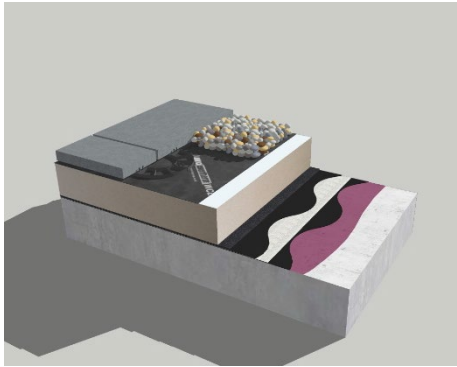











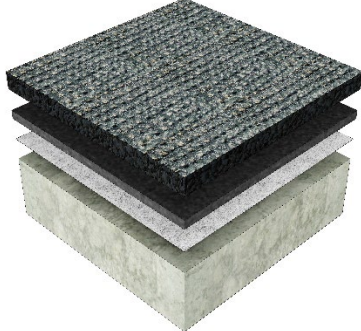
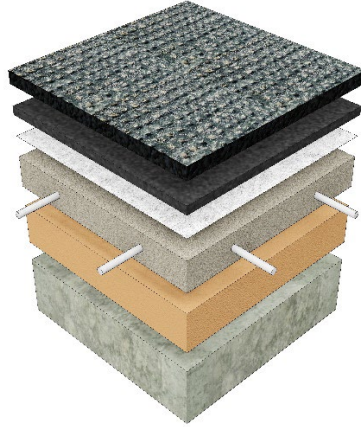








IKO PERMAPHALT ROOFING SYSTEMS

PERMAPHALT WARM ROOF	PERMAPHALT UNINSULATED WALKWAY	PERMAPHALT INVERTED ROOF
SURFACE PROTECTION	SURFACE PROTECTION	LOADING COAT
<ul style="list-style-type: none"> - Solar Reflective Paint¹ - Promenade Tiles² 	N/A	<ul style="list-style-type: none"> 20-40MM STONE BALLAST ¹ 40MM PAVING SLABS ON PROPRIETARY SUPPORT PADS ¹ GREEN ROOF BUILD UP ¹
WATERPROOFING MEMBRANE	WATERPROOFING MEMBRANE	WATER FLOW REDUCING LAYER (WFRL)
IKO PERMAPHALT 20mm (2 x 10mm coats)	IKO PERMAPHALT 25mm ¹ (second coat to be nominal 15mm thick incorporating 10-15% by weight of 3mm size coarse aggregate)	<ul style="list-style-type: none"> - enertherm XPS WCL - enertherm XPS Plus WCL - enertherm EPS WCL
SEPARATING MEMBRANE	SEPARATING MEMBRANE	ATTACHMENT OF WFRL
IKO BLACK SHEATHING FELT ³	IKO GLASS FIBRE TISSUE	Loose laid
INSULATION	INSULATION	INSULATION
<ul style="list-style-type: none"> - enertherm MG - Foamglas T3+ 	N/A	<ul style="list-style-type: none"> - ²enertherm XPS - ²enertherm XPS Plus - ²enertherm EPS
ATTACHMENT OF INSULATION		ATTACHMENT OF INSULATION
Bonded using IKOpro PU Adhesive for insulation, Sprayfast IBA, or PUMA Zero Adhesive		Loose laid
AIR & VAPOUR CONTROL LAYER	AIR & VAPOUR CONTROL LAYER	WATERPROOFING MEMBRANE
<ul style="list-style-type: none"> - IKO Ultra S-A Air and Vapour Control Layer - IKO Ultra T-O Air and Vapour Control Layer ⁴ 	N/A	IKO PERMAPHALT 20mm (2 x 10mm coats)
ATTACHMENT OF THE VAPOUR CONTROL LAYER		SEPARATING MEMBRANE
Bonded with SA backing - (IKO Ultra S-A AVCL) Bonded by torching - (IKO Ultra T-O AVCL)		IKO BLACK SHEATHING FELT
SUBSTRATE PREPARATION	SUBSTRATE PREPARATION	SUBSTRATE PREPARATION
<ul style="list-style-type: none"> - Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing. - IKOpro Bonding Agent <i>(S-A membranes only)</i> - IKOpro Sprayfast MPP - IKOpro Quick Dry Bitumen Primer <i>(T-O membranes only)</i> 	<ul style="list-style-type: none"> - Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing. 	<ul style="list-style-type: none"> - Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.
NOTES	NOTES	NOTES
<ul style="list-style-type: none"> - ¹ Solar Reflective Paint to comply with the requirements of BS8218:1998 5.17. i.e. be free from materials deleterious to mastic asphalt, such as metallic pigments, non-compatible solvents or water-based emulsions. - ² Promenade Tiles required on balconies and terraces bonded in suitable PU Adhesive in accordance with manufacturer's instructions. - ³ 2 layers of Non-bituminous Building Paper are required beneath IKO Sheathing Felt where Foamglas insulation is used. - ⁴ T-O Layers are not to be used on or near combustible substrates 	<ul style="list-style-type: none"> - ¹ This specification is not suitable if point loading is anticipated. 	<ul style="list-style-type: none"> - ¹For 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 washed rounded ballast, minimum 40mm thick concrete slabs or specified Green Roof Build-up. For other exposure conditions or tall buildings, specialist advice should be sought. - ² Insulation boards should be laid so as to break the joints over non-woven geotextile layer with nominal 100mm laps.


