KORE Insulated Foundation System

Construction Details
# Table of Contents

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Date</th>
<th>Rev No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CW1_14 - KORE Insulated Foundation &amp; Cavity Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>2</td>
<td>EWI_89 – KORE Insulated Foundation &amp; Blockwork with EWI</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>3</td>
<td>ICF_07 – KORE Insulated Foundation &amp; ICF Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>4</td>
<td>TF_06 – KORE Insulated Foundation &amp; Timber Frame Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>5</td>
<td>TF_10 – KORE Insulated Foundation &amp; Timber Frame Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>6</td>
<td>TF_46 – KORE Insulated Foundation &amp; Timber Frame Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>7</td>
<td>GEN_01 – KORE Insulated Foundation Internal Load Bearing Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>8</td>
<td>GEN_01 – KORE Insulated Foundation Internal Non-Load Bearing Wall</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>9</td>
<td>SD001 - Timber Frame Separating Wall Foundation Detail</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>10</td>
<td>SD002 - Light Gauge Steel Frame Separating Wall Foundation Detail</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>11</td>
<td>SD003 - Solid Concrete Block Separating Wall Foundation Detail</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
<tr>
<td>12</td>
<td>SD004 - Cavity Block Wall Separating Wall Foundation Detail</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>13</td>
<td>SD005 - Full Height Glazing Detail</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>14</td>
<td>SD006 - ESB Duct Penetration of Foundation Detail</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>15</td>
<td>SD007 - Service Penetration of Floor Slab</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>16</td>
<td>SD008 - Waste Pipe Detail</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>17</td>
<td>SD009 - Oil Pipe Service Penetration (Internal Oil Boiler)</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>18</td>
<td>SD010 - Gas Pipe Penetration Through Foundation System</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>19</td>
<td>SD011 - Corner Post with Recessed Base Plate (If Required)</td>
<td>30/01/2020</td>
<td>Rev No 1</td>
</tr>
<tr>
<td>20</td>
<td>SD014 - Threshold Detail</td>
<td>28/05/2020</td>
<td>Rev No 4</td>
</tr>
</tbody>
</table>
KORE Insulated Foundation System - Block External Leaf & Slab over Insulation

- 170MM KORE FILL DIAMOND BONDED BEAD INSULATION THERMAL CONDUCTIVITY 0.033 W/MK
- 100MM STANDARD BLOCK OUTER LEAF
- WALL TIES TO MANUFACTURERS SPECIFICATIONS AND DETAILS
- RADON BARRIER BELOW FIRST LAYER OF INSULATION WITH RADON RESISTING SEALING TAPE TO AVOID RISING MOISTURE LAPPING UP AND OVER PROFILE MINIMUM OF 150MM FROM GROUND LEVEL
- PLINTH MINIMUM 150MM ABOVE GROUND LEVEL
- UPSTAND REMOVED AFTER CONCRETE HAS CURED
- FOOTPATH LEVEL
- RADON/DPM EXTENDS 1M FROM FACE OF EPS UPSTAND
- LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKWAY

15MM INTERNAL SAND CEMENT RENDER (INCLUDES AIRTIGHT PARGE COAT)
100MM STANDARD CONCRETE BLOCK INNER LEAF
STEPPED DPC
CONCRETE FLOOR SLAB TO ENGINEERS SPECIFICATIONS AND DETAILS

RADON BARRIER/ DPM
RADON/DPM EXTENDS 1M FROM FACE OF EPS UPSTAND

KORE Foundation - Block External leaf and slab over insulation

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NOTE:
THICKNESS OF EPS UPSTAND TO SUIT THICKNESS OF EXTERNAL INSULATION.

EXTERNAL INSULATION

CEM-ROCK EXTREME/CEMENTITIOUS BOARD ON VERTICAL FACE OF EPS300 BONDED WITH PU FOAM)

FOOTPATH LEVEL

1000

ADDITIONAL RADON/DPM LAID 1M FROM FACE OF EPS AND RETURNED UP FACE OF THE CEMROCK TO FOOTPATH LEVEL.

LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKWAY

KORE Insulated Foundation System - Solid Wall & External Wall Insulation
KORE Insulated Foundation System - ICF Wall

100
125
75

NOTE:
THICKNESS OF EPS UPSTAND TO SUIT THICKNESS OF EXTERNAL INSULATION.

