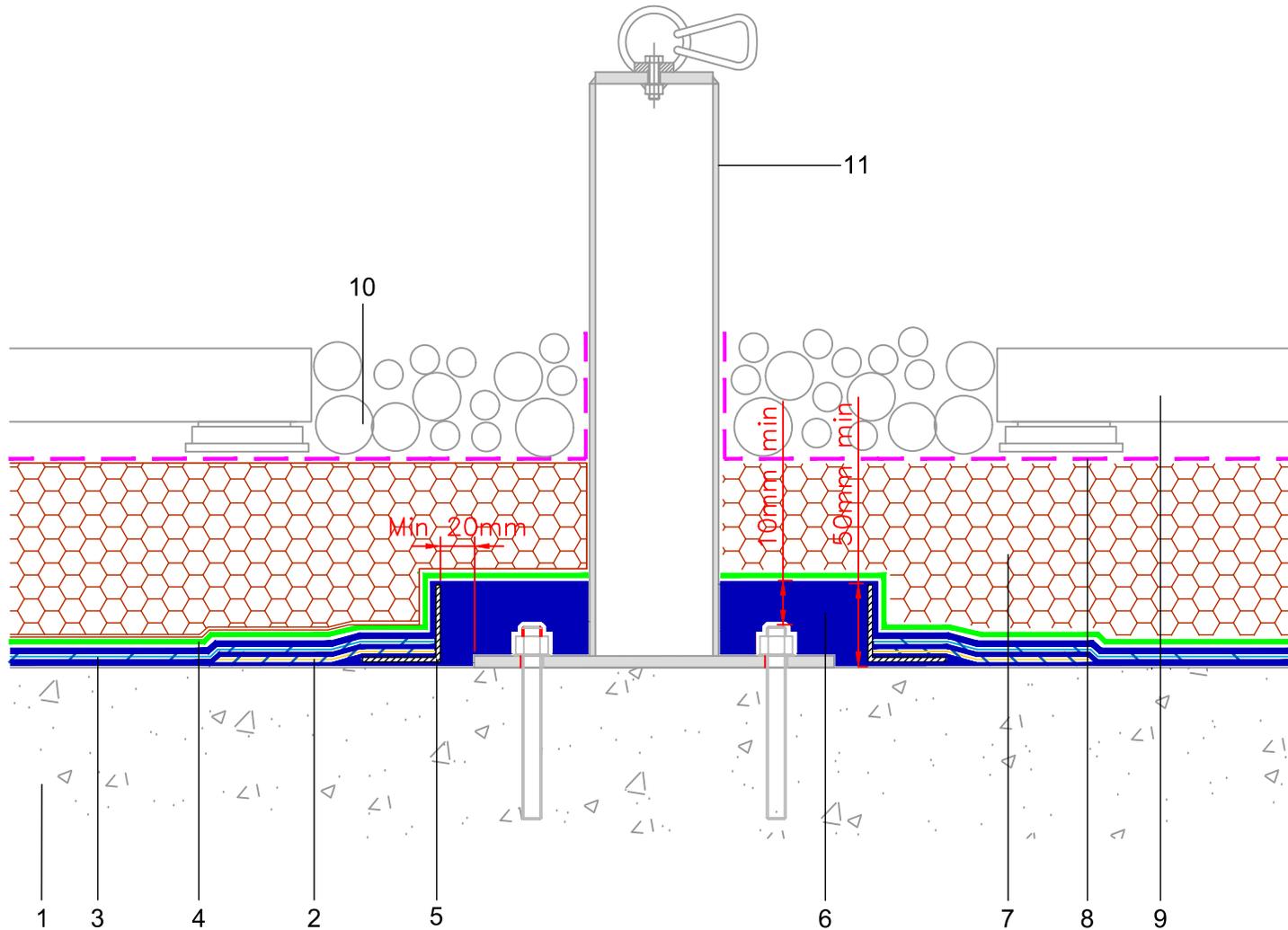
Drawn by:

ME

Revision:

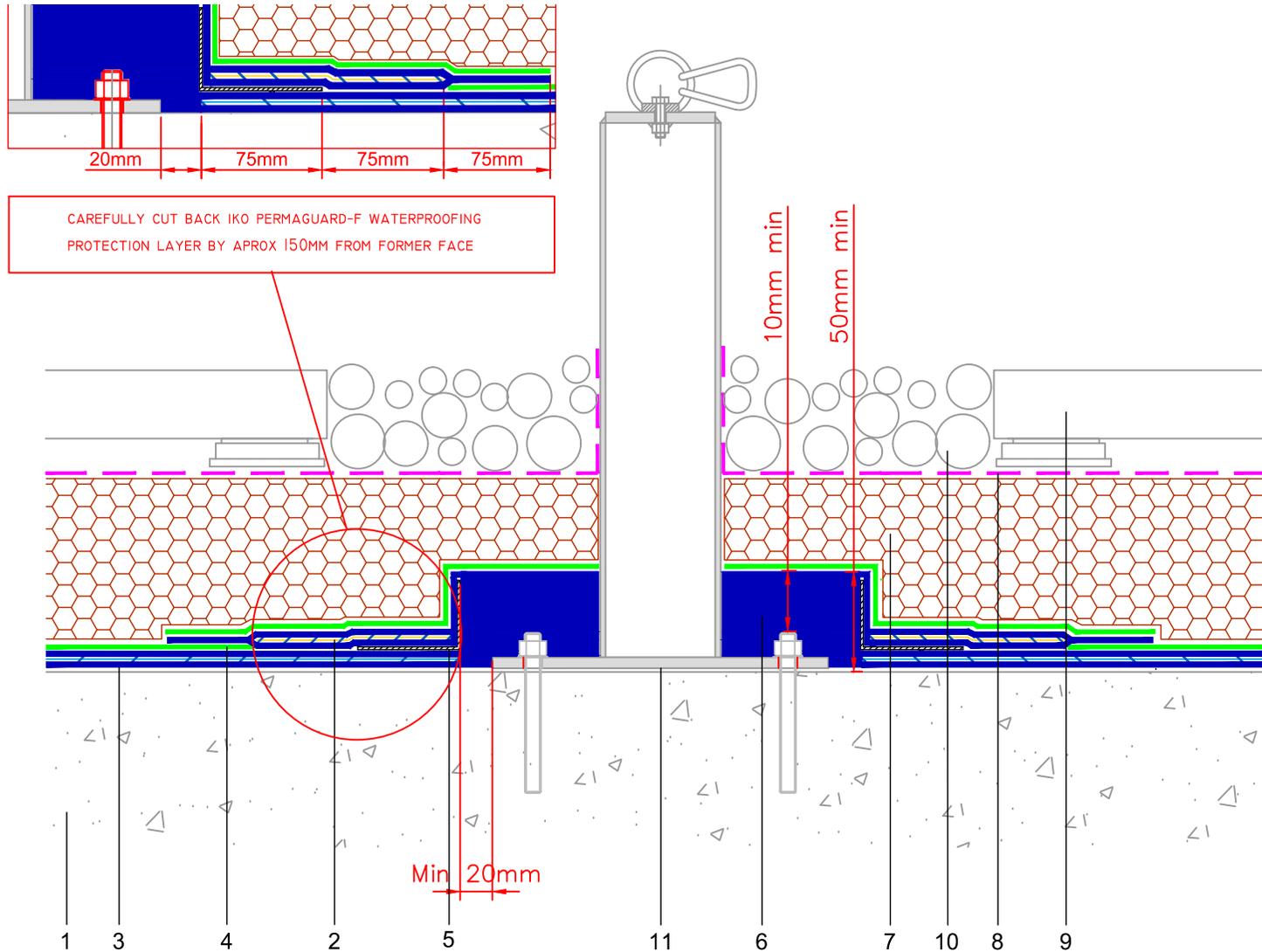
Sheet No:

PT.4E



SECTION KEY:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. PERMAFLASH-D150 DETAILING SHEET BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER 5. GALVANISED STEEL PITCH POCKET FORMER BONDED IN COMPOUND 6. PERMATEC LI Poured INTO FORMER | <ol style="list-style-type: none"> 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 |
|---|---|



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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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL RETROFIT
PITCHPOCKET MANSAFE

Date:

March 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.4F

SECTION KEY:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. PERMAFLASH-D150 DETAILING SHEET BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER 5. GALVANISED STEEL PITCH POCKET FORMER BONDED IN COMPOUND 6. PERMATEC LI POURED INTO FORMER | <ol style="list-style-type: none"> 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 |
|---|---|

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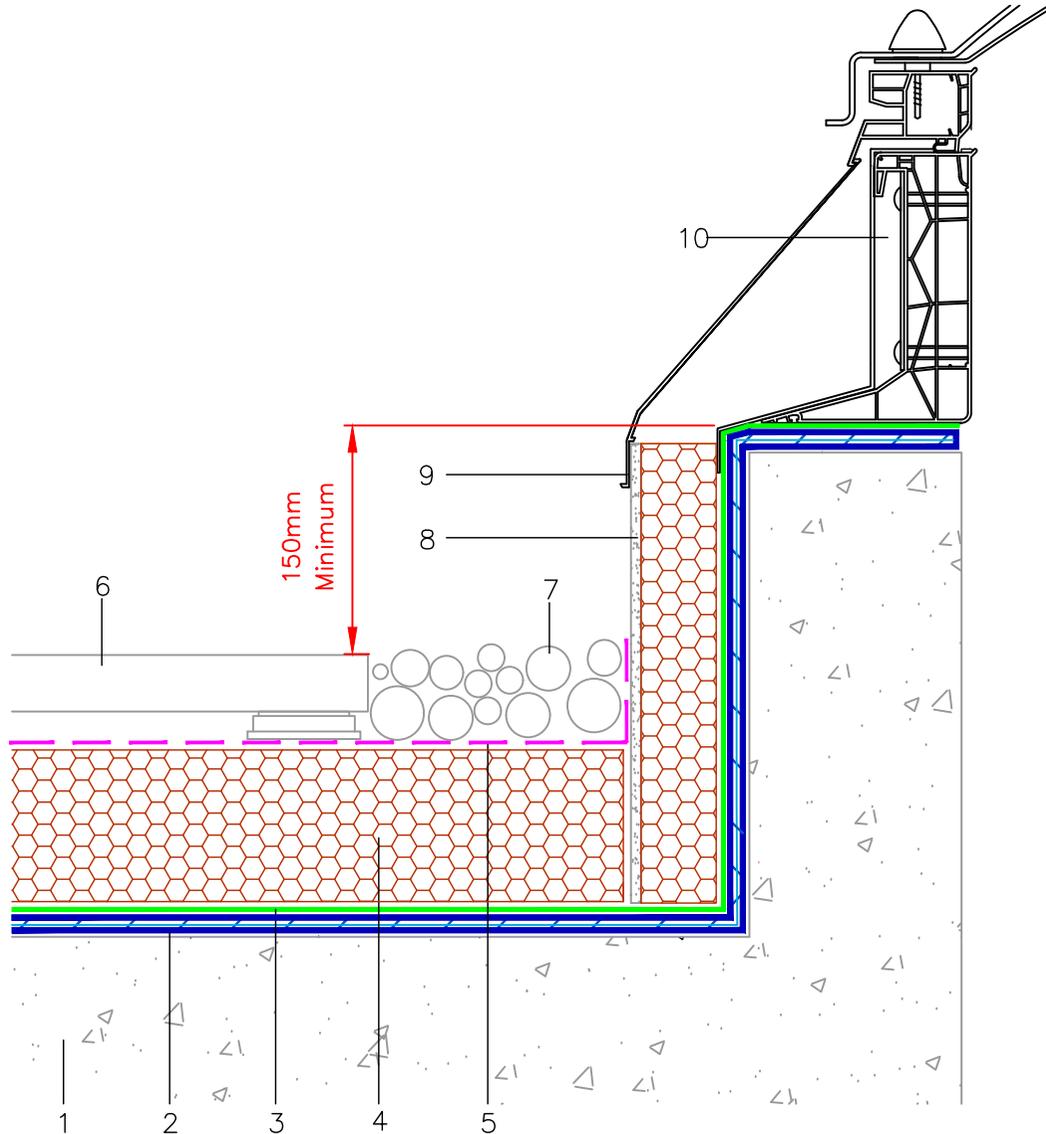
Wind Uplift