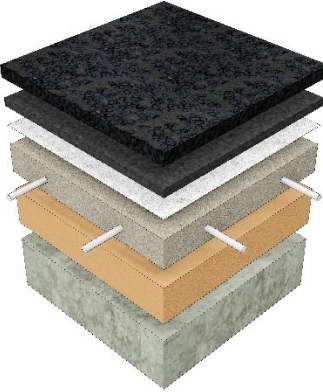








IKO PERMATEC ROOFING SYSTEMS

PERMATEC ECOWRAP INVERTED ROOF SYSTEM	PERMATEC ANTI-ROOT INVERTED GREEN ROOF SYSTEM
	
LOADING COAT 	LOADING COAT 
<p>20-40MM STONE BALLAST ¹ 40MM PAVING SLABS ON PROPRIETARY SUPPORT PADS ¹</p>	<p>GREEN ROOF BUILD UP ¹</p>
WATER FLOW REDUCING LAYER (WFRL) 	WATER FLOW REDUCING LAYER (WFRL) 
<ul style="list-style-type: none"> - enertherm XPS WCL - enertherm XPS Plus WCL - enertherm EPS WCL 	<ul style="list-style-type: none"> - enertherm XPS WCL - enertherm XPS Plus WCL - enertherm EPS WCL
ATTACHMENT OF WFRL	ATTACHMENT OF WFRL
Loose laid	Loose laid
INSULATION 	INSULATION 
<ul style="list-style-type: none"> - ¹enertherm XPS - ¹enertherm XPS Plus - ¹enertherm EPS 	<ul style="list-style-type: none"> - ¹enertherm XPS - ¹enertherm XPS Plus - ¹enertherm EPS
ATTACHMENT OF INSULATION	ATTACHMENT OF INSULATION
Loose laid	Loose laid
WATERPROOFING MEMBRANE 	WATERPROOFING MEMBRANE 
IKO PERMATEC ECOWRAP	IKO PERMATEC ANTI-ROOT
ATTACHMENT OF WATERPROOFING MEMBRANE	ATTACHMENT OF WATERPROOFING MEMBRANE
N/A	N/A
SUBSTRATE PREPARATION	SUBSTRATE PREPARATION
<ul style="list-style-type: none"> - Clean and dry. Primer to concrete substrates. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing. 	<ul style="list-style-type: none"> - Clean and dry. Primer to concrete substrates. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.
NOTES	NOTES
<ul style="list-style-type: none"> - ¹For 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 washed rounded ballast or minimum 40mm thick concrete slabs. For other exposure conditions or tall buildings, specialist advice should be sought. 	<ul style="list-style-type: none"> - ¹For 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 the specified Green Roof Build-up. For other exposure conditions or tall buildings, specialist advice should be sought.

IKO PERMAPARK CAR PARK WATERPROOFING & SURFACING SYSTEMS

UNINSULATED	INSULATED
	
WEARING COURSE 	WEARING COURSE 
¹ IKO PERMAPARK PAVING 25mm-40mm	¹ IKO PERMAPARK PAVING 30mm-40mm
WATERPROOFING MEMBRANE 	WATERPROOFING MEMBRANE 
² IKO PERMAPARK WATERPROOFING 20mm (2 x 10mm coats)	IKO PERMAPARK WATERPROOFING 20mm (2 x 10mm coats)
SEPARATING MEMBRANE	SEPARATING MEMBRANE
IKO GLASS FIBRE TISSUE	IKO GLASS FIBRE TISSUE
LYTAG CONCRETE SLAB 	LYTAG CONCRETE SLAB 
N/A	Minimum 75mm Lytag Grade 20 concrete slab with 142 steel mesh reinforcement at mid-height
INSULATION 	INSULATION 
N/A	² enertherm XPS 500
	ATTACHMENT OF INSULATION
	Loose laid
SUBSTRATE PREPARATION	SUBSTRATE PREPARATION
– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.	– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.
NOTES	NOTES
<ul style="list-style-type: none"> – ¹ 3.5 tonnes maximum gross vehicle weight – ² The Permapark Waterproofing can be reduced to 10mm single coat for non-critical areas e.g. above another parking level. 	<ul style="list-style-type: none"> – ¹ 3.5 tonnes maximum gross vehicle weight

IKO PERMAPARK HGV SERVICE DECK WATERPROOFING & SURFACING SYSTEMS

UNINSULATED	INSULATED
	
WEARING COURSE 	WEARING COURSE 
¹ IKO PERMAPARK PAVING 40mm	¹ IKO PERMAPARK PAVING 40mm
WATERPROOFING MEMBRANE 	WATERPROOFING MEMBRANE 
IKO PERMAPARK WATERPROOFING 20mm (2 x 10mm coats)	IKO PERMAPARK WATERPROOFING 20mm (2 x 10mm coats)
SEPARATING MEMBRANE	SEPARATING MEMBRANE
IKO GLASS FIBRE TISSUE	IKO GLASS FIBRE TISSUE
LYTAG CONCRETE SLAB 	LYTAG CONCRETE SLAB 
N/A	Minimum 100mm Lytag Grade 20 concrete slab with 142 steel mesh reinforcement at mid-height
INSULATION 	INSULATION 
N/A	– ² enertherm XPS 700
	ATTACHMENT OF INSULATION
	Loose laid
SUBSTRATE PREPARATION	SUBSTRATE PREPARATION
– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.	– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.
NOTES	NOTES
– ¹ 44.0 tonnes maximum gross vehicle weight and maximum individual axle loading 11.5 tonnes. 6mm, 14mm or 20mm pre-coated chippings must be rolled into the surface to improve indentation resistance	– ¹ 44.0 tonnes maximum gross vehicle weight and maximum individual axle loading 11.5 tonnes. 6mm, 14mm or 20mm pre-coated chippings must be rolled into the surface to improve indentation resistance