NOTE:
EPS GRADE, ALL REINFORCEMENT AND GROUND BUILD-UP DETAILS AND SPECIFICATIONS TO SUIT SPECIFIC SITE AND LOADING REQUIREMENTS

ICF WALL

CEM-ROCK EXTREME/CEMENTITIOUS BOARD ON VERTICAL FACE OF EPS300 BONDED WITH PU FOAM)

CONCRETE FLOOR SLAB TO ENGINEERS SPECIFICATIONS AND DETAILS

REINFORCEMENT TO SUIT SPECIFIC LOADING

RADON BARRIER

STEPPED DPC

FOOTPATH LEVEL

ADDITIONAL RADON/DPM LAID 1M FROM FACE OF EPS AND RETURNED UP FACE OF THE CEMROCK TO FOOTPATH LEVEL.

LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKWAY


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www.kore-system.com

Project: KORE Standard Details
Title: KORE Foundation - ICF Wall
Drawn: / Checked: /
Drawing N°.: ICF_07
Scale: 1:10 @ A4
Date: 03/02/2020
Rev: A

Drawn by Airpacks Ltd t/a KORE
**KORE Insulated Foundation System - Twin Framed Timber Frame Wall**

**Radon Barrier**
- Width of concrete to suit loads
- Ringbeam for outer blockwork
- Upstand removed after pouring ringbeam
- 300mm long cut-outs in bottom of EPS at specified intervals
- Radon/DPM extends 1m from face of EPS upstand
- Radon/DPM extends 1m from face of EPS upstand

**Land Drain**
- Around perimeter of building outfalling to stormwater soakway
- 30-50mm T3 blinding on minimum 200mm T2 permeable on T1 structural

**Discrepancy:**
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**KORE Foundation - Twin Framed Timber Wall**

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NOTE:
EPS PROFILE/GRADE, REINFORCEMENT AND FILL MATERIAL SPECIFICATION TO SUIT SPECIFIC LOAD/CONDITIONS INVOLVED

VENTILATED CAVITY BETWEEN TIMBER FRAME AND EXTERNAL FINISH

ANCHORING DETAIL TO DESIGNER SPECIFICATION

EXTERNAL MASONRY

140MM TIMBER FRAME

2No. H12 BARS(1T,1B)

1000

FOOTPATH LEVEL

UPSTAND REMOVED AFTER POURING RINGBEAM

300MM LONG CUT-OUTS IN BOTTOM OF EPS AT 1.2M C/C

RADON/DPM EXTENDS 1M FROM FACE OF EPS UPSTAND

LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKWAY


KORE Insulated Foundation System - Timber Frame Wall & Masonry Outer Leaf

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KORE Foundation - Timber frame wall and Masonry Outer leaf

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Insulation and Energy Saving Solutions

Project: KORE Standard Details
Title: KORE Foundation - Timber frame wall and Masonry Outer leaf

Drawn: / Checked: / Date: 03/02/2020
Drawing N°: TF_10 Rev: A
Scale: 1 : 10 @ A4

Drawn by Airpacks Ltd. t/a KORE
KORE Insulated Foundation System - Timber Frame Wall & Cladding Outer Leaf

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Project: KORE Standard Details
Title: KORE Foundation - Timber Frame with Cladding Outer Leaf
Drawn: / Checked: / Date: 03/02/2020
Drawing No.: TF_46 Rev: A
Scale: 1:10 @ A4
Drawn by Airpacks Ltd. t/a KORE

EXTERNAL FINISH
140MM TIMBER FRAME
ANCHORING DETAIL TO DESIGNER SPECIFICATION
MIN 25MM VENTILATION GAP TO BE MAINTAINED
CEM-ROCK EXTREME/ CEMENTITIOUS BOARD ON VERTICAL FACE OF EPS300 BONDED WITH PU FOAM
FOOTPATH LEVEL
NOTE:
ALL REINFORCEMENT AND FILL MATERIAL DEPTHS UNDER FOUNDATION ARE INDICATIVE ONLY. SPECIFIC DETAILS DESIGNED ON A CASE BY CASE BASIS
DPC TO OVERLAP AIRTIGHT MEMBRANE BY 100MM
REINFORCEMENT TO SUIT SPECIFIC LOADING
RADON BARRIER/ DPM
DPC TO OVERLAP AIRTIGHT MEMBRANE BY 100MM
MIN 25MM VENTILATION GAP TO BE MAINTAINED
REINFORCEMENT TO SUIT SPECIFIC LOADING
RADON BARRIER/ DPM
ADDITIONAL RADON/DPM LAID 1M FROM FACE OF EPS AND RETURNED UP FACE OF THE CEMROCK TO FOOTPATH LEVEL.
LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKWAY