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE, DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL KERB TO SMOKE
 VENT/ROOF LIGHT/ACCESS HATCH

| | |
|--------------------|---------------|
| Date: July 2024 | Scale: NTS |
|--------------------|---------------|

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|-----------------|-----------|--------------------|
| Drawn by: ME | Revision: | Sheet No: PT.4H |
|-----------------|-----------|--------------------|

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 6. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. PERMAGUARD-F PROTECTION LAYER | 8. IKO ETHERM UPSTAND BOARD WITH CEMENT FACING |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 9. INTEGRAL HATCH COWL |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 10. SMOKE VENT/ACCESS/ROOFLIGHT |

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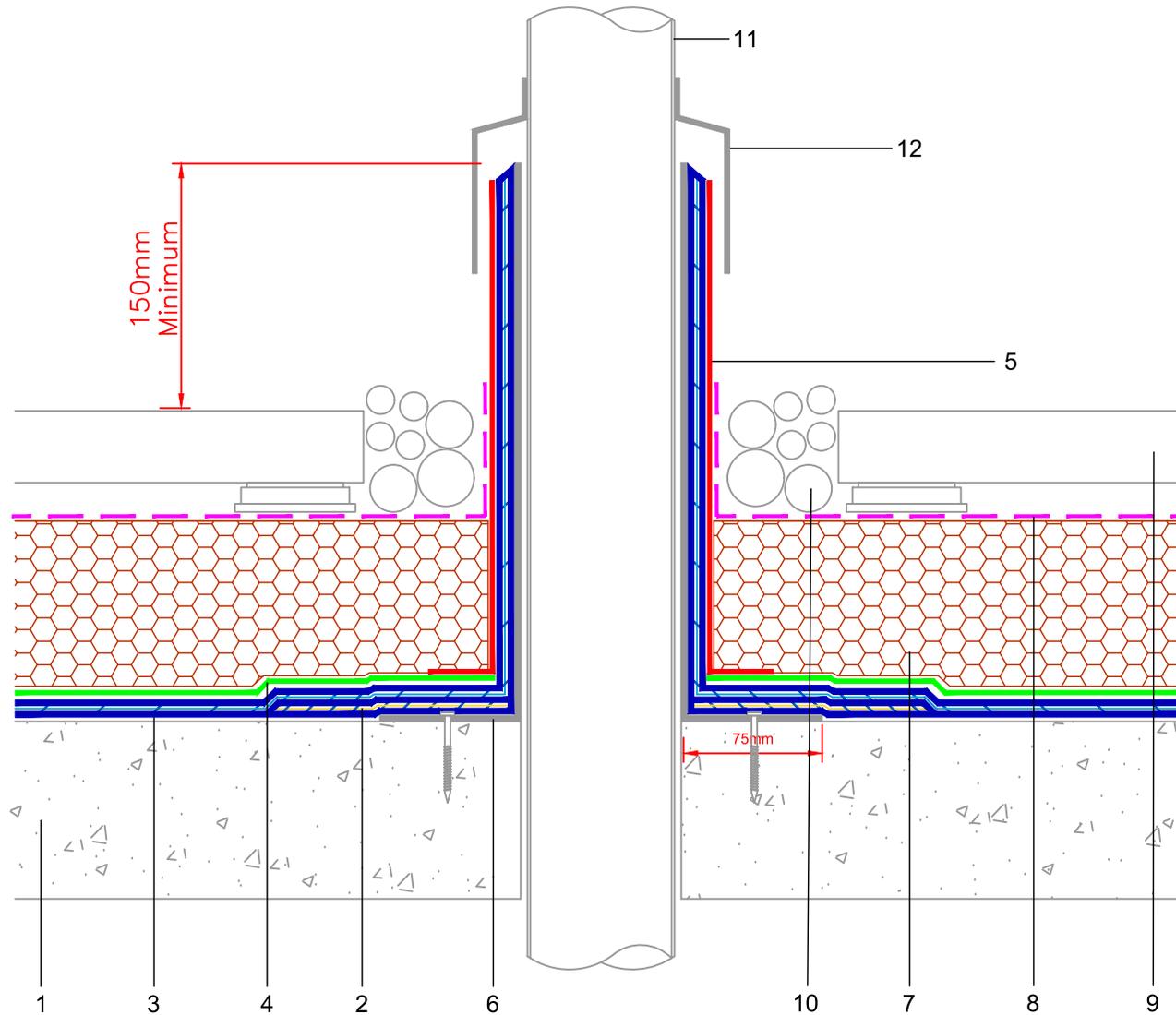
Wind Uplift

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL PLASTIC PIPE WITH
 METAL SLEEVE PENETRATION

| | |
|--------------------|---------------------------------|
| Date: July 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.4I |

- | | |
|--|---|
| <p>SECTION KEY: 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER</p> <p>2. PERMAFLASH-DI50 DETAILING SHEET BONDED IN PERMATEC LI</p> <p>3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT</p> <p>4. PERMAGUARD-F PROTECTION LAYER</p> <p>5. PERMAGUARD-M PROTECTION LAYER (FOR ANY EXPOSED AREA)</p> <p>6. CORROSION RESISTANT METAL PIPE SLEEVE (NOT LEAD)</p> | <p>7. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD</p> <p>8. IKO ENERTHERM WCL (WATER CONTROL LAYER)</p> <p>9. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS</p> <p>10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE</p> <p>11. PLASTIC PIPE</p> <p>12. COLLAR FLASHING</p> |
|--|---|

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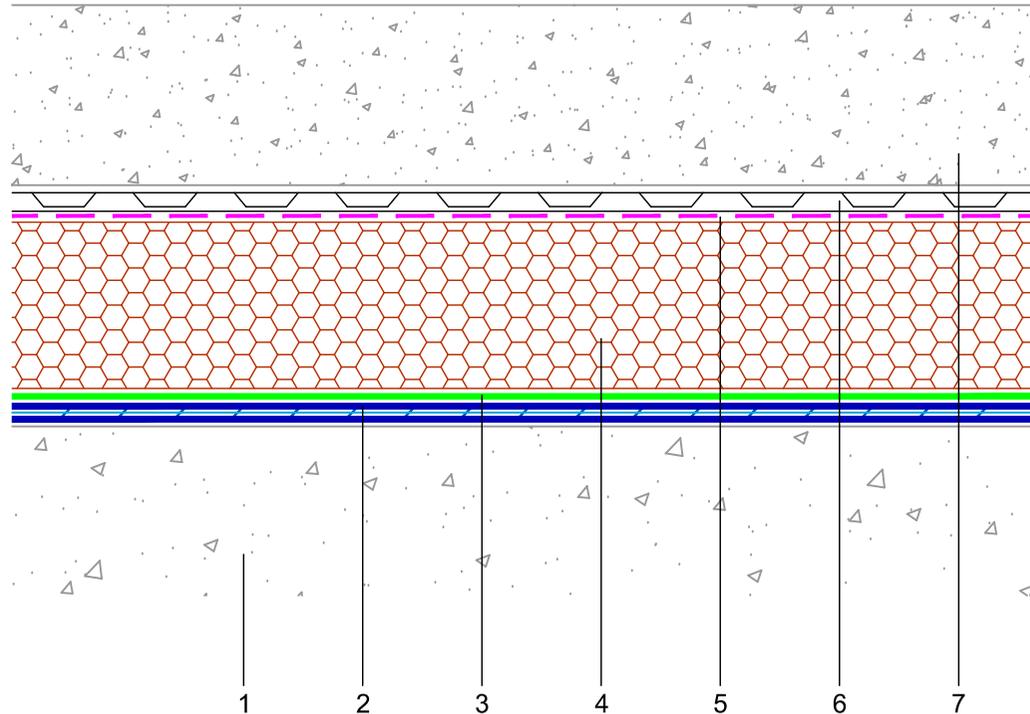
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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gntechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL FLOATING CONCRETE BASE

Date:

April 2024

Scale:

NTS

Drawn by:

