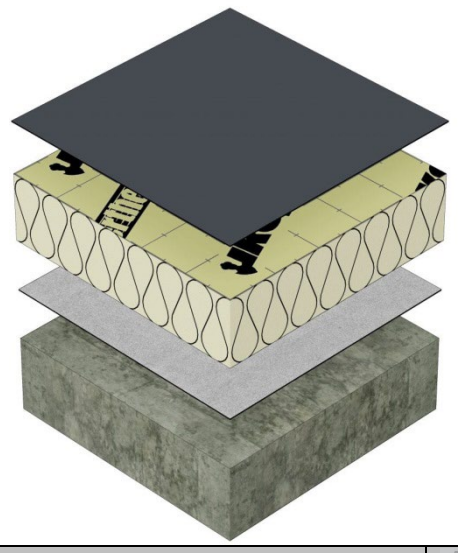
IKO ARMOURPLAN – 20 / 25 YEAR EXPOSED WARM ROOFING SYSTEMS

ARMOURPLAN FULLY ADHERED



DETAILING MEMBRANES

Detailing
- IKO ARMOURPLAN P

Complex Detailing
- IKO ARMOURPLAN D or G

WATERPROOFING MEMBRANE

- IKO ARMOURPLAN PSG

ATTACHMENT OF WATERPROOFING MEMBRANE

Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive

INSULATION

- enertherm GOLD [1]
- Enertherm MW multifix
- EPS
- PIR/EPS Hybrid

ATTACHMENT OF INSULATION

Bonded using IKOpro PU Adhesive for insulation, Sprayfast IBA, or PUMA Zero Adhesive

VAPOUR CONTROL LAYER

- IKO Ultra S-A Vapour Control Layer
- IKO Ultra T-O Vapour Control Layer [2]
- IKO Ultra H-A Detailing Underlay
- IKO Glass Universal Underlay (T-O) [2,3]

ATTACHMENT OF THE VAPOUR CONTROL LAYER

Bonded with SA backing - *(IKO Ultra S-A VCL & H-A Detail)*
Bonded by torching - *(IKO Ultra T-O VCL & Glass Universal)*

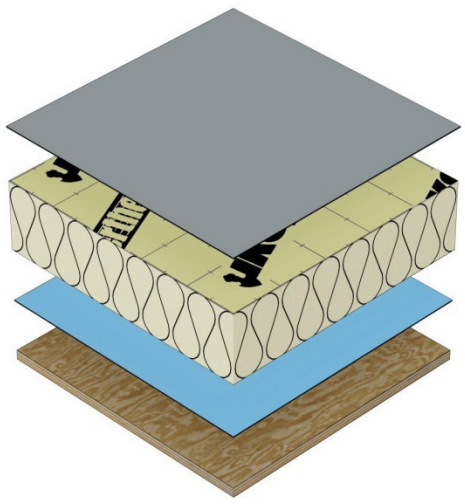
SUBSTRATE PREPARATION

- Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.
- IKOpro Bonding Agent *(S-A membranes only)*
- IKOpro Sprayfast MPP
- IKOpro Quick Dry Bitumen Primer *(T-O membranes only)*

NOTES

- [1] When bonding multiple layers of foil faced boards IKOpro PUMA Zero or 2-part PU Insulation adhesive is to be used
- [2] T-O Layers are not to be used on or near combustible substrates
- [3] Only suitable for concrete substrates

ARMOURPLAN HYBRID ADHERED



DETAILING MEMBRANES

Detailing
- IKO ARMOURPLAN P

Complex Detailing
- IKO ARMOURPLAN D or G

WATERPROOFING MEMBRANE

- IKO ARMOURPLAN PSG

ATTACHMENT OF WATERPROOFING MEMBRANE

Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive

INSULATION

- enertherm GOLD
- Enertherm MW multifix
- EPS
- PIR/EPS Hybrid

ATTACHMENT OF INSULATION

Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Insulation Tubes

VAPOUR CONTROL LAYER

- IKO Spectravap PE AVCL

ATTACHMENT OF THE VAPOUR CONTROL LAYER

Loose laid with 150mm side and end laps taped with Spectravap jointing tape

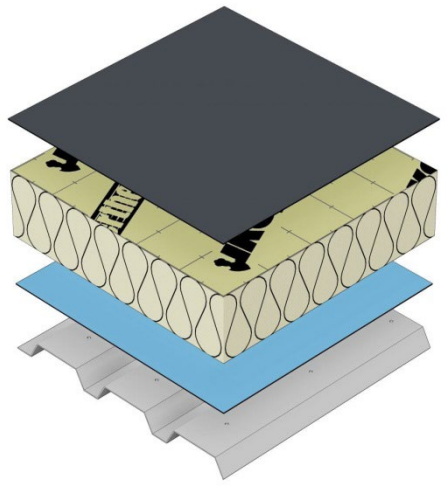
SUBSTRATE PREPARATION

- Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.