KORE Insulated Foundation System - Timber Frame Wall & Cladding Outer Leaf

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1:10 @ A4

Drawn by Airpacks Ltd. t/a KORE
KORE Insulated Foundation System - Internal Loadbearing Wall

HEAVILY LOADED INTERNAL WALL

WIDTH OF THICKENING DESIGNED TO SUIT LOADING

EPS 100

EPS 300

EPS 100

EPS 100

EPS 100

EPS 100


Psi Value 0.02 W/mK

Psi Value based on 650mm of concrete thickening width and 250mm depth of underlying concrete.

Note: Psi value will vary depending on project design

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Project: KORE Standard Details
Title: KORE Foundation - Internal Loadbearing Wall
Drawn: / Checked: / Date: 03/02/2020
Drawing No.: GEN_01 Rev: A
Scale: 1:10 @ A4

Drawn by Airpacks Ltd t/a KORE
KORE Insulated Foundation System - Internal Non-Loadbearing Wall

RADON BARRIER

WIDTH OF THICKENING
DESIGNED TO SUIT LOADING

LIGHTLY LOADED
INTERNAL WALL

30-50MM T3 BLINDING ON
MINIMUM 200MM T2
PERMEABLE ON T1 STRUCTURAL
IN ACCORDANCE WITH S.R
ANNEX E FOR GRANULAR FILL

Psi Value 0.031 W/mK

Psi Value based on 400mm of concrete thickening width and 250mm depth of underlying concrete.
Note: Psi value will vary depending on project design

KORE Insulated Foundation System - Internal Non-Loadbearing Wall

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KORE Insulated Foundation System - Timber Frame Separating Wall Foundation Detail

Psi Value: 0.025 W/mK

Psi Value based on 800mm of concrete thickening width and 250mm depth of underlying concrete.

Note: Psi value will vary depending on project design.

KORE Foundation - Timber Frame Separating wall

03/02/2020

SD 001

A

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KORE Standard Details

Project: KORE Standard Details

Title: KORE Foundation - Timber Frame Separating wall

Drawn: /  Checked: /  Date: 03/02/2020

Drawing No.: SD 001  Rev: A

Scale: 1:10 @ A4  Drawn by Airpacks Ltd t/a KORE
KORE Insulated Foundation System - Light Gauge Steel Frame Separating Wall Foundation Detail

- SELECTED LIGHT GAUGE STEEL FRAME CONSTRUCTION SYSTEM FIXED TO STRUCTURAL ENGINEER'S DETAIL
- WIDTH OF THICKENING DESIGNED BY SUITABLE STRUCTURAL ENGINEER TO SUIT LOADINGS
- EPS 300
- EPS 100
- EPS 100
- EPS 100
- EPS 300
- EPS 100
- EPS 100
- EPS 300
- 30-50mm T3 BLINDING ON MINIMUM 200mm T2 PERMEABLE ON T1 STRUCTURAL IN ACCORDANCE WITH S.R. 21:2014 + A1:2016 AND ANNEX E FOR GRANULAR FILL

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KORE Insulated Foundation System - Solid Concrete Block Separating Wall Foundation Detail

psi value based on 800mm width of underlying concrete thickening.
Note: Width of thickening and Psi value will vary depending on project design.
KORE Insulated Foundation System - Cavity Block Wall Separating Wall Foundation Detail

Drainage channel to be cast between dwellings as required

SELECTED CONCRETE BLOCK CAVITY WALL TO STRUCTURAL ENGINEER'S DETAIL

DPC

EPS 100
EPS 300
EPS 100
EPS 100
EPS 300

Reinforcing steel to structural engineer's detail

Reinforcing steel to structural engineer's detail

DPC

Radon barrier

30-50mm T3 Blinding on minimum 200mm T2 permeable on T1 structural in accordance with S.R. 21/2014 + A1/2016 and Annex E for granular fill

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KORE Insulated Foundation System - Full Height Glazing Detail

The support for the door or full height glazing threshold need to be checked subject to the final door or glazing weight and setting out.