ME

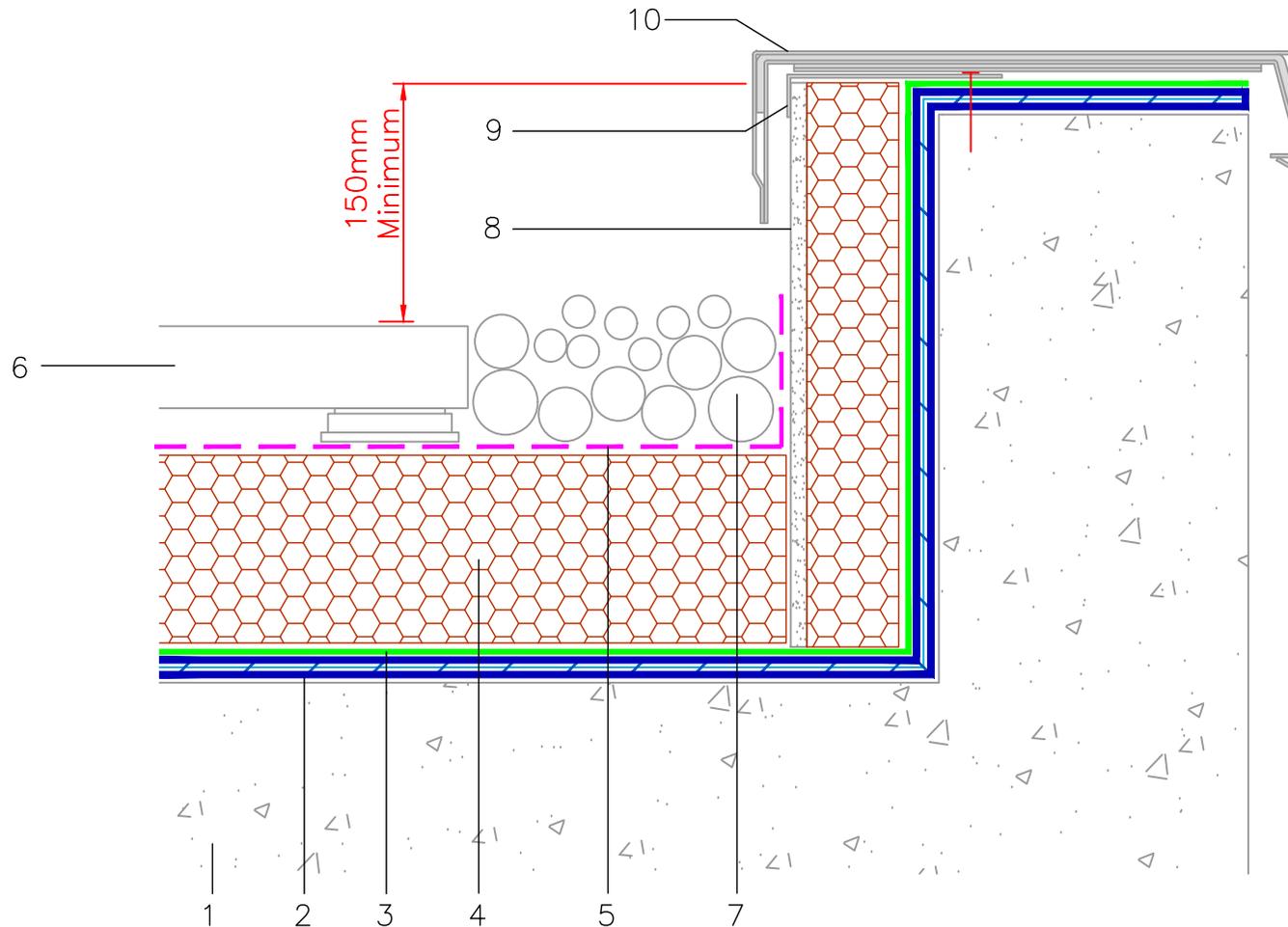
Revision:

Sheet No:

PT.5B

SECTION KEY:

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 3. PERMAGUARD-F PROTECTION LAYER 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | <ol style="list-style-type: none"> 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) 6. IKO PLASDRAINÓ DRAINAGE LAYER 7. CAST CONCRETE SLAB (THE TOTAL LOADING ON INSULATION TO BE CONFIRMED BY INSULATION MANUFACTURER) |
|---|--|



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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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PARAPET WITH CAPPING

Date:

April 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.6A

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 6. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. PERMAGUARD-F PROTECTION LAYER | 8. IKO ETHERM UPSTAND BOARD WITH CEMENTITOUS FACING |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 9. RETENTION CLIP |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 10. CAPPING SYSTEM WITH DPC |

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Hot Melt Waterproofing System

TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PARAPET WITH COPING

Date:

July 2024

Scale:

NTS

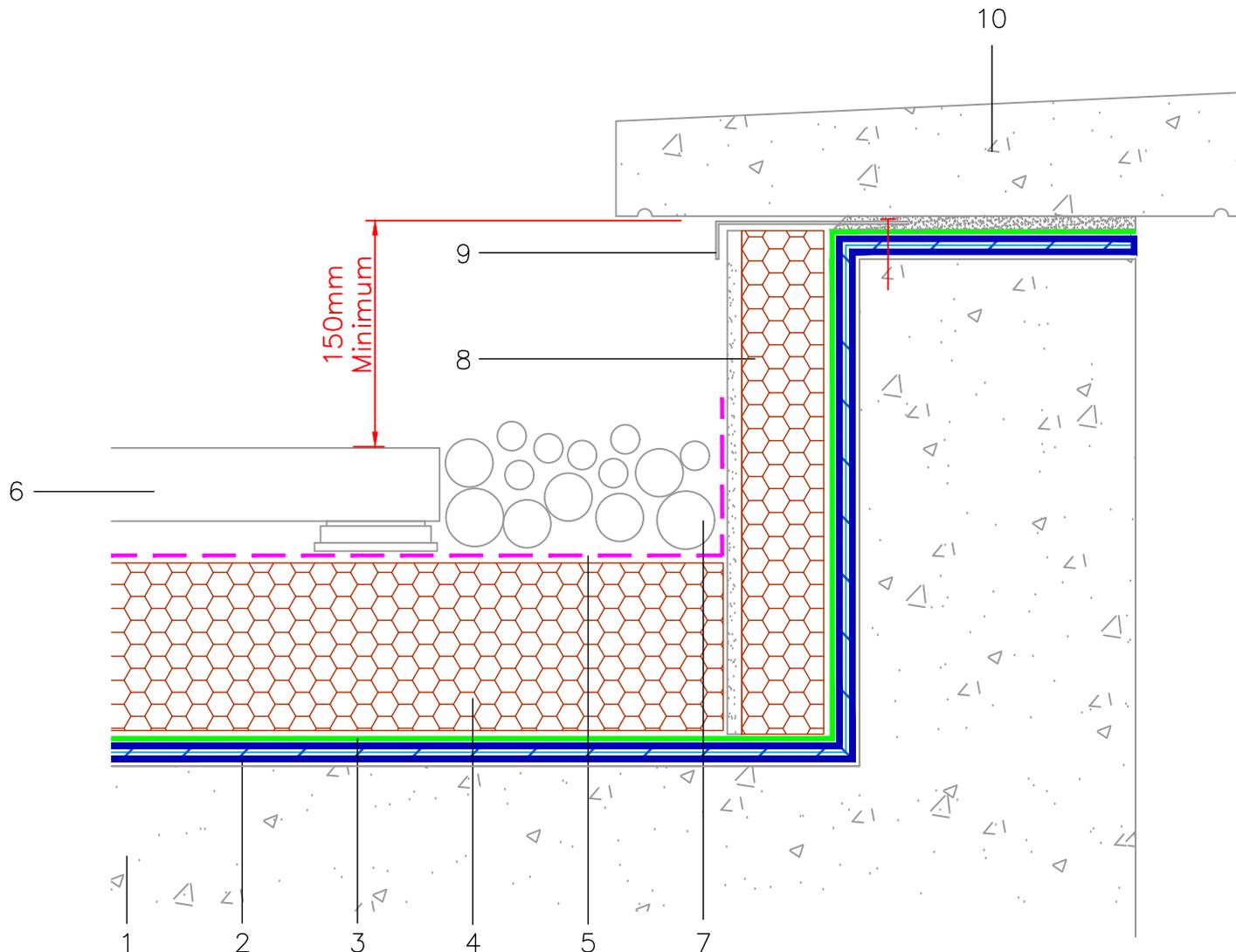
Drawn by:

ME

Revision:

Sheet No:

PT.6B



| SECTION KEY: | 1. | CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. | MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
|--------------|----|---|-----|--|
| | 2. | TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. | IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING |
| | 3. | PERMAGUARD-F PROTECTION LAYER | 9. | METAL RETENTION CLIP |
| | 4. | IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 10. | COPING STONE |
| | 5. | IKO ENERTHERM WCL (WATER CONTROL LAYER) | | |
| | 6. | MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS | | |

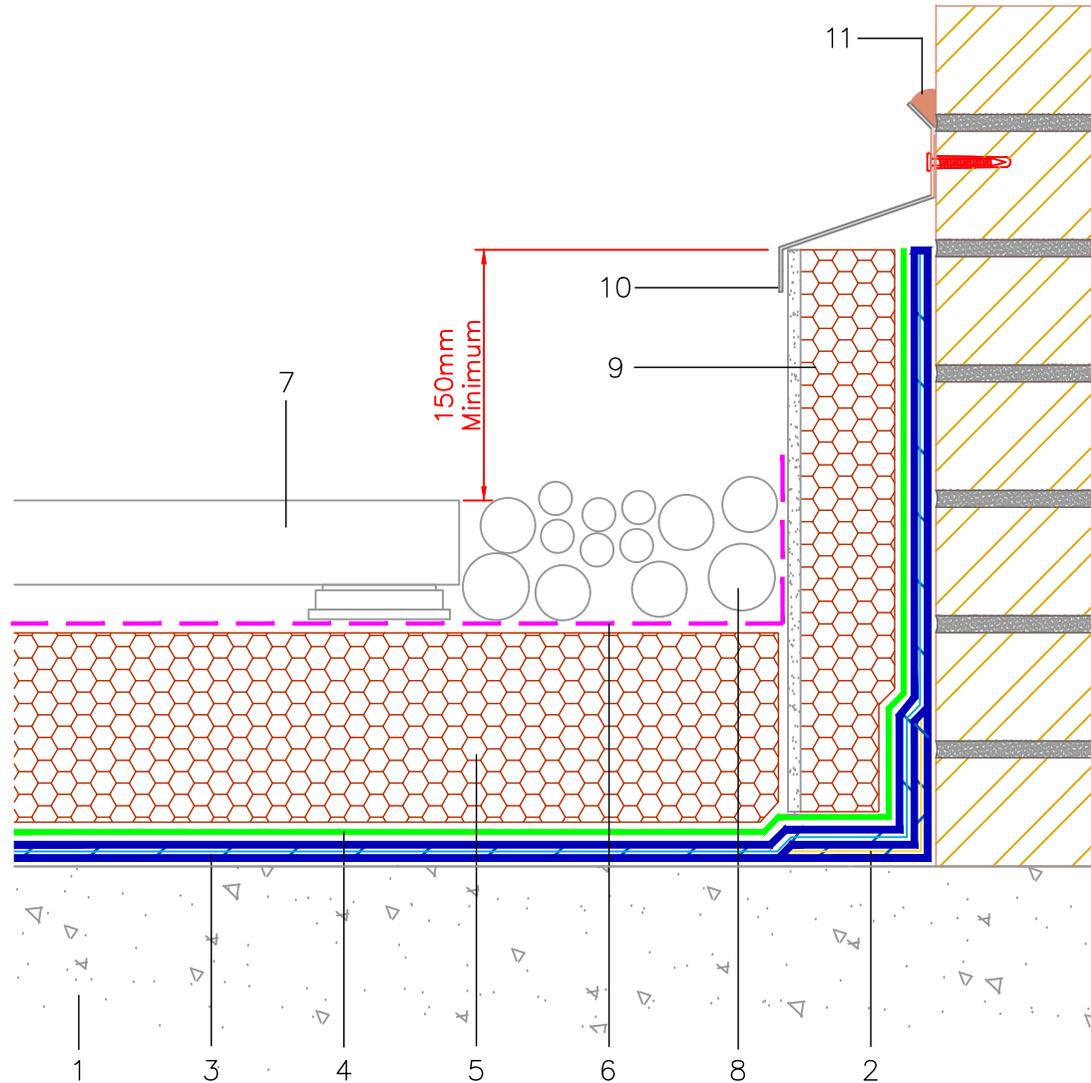
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 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED UPSTAND