NOTES

- System not to be used in high humidity applications such as swimming pool roofs etc.

ARMOURPLAN MECHANICALLY FASTENED



DETAILING MEMBRANES

Detailing
- IKO ARMOURPLAN P

Complex Detailing
- IKO ARMOURPLAN D or G

WATERPROOFING MEMBRANE

- IKO ARMOURPLAN P

ATTACHMENT OF WATERPROOFING MEMBRANE

Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Membrane Tubes

INSULATION

- enertherm GOLD
- Enertherm MW multifix
- EPS [1]
- PIR/EPS[1] Hybrid

ATTACHMENT OF INSULATION

Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Insulation Tubes

VAPOUR CONTROL LAYER

- IKO Spectravap PE AVCL

ATTACHMENT OF THE VAPOUR CONTROL LAYER

Loose laid with 150mm side and end laps taped with Spectravap jointing tape

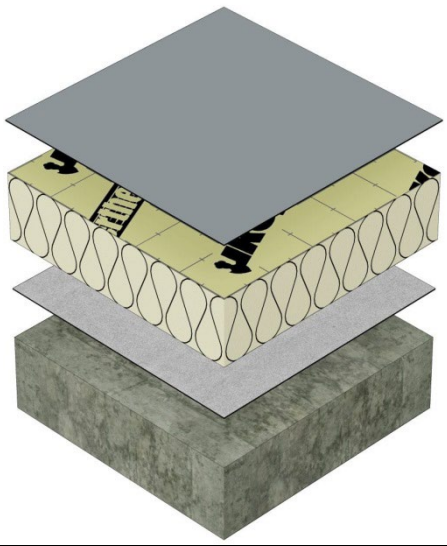
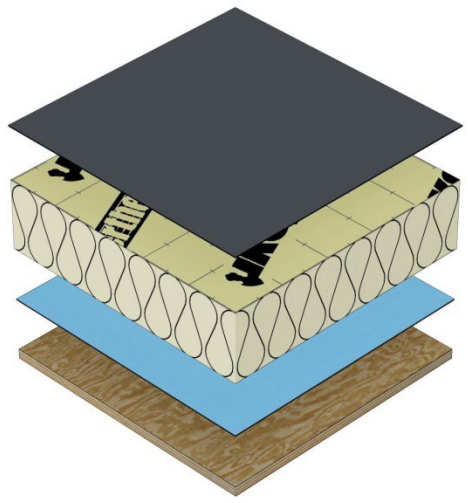
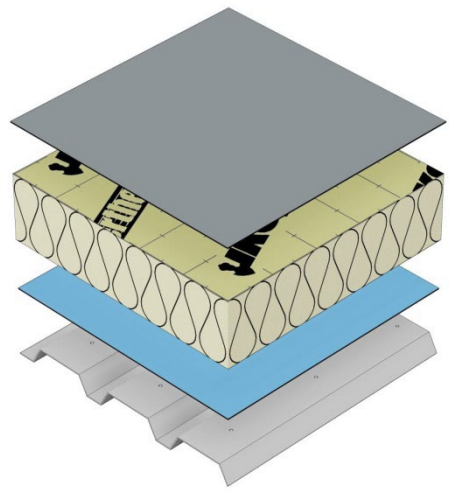
SUBSTRATE PREPARATION

- Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.

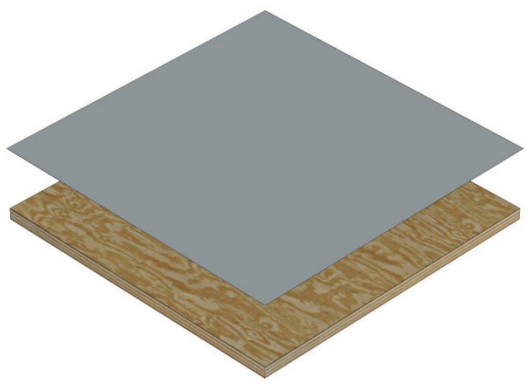
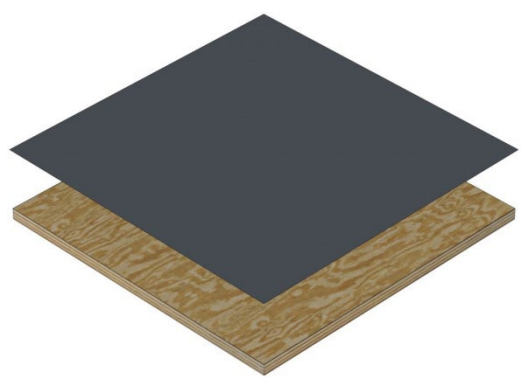
NOTES