BLOCK POSITIONED AS IT WOULD BE IN TIMBER FRAME CONSTRUCTION

2No. 65mm HIGH SOAP BLOCKS

REINFORCING STEEL TO STRUCTURAL ENGINEER'S DETAIL

300mm LONG CUT-OUTS IN BOTTOM OF EPS (SPACING OF CUT OUTS WILL DEPEND ON STRUCTURAL ENGINEERS DESIGN AND DRAWINGS)

UPSTAND REMOVED AFTER CONCRETE HAS CURED

RADON TO EXTEND 1m BEYOND EDGE OF FOUNDATION

LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKAWAY (NOT TO BE DISCHARGED TO COUNCIL SURFACE WATER OR MAIN SEWER SYSTEM)

WIDTH OF THICKENING DESIGNED BY SUITABLE STRUCTURAL ENGINEER TO SUIT LOADINGS

30-50mm T3 BUNDING ON MINIMUM 200mm T2 PERMEABLE ON T1 STRUCTURAL IN ACCORDANCE WITH S.R. 21/2014 + A1:2016 AND ANNEX E FOR GRANULAR FILL

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KORE Insulated Foundation System - ESB Duct Penetration of Foundation System

WALL CHASED TO ALLOW ESB DUCTWORK TO ROUTE TO ESB METER BOX

SELECTED TIMBER FRAME CONSTRUCTION SYSTEM

BLOCK ON EDGE WITH CEMENT RENDER FINISH

REINFORCING STEEL TO STRUCTURAL ENGINEER'S DETAIL

WIDTH OF THICKENING DESIGNED BY SUITABLE STRUCTURAL ENGINEER TO SUIT LOADINGS

ESB DUCT THROUGH FOUNDATION SYSTEM

300mm LONG CUT-OUTS IN BOTTOM OF EPS (SPACING OF CUT OUTS WILL DEPEND ON STRUCTURAL ENGINEERS DESIGN AND DRAWINGS)

UPSTAND REMOVED AFTER CONCRETE HAS CURED

LAND DRAIN AROUND PERIMETER OF BUILDING OUTFALLING TO STORMWATER SOAKAWAY (NOT TO BE DISCHARGED TO COUNCIL SURFACE WATER OR MAIN SEWER SYSTEM)

30-50mm T3 BLINDING ON MINIMUM 200mm T2 PERMEABLE ON T1 STRUCTURAL IN ACCORDANCE WITH S.R. 21:2014 + A1:2016 AND ANNEX E FOR GRANULAR FILL

NOTE:
CARE TO BE TAKEN WHEN CUTTING/TRIMMING EPS INSULATION TO FORM SERVICE PENETRATIONS TO ENSURE MINIMIZATION OF GAPS. PLEASE USE SUITABLE TOOLS

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KORE Insulated Foundation System - Service Penetration to Floor Slab

Note:
CARE MUST BE TAKEN WHEN CUTTING/TRIMMING EPS INSULATION TO FORM SERVICE PEnETRATIONS TO ENSURE MINIMISATION OF GAPS. PLEASE USE SUITABLE TOOLS

Block on Edge with Cement Render Finish

Selected Timber Frame Construction System

Service Conduit to Dwelling House (e.g. Kitchen Island)

Reinforcing Steel to Structural Engineer's Detail

Radon to extend 1m beyond edge of Foundation

Upstand Removed After Concrete Has Cured

Land Drain around Perimeter of Building Outfalling to Stormwater Soakaway (Not to be Discharged to Council Surface Water or Main Sewer System)

Service Duct Through Foundation System

Reinforcing Steel to Structural Engineer's Detail

300mm Long Cut-Outs in Bottom of EPS (Spacing of Cut Outs Will Depend on Structural Engineers Design and Drawings)


Service Pipe sleeved through Concrete Slab

Radon Barrier to be penetrated with Service Duct. Radon Barrier to be sealed to Duct in Accordance with Radon Barrier Manufacturers Instructions

Width of Thickening Designed by Suitable Structural Engineer to suit Loadings

Note:
Care must be taken when cutting/trimming EPS insulation to form service penetrations to ensure minimisation of gaps. Please use suitable tools.
KORE Insulated Foundation System - Waste Pipe Detail

- EPS 300
- EPS 300
- EPS 100
- EPS 100
- EPS 100
- EPS 150
- EPS 100

Block on edge with cement render finish

Selected timber frame construction system

Waste pipe to dwelling house (e.g., Toilet Waste)

Service pipe sleeved through concrete slab

Reinforcing steel to structural engineer's detail

Radon to extend 1m beyond edge of foundation

Land drain around perimeter of building outfalling to stormwater soakaway (not to be discharged to council surface water or main sewer system)

Radon barrier

30-50mm T3 blinding on minimum 200mm T2 permeable on T1 structural in accordance with S.R. 21:2014 + A1:2016 and Annex E for granular fill

NOTE:
Care must be taken when cutting/trimming EPS insulation to form service penetrations to ensure minimisation of gaps. Please use suitable tools.