Date:

July 2024

Scale:

NTS

Drawn by:

ME

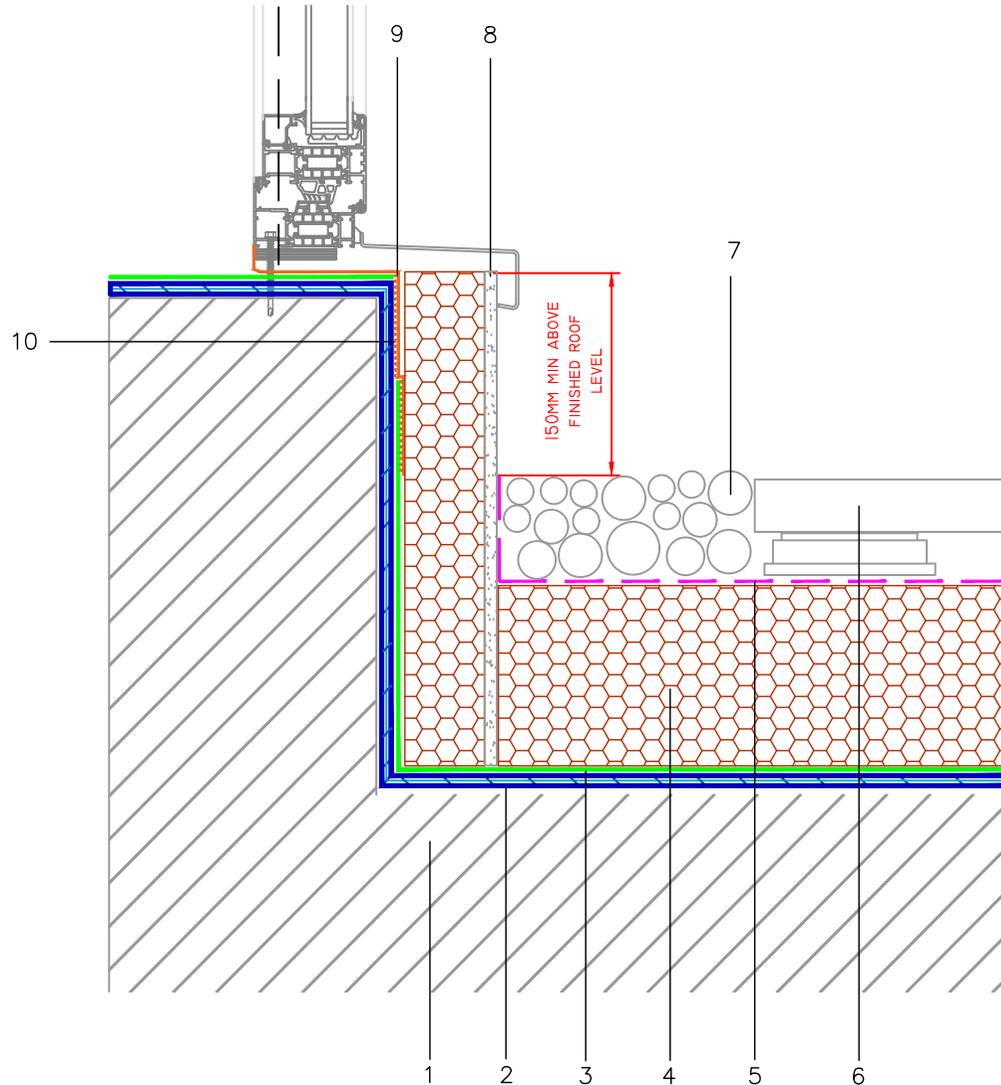
Revision:

Sheet No:

PT.6C

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC LI | 8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING |
| 4. PERMAGUARD-F PROTECTION LAYER | 10. METAL COVER FLASHING |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 11. SEALANT |
| 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |



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

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL CILL DETAIL

Date:

July 2024

Scale:

NTS

Drawn by:

ME

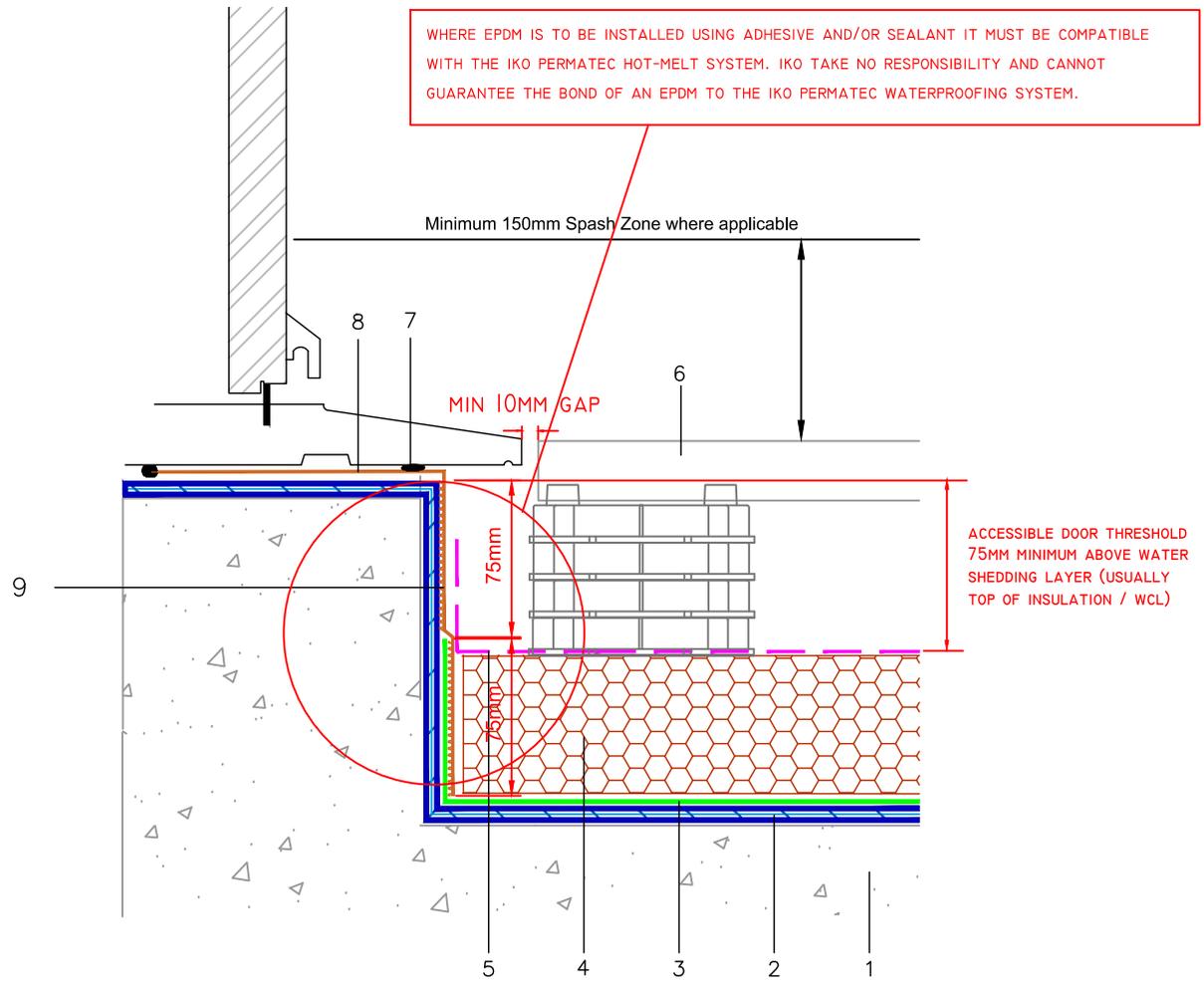
Revision:

Sheet No:

PT.6D

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 6. 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. PERMAGUARD-F PROTECTION LAYER | 8. IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 9. EPDM LAPPED <u>OVER PERMATEC</u> WATERPROOFING SYSTEM BY OTHERS |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 10. BITUMEN COMPATIBLE ADHESIVE |



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 sill 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 sealants 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 or 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 adversely 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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TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
TYPICAL LEVEL ACCESS DOOR THRESHOLD

| | |
|---------------------|---------------------------------|
| Date: April 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.6E |

THIS DETAIL IS ACCEPTED BY NHBC AND BUILDING REGULATIONS FOR ACCESSIBLE DOOR THRESHOLDS ONLY.
ALL OTHERS MUST FOLLOW CoP 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 | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 3. PERMAGUARD-F PROTECTION LAYER | 7. BITUMEN COMPATIBLE SEALANT |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 8. EPDM LAPPED <u>OVER PERMATEC</u> WATERPROOFING SYSTEM AS SHOWN |

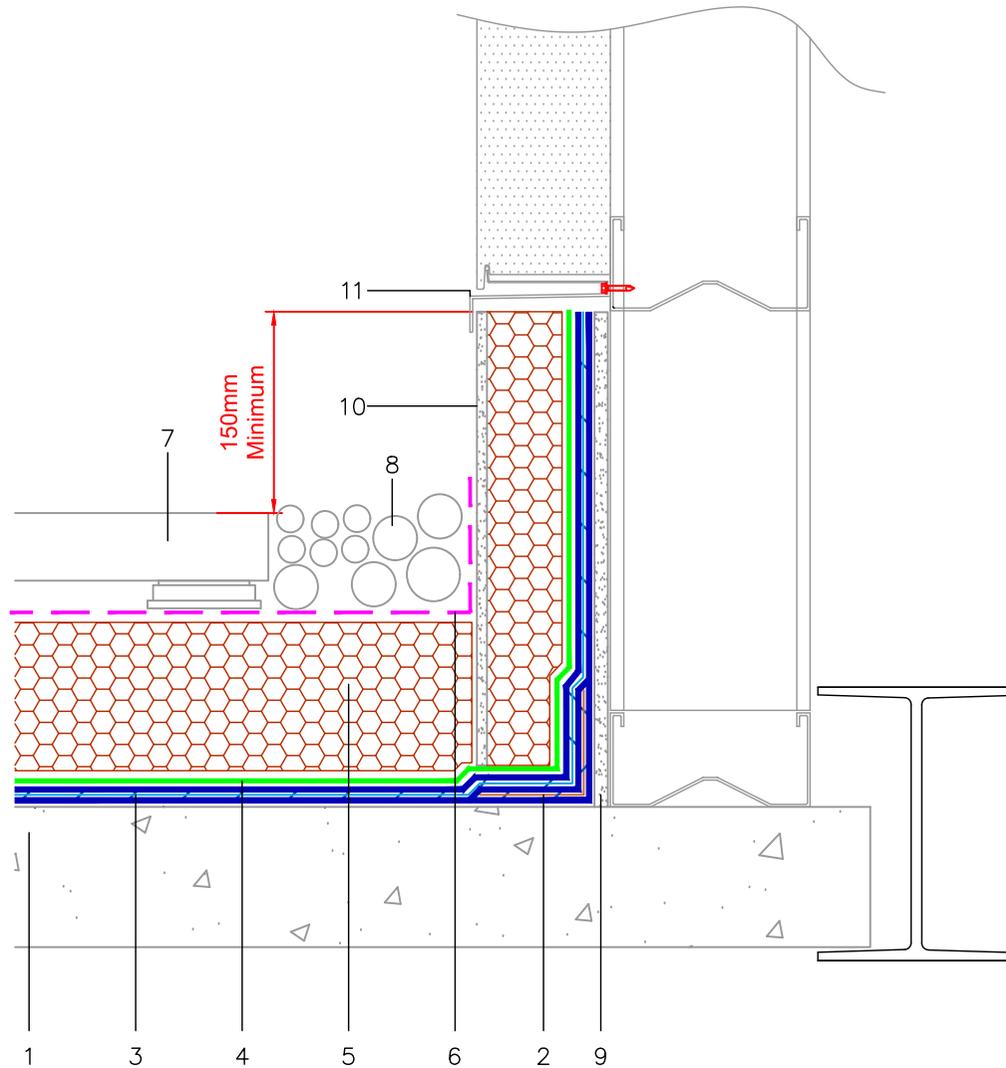
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL UP-STAND
 TO METSEC WALL