- [1] EPS insulation is not compatible with PVC. If the EPS is directly below the PVC membrane an IKOtex 300GSM separation fleece must be installed between the EPS and PVC membrane.
- System not to be used in high humidity applications such as swimming pool roofs etc.

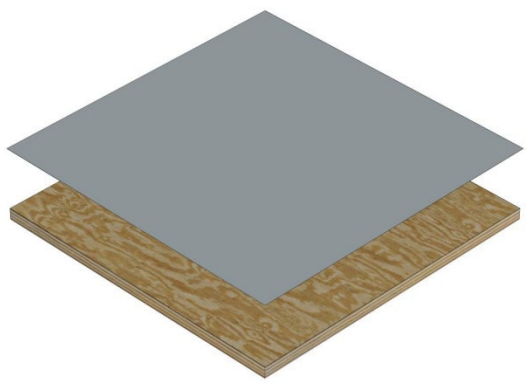
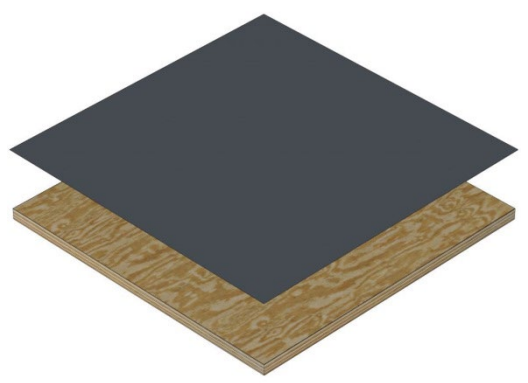
IKO ARMOURPLAN – 10 / 15 YEAR EXPOSED WARM ROOFING SYSTEMS

ARMOURPLAN FULLY ADHERED	ARMOURPLAN HYBRID ADHERED	ARMOURPLAN MECHANICALLY FASTENED
		
DETAILING MEMBRANES	**DETAILING MEMBRANES**	**DETAILING MEMBRANES**
Detailing – IKO ARMOURPLAN SM **Complex Detailing** – IKO ARMOURPLAN D or G	**Detailing** – IKO ARMOURPLAN SM **Complex Detailing** – IKO ARMOURPLAN D or G	**Detailing** – IKO ARMOURPLAN SM **Complex Detailing** – IKO ARMOURPLAN D or G
WATERPROOFING MEMBRANE	**WATERPROOFING MEMBRANE**	**WATERPROOFING MEMBRANE**
– IKO ARMOURPLAN SG	– IKO ARMOURPLAN SG	– IKO ARMOURPLAN SM
ATTACHMENT OF WATERPROOFING MEMBRANE	ATTACHMENT OF WATERPROOFING MEMBRANE	ATTACHMENT OF WATERPROOFING MEMBRANE
Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive	Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive	Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Membrane Tubes
INSULATION	**INSULATION**	**INSULATION**
– enertherm GOLD [1] – Enertherm MW multifix – EPS – PIR/EPS Hybrid	– enertherm GOLD – Enertherm MW multifix – EPS – PIR/EPS Hybrid	– enertherm GOLD – Enertherm MW multifix – EPS [1] – PIR/EPS[1] Hybrid
ATTACHMENT OF INSULATION	ATTACHMENT OF INSULATION	ATTACHMENT OF INSULATION
Bonded using IKOpro PU Adhesive for insulation, Sprayfast IBA, or PUMA Zero Adhesive	Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Insulation Tubes	Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Thermally Broken Insulation Tubes
VAPOUR CONTROL LAYER	**VAPOUR CONTROL LAYER**	**VAPOUR CONTROL LAYER**
– IKO Ultra S-A Vapour Control Layer – IKO Ultra T-O Vapour Control Layer [2] – IKO Ultra H-A Detailing Underlay – IKO Glass Universal Underlay (T-O) [2,3]	– IKO Spectravap PE AVCL	– IKO Spectravap PE AVCL
ATTACHMENT OF THE VAPOUR CONTROL LAYER	ATTACHMENT OF THE VAPOUR CONTROL LAYER	ATTACHMENT OF THE VAPOUR CONTROL LAYER
Bonded with SA backing - *(IKO Ultra S-A VCL & H-A Detail)* Bonded by torching - *(IKO Ultra T-O VCL & Glass Universal)*	Loose laid with 150mm side and end laps taped with Spectravap jointing tape	Loose laid with 150mm side and end laps taped with Spectravap jointing tape
SUBSTRATE PREPARATION	**SUBSTRATE PREPARATION**	**SUBSTRATE PREPARATION**
– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing. – IKOpro Bonding Agent *(S-A membranes only)* – IKOpro Sprayfast MPP – IKOpro Quick Dry Bitumen Primer *(T-O membranes only)*	– 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**	**NOTES**
– [1] When bonding multiple layers of foil faced boards IKOpro PUMA Zero or 2-part PU Insulation adhesive is to be used – [2] T-O Layers are not to be used on or near combustible substrates – [3] Only suitable for concrete substrates	– System not to be used in high humidity applications such as swimming pool roofs etc.	– [1] EPS insulation is not compatible with PVC. If the EPS is directly below the PVC membrane an IKOtex 300GSM separation fleece must be installed between the EPS and PVC membrane. – System not to be used in high humidity applications such as swimming pool roofs etc.