Radon to extend 1m beyond edge of foundation

Upstand removed after concrete has cured

Reinforcing steel to structural engineer's detail

Width of thickening designed by suitable structural engineer to suit loadings

KORE Insulated Foundation System - Waste Pipe Through Foundation System

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Project: KORE Standard Details
Title: KORE Foundation - Waste Pipe Through Foundation System
Drawn: AON
Checked: /
Date: 01/05/2019
SD 008
Rev: E
Scale: 1:10 @ A4

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KORE Insulated Foundation System - Oil Pipe Service Penetration (Internal Oil Boiler)

- **Block on edge with cement render finish**
- **Selected timber frame construction system**
- **Reinforcing steel to structural engineer’s detail**
- **300mm long cut-outs in bottom of EPS** (spacing of cut-outs will depend on structural engineers design and drawings)
- **Upstand removed after concrete has cured**
- **Land drain around perimeter of building outfalling to stormwater soakaway (not to be discharged to council surface water or main sewer system)**
- **Sleeve pipe encasing oil feed pipe to contain any leaks**
- **Underground plastic coated copper oil feed pipe (minimum 200mm below lowest point in EPS)**
- **Reinforcing steel to structural engineer’s detail**
- **Radon to extend 1m beyond edge of foundation**
- **30-50mm T3 blinding on minimum 200mm T2 permeable on T1**

**Note:**
- Care must be taken when cutting/trimming EPS insulation to form service penetrations to ensure minimisation of gaps. Please use suitable tools.
NOTE:
METER BOX DETAILING TO BE AGREED WITH GAS SERVICE SUPPLIER PRIOR TO PANEL MANUFACTURE

KORE Insulated Foundation System - GAS Pipe Penetration Through Foundation System

KORE Standard Details
1 : 10 @ A4

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Kilnaleck, Co. Cavan, Ireland Phone: +353 49 4374000 Fax: +353 49 4336823

Project: KORE Standard Details
Title: KORE Foundation - GAS Pipe Penetration of Foundation
Drawn: AON  Checked: / Date: 01/05/2019
Drawing No.: SD 010 Rev: E

30-50mm T3 BLINDING ON MINIMUM 200mm T2 PERMEABLE ON T1

NOTE:
CARE MUST BE TAKEN WHEN CUTTING/TRIMMING EPS INSULATION TO FORM SERVICE PENETRATIONS TO ENSURE MINIMISATION OF GAPS. PLEASE USE SUITABLE TOOLS
KORE Insulated Foundation System - Corner Post with Recessed Base Plate (If Required)

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NOTE:
EPS PROFILE/GRADE, REINFORCEMENT
AND FILL MATERIAL SPECIFICATION TO
SUIT SPECIFIC LOAD/CONDITIONS
INVOLVED

300MM LONG CUT-OUTS IN
BOTTOM OF EPS AT 1.2M C/C
2No. H12 BARS (1T, 1B)
LINEAR DRAIN
CONCRETE TO SUPPORT
WINDOW/DOOR
RAMP

DPC TO OVERLAP AIRTIGHT
MEMBRANE BY 100MM
CONCRETE FLOOR SLAB TO
ENGINEERS SPECIFICATIONS
AND DETAILS
REINFORCEMENT TO SUIT
SPECIFIC LOADING
RADON BARRIER

30-50MM T3 BLINDING ON MINIMUM 200MM T2
PERMEABLE ON T1 STRUCTURAL
AND ANNEX E FOR GRANULAR FILL
LAND DRAIN AROUND PERIMETER OF BUILDING
OUTFALLING TO STORMWATER SOAKWAY
RADON/DPM EXTENDS 1M FROM
FACE OF EPS UPSTAND

KORE Insulated Foundation System - Threshold Detail

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