Date:

July 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.6G

SECTION KEY:

- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC LI | 8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. 12MM EXTERIOR GRADE CEMENT BONDED PARTICLE BOARD |
| 4. PERMAGUARD-F PROTECTION LAYER | 10. IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 11. METAL COVER FLASHING, INSULATION RETENTION CLIP |
| 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |

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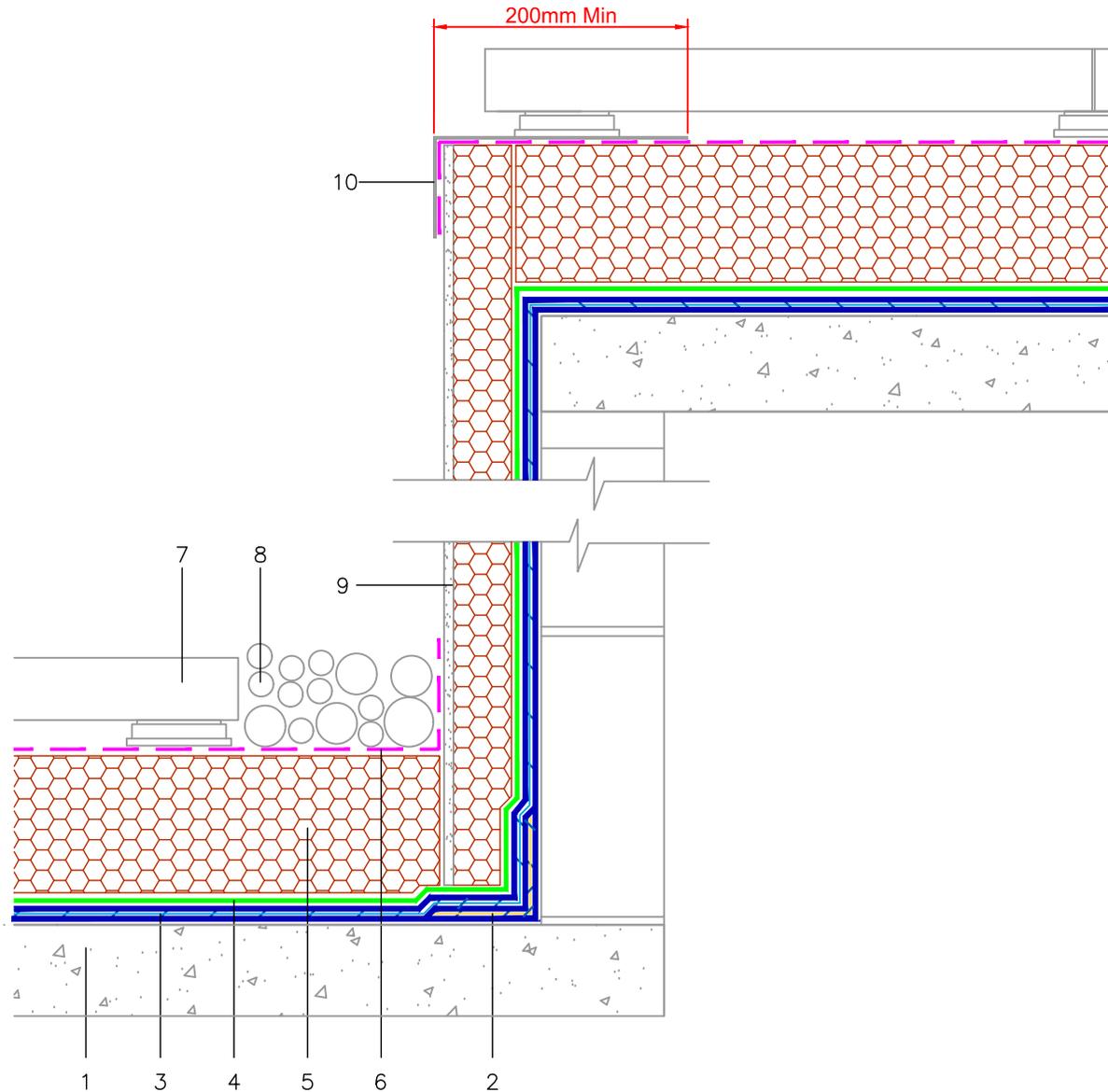
Wind Uplift

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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL INSULATED
 CHANGE IN LEVEL

Date:

July 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.6H

SECTION KEY:

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. PERMAFLASH-D150 DETAILING STRIP BONDED IN PERMATEC LI 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT 4. PERMAGUARD-F PROTECTION LAYER 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | <ol style="list-style-type: none"> 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) 7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS 8. MINIMUM 50MM LAYER OF 20-40MM WASHED AGGREGATE 9. IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING 10. CORROSIVE RESISTANT METAL FLASHING |
|---|---|

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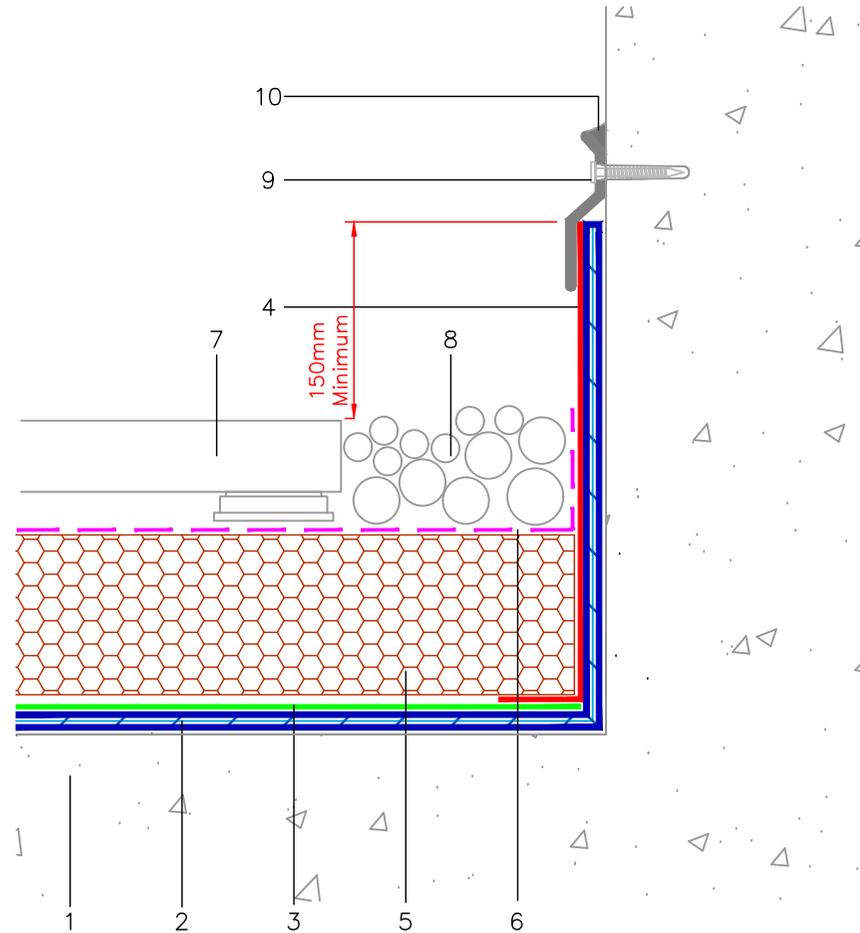
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE, DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL UN-INSULATED UP-STAND
 WITH TERMINATION BAR

Date:

April 2024

Scale:

NTS

Drawn by:
ME

Revision:

Sheet No:
PT.6I

SECTION KEY:

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

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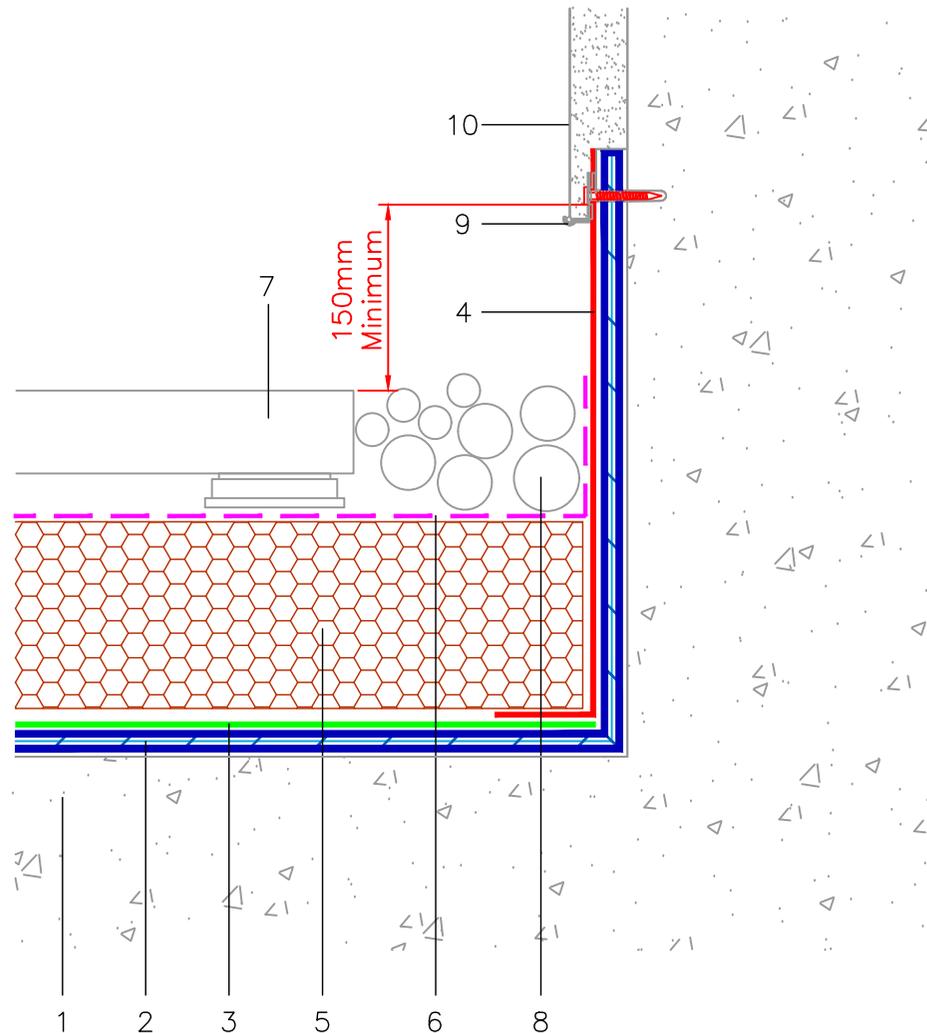
Wind Uplift

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 (98Kg/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.

Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL RENDERED
 UP-STAND

Date:

April 2024

Scale:

NTS

Drawn by:

ME

Revision:

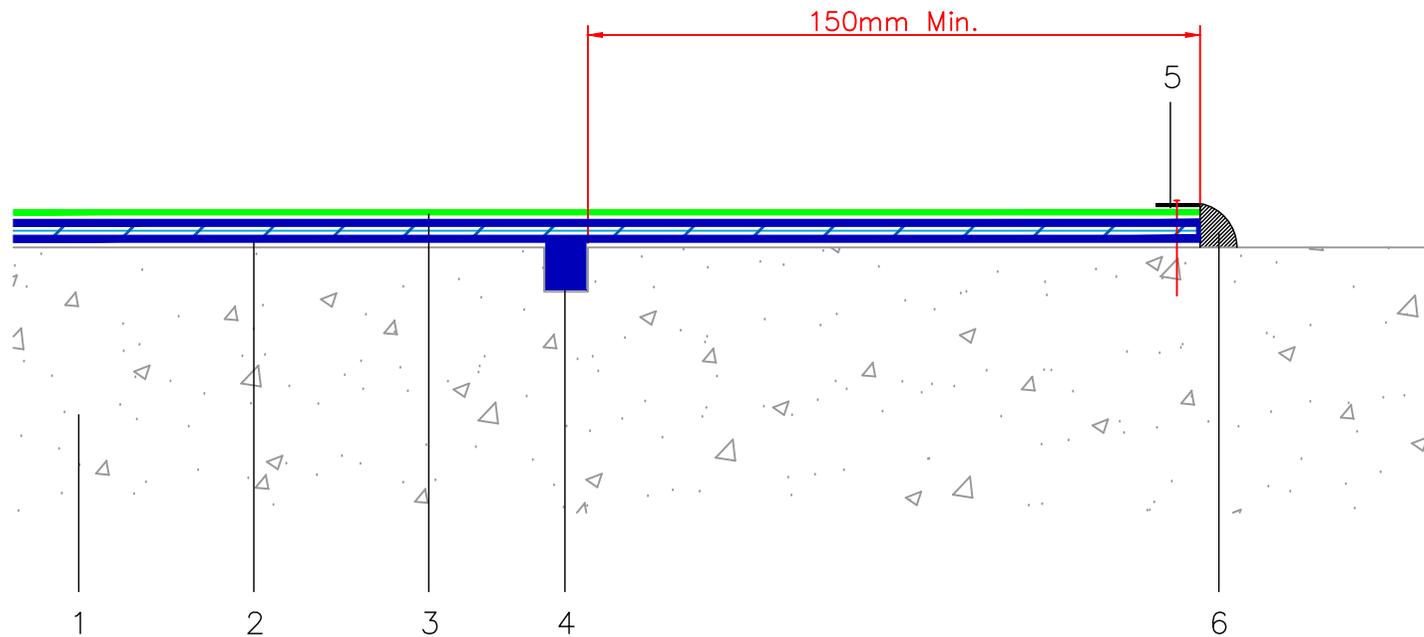
Sheet No:

PT.6J

SECTION KEY:

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

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Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

HORIZONTAL EDGE
 TERMINATION

Date:

April 2024

Scale:

NTS

Drawn by:
 ME

Revision:

Sheet No:
 PT.6K

SECTION KEY:

- | | |
|---|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 4. 25 x 25MM CUT FILLED WITH PERMATEC LI |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 5. METAL TERMINATION BAR FIXED AT 150MM CRS |
| 3. PERMAGUARD-F PROTECTION LAYER (PERMAGUARD-M IF TO BE LEFT EXPOSED TO UV) | 6. BITUMEN COMPATIBLE SEALANT |

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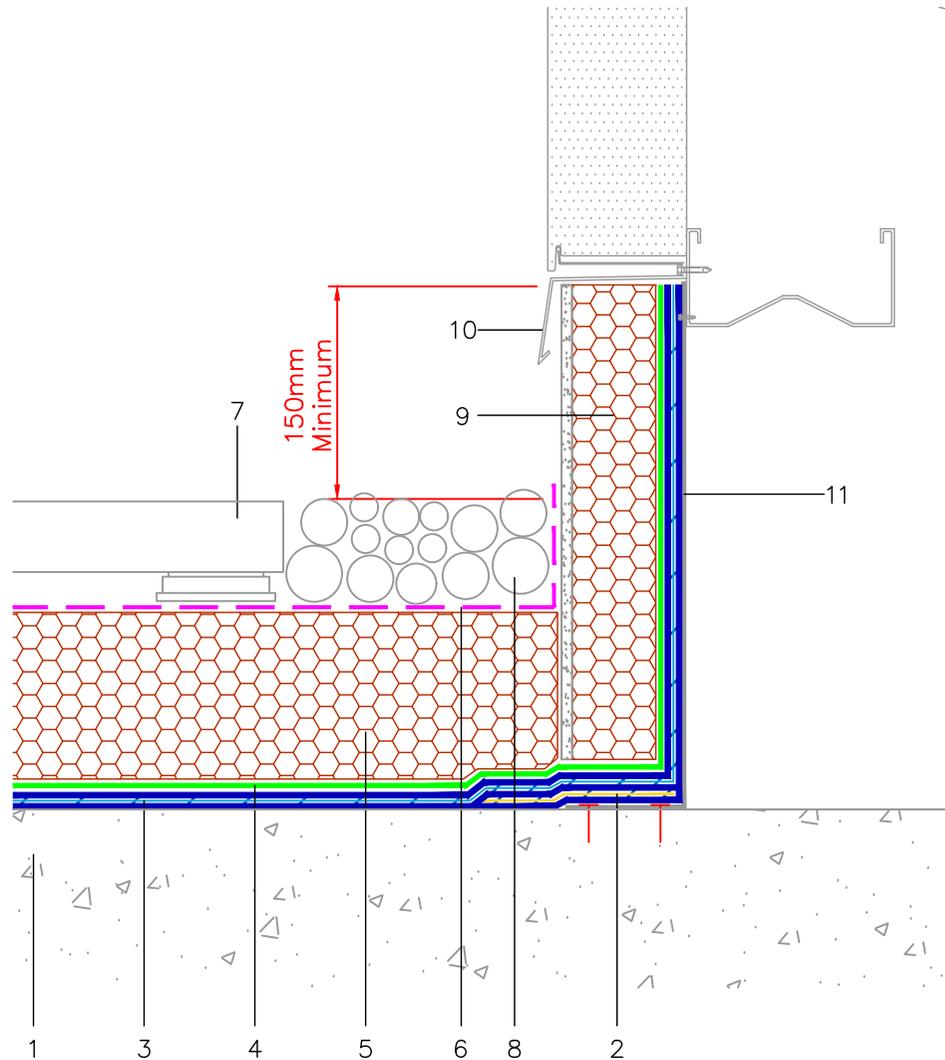
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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL METAL ANGLED
 CLOSER TO UP-STAND

Date:

July 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.6L

- SECTION KEY:
- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 2. PERMAFLASH-D150 DETAILING STRIP BONDED IN PERMATEC LI | 8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. IKO ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING |
| 4. PERMAGUARD-F PROTECTION LAYER | 10. METAL COVER FLASHING |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 11. GALVANISED METAL CLOSER |
| 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |

Wind Uplift

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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



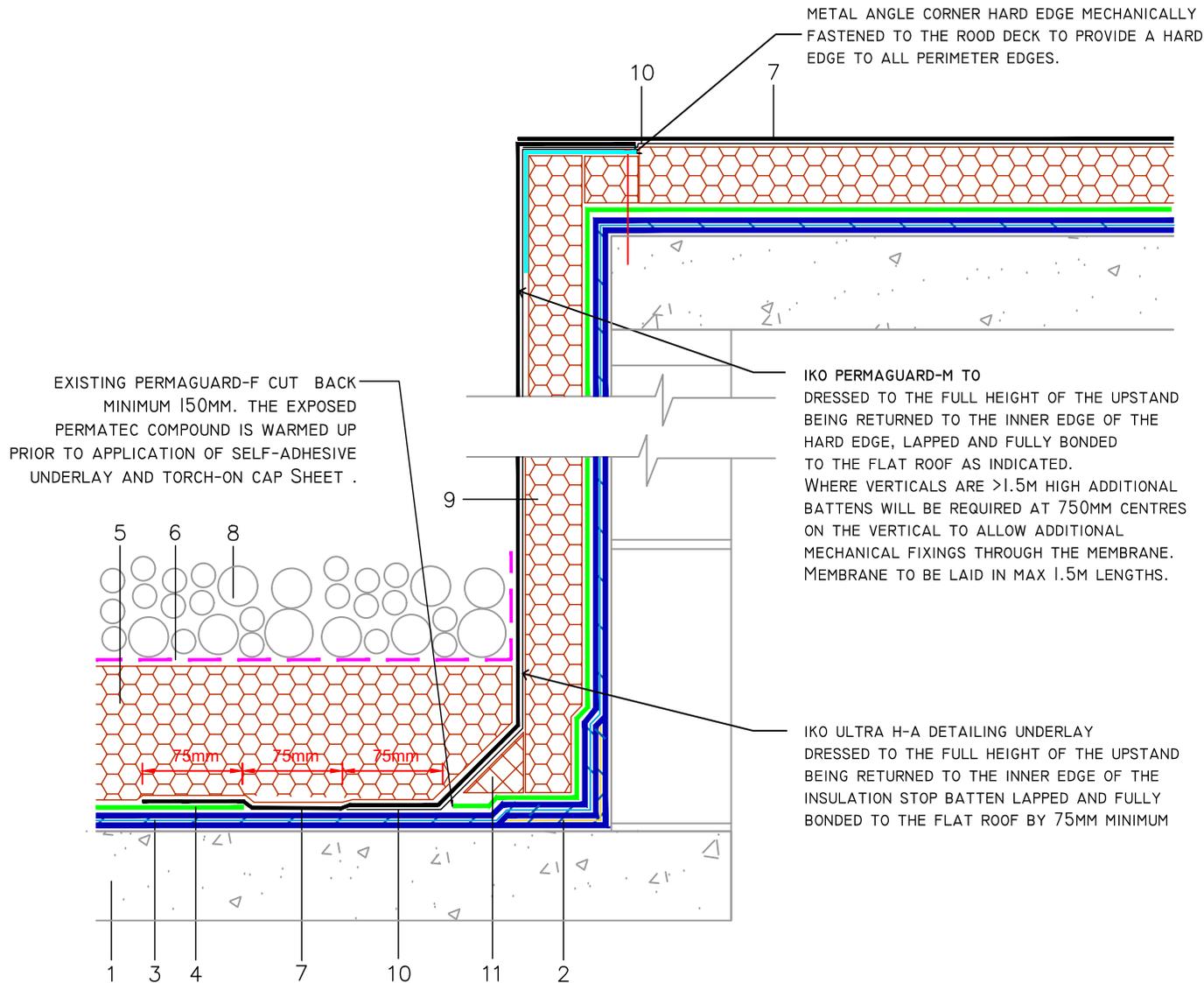
TECHNICAL SERVICES
PROSPECT QUARRY, GRANGEMILL,
MATLOCK, DERBYSHIRE. DE4 4BW
Tel: 01257 256888
Internet: www.ikogroup.co.uk
Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
TYPICAL WARM ROOF LIFT OVERRUN
JOIN TO WARM ROOF BUR