IKO ARMOURPLAN – 20 / 25 YEAR EXPOSED UNINSULATED ROOFING SYSTEMS

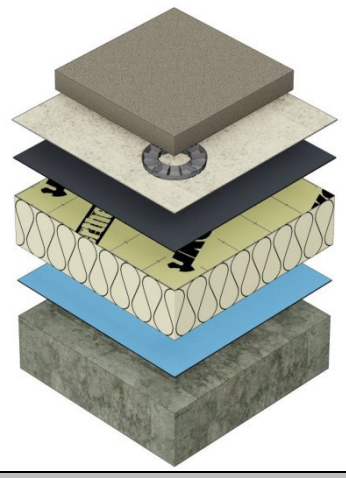
ARMOURPLAN ADHERED	ARMOURPLAN MECHANICALLY FASTENED
	
DETAILING MEMBRANES	**DETAILING MEMBRANES**
Detailing – IKO ARMOURPLAN P **Complex Detailing** – IKO ARMOURPLAN D or G	**Detailing** – IKO ARMOURPLAN P **Complex Detailing** — IKO ARMOURPLAN D or G
WATERPROOFING MEMBRANE	**WATERPROOFING MEMBRANE**
– IKO ARMOURPLAN PSG	– IKO ARMOURPLAN P
ATTACHMENT OF WATERPROOFING MEMBRANE	ATTACHMENT OF WATERPROOFING MEMBRANE
Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive	Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Membrane Washers
INSULATION	**INSULATION**
– N/A	– N/A
ATTACHMENT OF INSULATION	ATTACHMENT OF INSULATION
N/A	N/A
VAPOUR CONTROL LAYER	**VAPOUR CONTROL LAYER**
– N/A	– N/A
ATTACHMENT OF THE VAPOUR CONTROL LAYER	ATTACHMENT OF THE VAPOUR CONTROL LAYER
N/A	N/A
SUBSTRATE PREPARATION	**SUBSTRATE PREPARATION**
– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing – Metal decks must be over boarded with minimum 12mm plywood/OSB to provide continuous support	– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing – Metal decks must be over boarded with minimum 18mm plywood/OSB to provide continuous support – IKOtex 300GSM protection layer may be required on concrete substrates
NOTES	**NOTES**