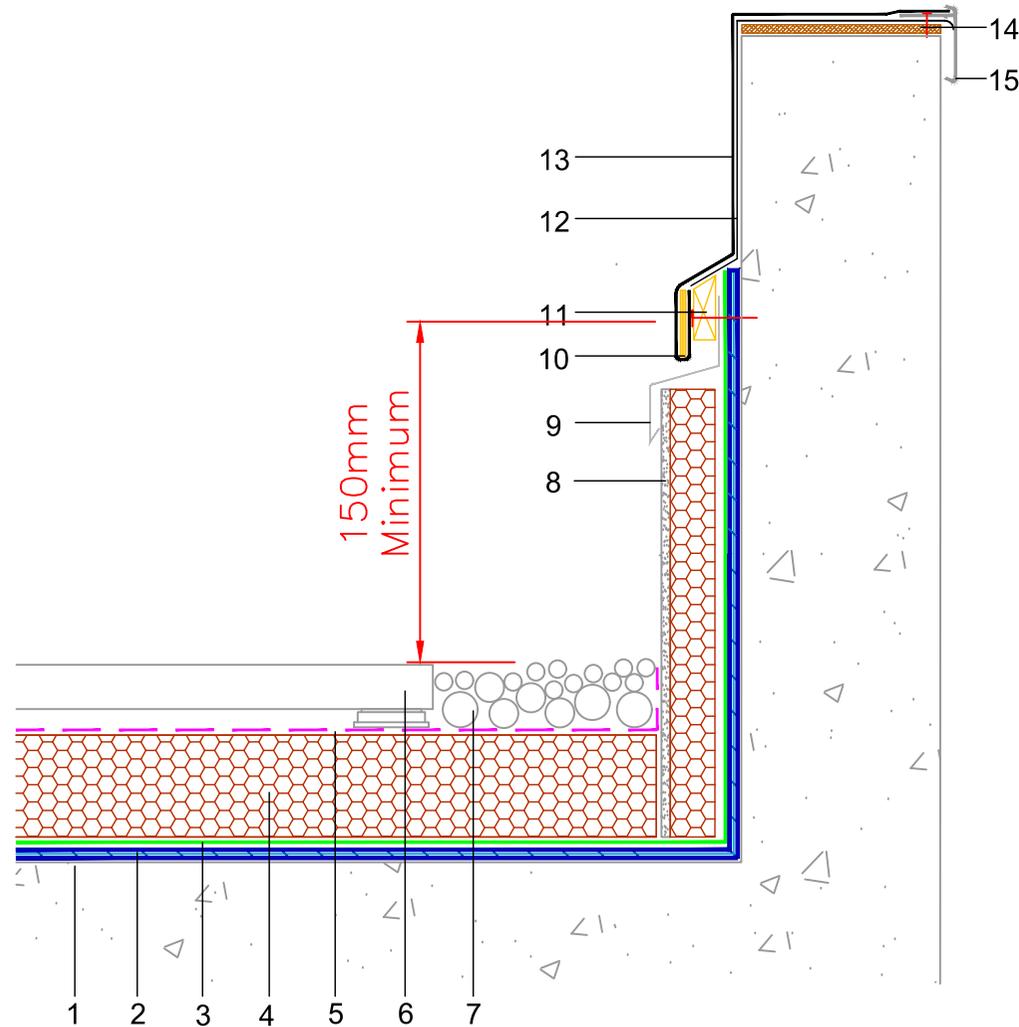
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|--------------------|---------------|
| Date: July 2024 | Scale: NTS |
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| Drawn by: ME | Revision: | Sheet No: PT.6M |
|-----------------|-----------|--------------------|



- SECTION KEY:
- | | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO PERMAGUARD-M T-O |
| 2. PERMAFLASH-DI50 DETAILING STRIP BONDED IN PERMATEC LI | 8. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 3. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. IKO ENERTHERM GOLD INSULATION BOARD/IKO MW ALLFIX INSULATION |
| 4. PERMAGUARD-F PROTECTION LAYER | 10. IKO ULTRA H-A DETAILING UNDERLAY |
| 5. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 11. IKO ALU ANGLE FILLET/IKO MW ALLFIX ANGLE FILLET |
| 6. IKO ENERTHERM WCL (WATER CONTROL LAYER) | |

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Wind Uplift

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Note: Detail to illustrate lapping & waterproofing arrangements in relation to IKO specified roofing system. The client / Contractor is to confirm with relevant parties any limitations or restrictions of vertical application in relation to Building Regulations Approved Document B prior to works.



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:

TYPICAL PERMATEC TO BUR PARAPET

Date:

July 2024

Scale:

NTS

Drawn by:

ME

Revision:

Sheet No:

PT.7A

- | | |
|--|---|
| <p>SECTION KEY:</p> <ol style="list-style-type: none"> 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER 2. TWO COATS OF PERMATEC LI 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 ETHERM UPSTAND BOARD WITH CEMENTITIOUS FACING | <ol style="list-style-type: none"> 9. FLASHING 10. 6MM THICK PLYWOOD DRIP FORMER 11. TIMBER DRIP BATTEN 12. IKO ULTRA H-A DETAILING UNDERLAY 13. IKO PERMAGUARD-M TO 14. TIMBER CAPPING 15. IKO GRP TRIM |
|--|---|

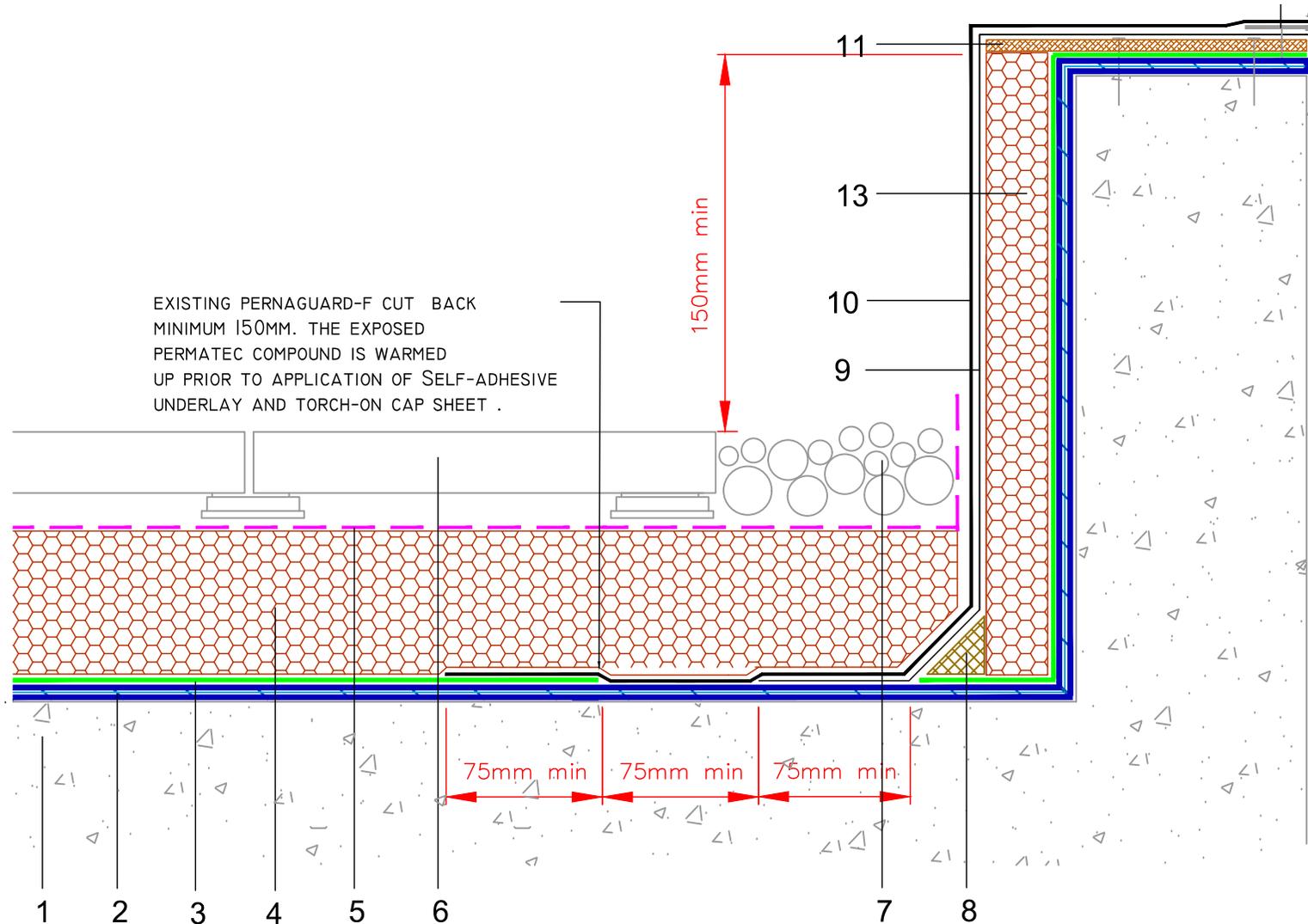
Wind Uplift

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EXISTING PERMAGUARD-F CUT BACK MINIMUM 150MM. THE EXPOSED PERMATEC COMPOUND IS WARMED UP PRIOR TO APPLICATION OF SELF-ADHESIVE UNDERLAY AND TORCH-ON CAP SHEET .

150mm min

75mm min 75mm min 75mm min

- SECTION KEY:
- | | |
|--|--|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 8. IKO ALU ANGLE FILLET/IKO MW ALLFIX ANGLE FILLET |
| 2. TWO COATS OF PERMATEC LI INCORPORATING PERMAFLASH-R REINFORCEMENT | 9. IKO ULTRA H-A DETAILING UNDERLAY |
| 3. PERMAGUARD-F PROTECTION LAYER | 10. IKO PERMAGUARD-M TO |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 11. WBP PLYWOOD |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 12. IKO GRP TRIM |
| 6. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS | 13. IKO ENERTHERM GOLD INSULATION/IKO MW ALLFIX INSULATION |
| 7. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE | |



TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL WARM BUR PARAPET

| | | |
|--------------------|---------------|--------------------|
| Date: July 2024 | Scale: NTS | |
| Drawn by: ME | Revision: | Sheet No: PT.7B |

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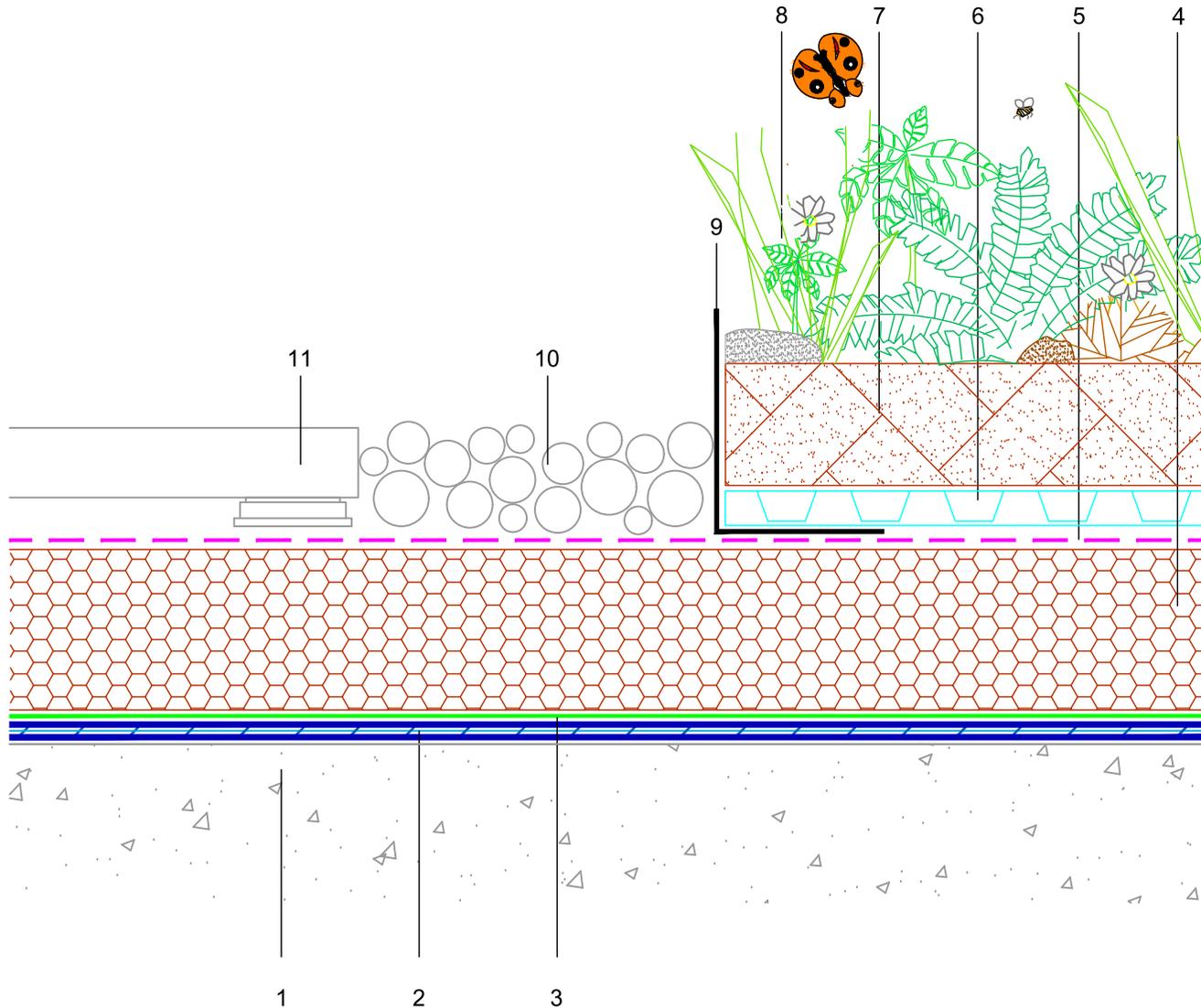
Wind Uplift

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 (98Kg/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.



Hot Melt Waterproofing System

TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
TYPICAL BIODIVERSE/PAVING INTERFACE

| | |
|----------|--------|
| Date: | Scale: |
| May 2024 | NTS |

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

- SECTION KEY:
- | | |
|--|---|
| 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 7. IKO BIODIVERSE GROWING MEDIUM TO SPECIFIED DEPTH |
| 2. TWO COATS OF PERMATEC LI ANTI-ROOT INCORPORATING PERMAFLASH-R REINFORCEMENT | 8. IKO VEGETATION AS SPECIFIED |
| 3. PERMAGUARD - F PROTECTION LAYER | 9. PERFORATED RETENTION STRIP |
| 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | 10. MINIMUM 50MM LAYER OF 20-40MM ROUNDED WASHED AGGREGATE |
| 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) | 11. MINIMUM 40MM THICK PAVING SLABS ON PROPRIETARY SUPPORTS |
| 6. IKO PLASFEED DRAINAGE/MOISTURE RETENTION LAYER | |

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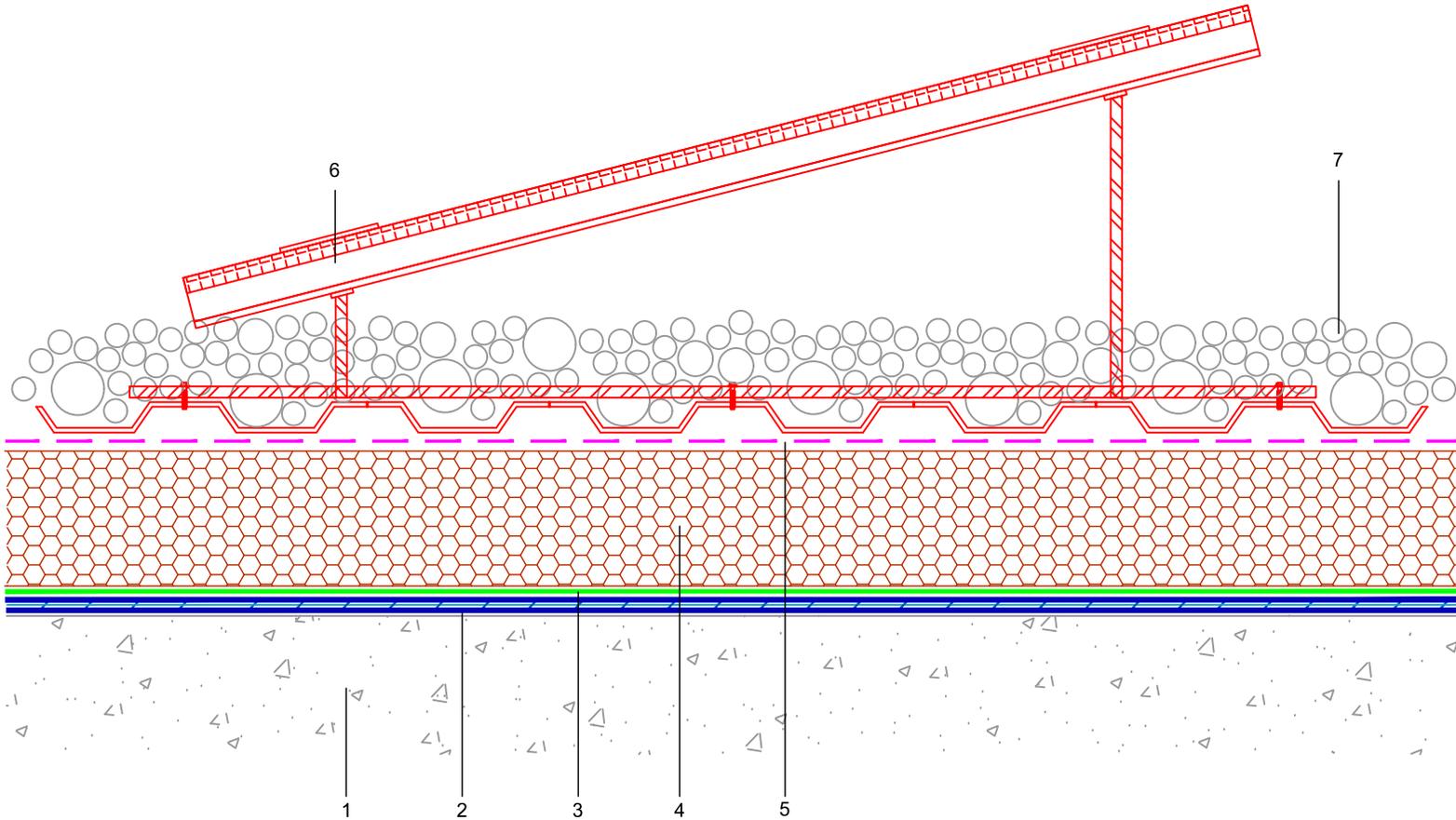
Wind Uplift

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TECHNICAL SERVICES
 PROSPECT QUARRY, GRANGEMILL,
 MATLOCK, DERBYSHIRE. DE4 4BW
 Tel: 01257 256888
 Internet: www.ikogroup.co.uk
 Email: gmtechnical@iko.com

STANDARD DETAIL

Drawing Title:
 TYPICAL INVERTED ROOF
 WITH PV PANNEL

| | |
|-------------------|---------------------------------|
| Date: May 2024 | Scale: NTS |
| Drawn by: ME | Revision: Sheet No: PT.8B |

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|--------------|--|--|
| SECTION KEY: | 1. CONCRETE DECK PRIMED WITH PERMATEC PRIMER | 5. IKO ENERTHERM WCL (WATER CONTROL LAYER) |
| | 2. TWO COATS OF PERMATEC LI OR LI ANTI-ROOT INCORPORATING PERMAFLASH-R REINFORCEMENT | 6. PV PANNEL ASSEMBLY |
| | 3. PERMAGUARD-F PROTECTION LAYER | 7. MINIMUM 50MM LAYER OF 20 - 40MM ROUNDED WASHED AGGREGATE OR GREEN ROOF SYSTEM |
| | 4. IKO ENERTHERM XPS/EPS INVERTED ROOF INSULATION BOARD | |



IKO PLC
Appley Lane North
Appley Bridge
Wigan
WN6 9AB

t: 01257 255771
e: getintouch.uk@iko.com

Member of the IKO Group



IKO Grangemill
Prospect Quarry
Grangemill
Matlock
DE4 4BW



IKO GROUP.CO.UK

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