IKO ARMOURPLAN – 10 / 15 YEAR EXPOSED UNINSULATED ROOFING SYSTEMS

ARMOURPLAN ADHERED	ARMOURPLAN MECHANICALLY FASTENED
	
DETAILING MEMBRANES	**DETAILING MEMBRANES**
Detailing – IKO ARMOURPLAN SM **Complex Detailing** – IKO ARMOURPLAN D or G	**Detailing** – IKO ARMOURPLAN SM **Complex Detailing** — IKO ARMOURPLAN D or G
WATERPROOFING MEMBRANE	**WATERPROOFING MEMBRANE**
– IKO ARMOURPLAN SG	– IKO ARMOURPLAN SM
ATTACHMENT OF WATERPROOFING MEMBRANE	ATTACHMENT OF WATERPROOFING MEMBRANE
Bonded using IKOpro Low Foaming PU, Sprayfast FMA, or PUMA Zero Adhesive	Mechanically fastened in accordance with IKO wind load calculation using IKOfix Fasteners and Membrane Washers
INSULATION	**INSULATION**
– N/A	– N/A
ATTACHMENT OF INSULATION	ATTACHMENT OF INSULATION
N/A	N/A
VAPOUR CONTROL LAYER	**VAPOUR CONTROL LAYER**
– N/A	– N/A
ATTACHMENT OF THE VAPOUR CONTROL LAYER	ATTACHMENT OF THE VAPOUR CONTROL LAYER
N/A	N/A
SUBSTRATE PREPARATION	**SUBSTRATE PREPARATION**
– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing – Metal decks must be over boarded with minimum 12mm plywood/OSB to provide continuous support	– Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing – Metal decks must be over boarded with minimum 18mm plywood/OSB to provide continuous support – IKOtex 300GSM protection layer may be required on concrete substrates
NOTES	**NOTES**

IKO ARMOURPLAN – WARM BALLASTED ROOFING SYSTEMS

ARMOURPLAN 10 / 15 YEAR WARM BALLASTED



DETAILING MEMBRANES

Detailing
- IKO ARMOURPLAN SM

Complex Detailing
- IKO ARMOURPLAN D or G

LOADING COAT

- 20-40MM STONE BALLAST [1]
- 40MM PAVING SLABS ON PROPRIETORY SUPPORT PADS [1]

ATTACHMENT OF WATERPROOFING MEMBRANE

Loose laid on IKOtex 300GSM fleece protection layer

WATERPROOFING MEMBRANE

- IKO ARMOURPLAN SM

ATTACHMENT OF WATERPROOFING MEMBRANE

Loose laid and secured at perimeters, penetrations and changes of angle with IKO Toothed Flatbar

INSULATION

- enertherm GOLD
- EPS
- PIR/EPS Hybrid

ATTACHMENT OF INSULATION

Loose laid

VAPOUR CONTROL LAYER

- IKO Spectravap PE AVCL

ATTACHMENT OF THE VAPOUR CONTROL LAYER

Loose laid with 150mm side and end laps taped with Spectravap jointing tape

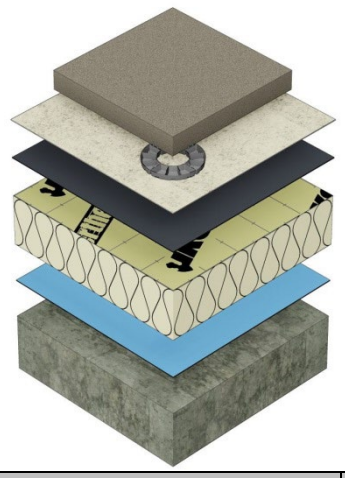
SUBSTRATE PREPARATION

- Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.

NOTES

- [1] Weight of loading coat to be in accordance with IKO wind uplift calculation (minimum 80Kg dry weight). High wind uplift situations may require an alternative system (Adhered or mechanically fastened)

ARMOURPLAN 20 / 25 YEAR WARM BALLASTED



DETAILING MEMBRANES

Detailing
- IKO ARMOURPLAN P

Complex Detailing
- IKO ARMOURPLAN D or G

LOADING COAT

20-40MM STONE BALLAST [1]
40MM PAVING SLABS ON PROPRIETORY SUPPORT PADS [1]

ATTACHMENT OF WATERPROOFING MEMBRANE

Loose laid on IKOtex 300GSM fleece protection layer

WATERPROOFING MEMBRANE

- IKO ARMOURPLAN P

ATTACHMENT OF WATERPROOFING MEMBRANE

Loose laid and secured at perimeters, penetrations and changes of angle with IKO Toothed Flatbar

INSULATION

- enertherm GOLD
- EPS
- PIR/EPS Hybrid

ATTACHMENT OF INSULATION

Loose laid

VAPOUR CONTROL LAYER

- IKO Spectravap PE AVCL

ATTACHMENT OF THE VAPOUR CONTROL LAYER

Loose laid with 150mm side and end laps taped with Spectravap jointing tape

SUBSTRATE PREPARATION

- Clean and dry. Uneven surfaces may require suitable preparation to the surface prior to the application of the waterproofing.

NOTES

- [1] Weight of loading coat to be in accordance with IKO wind uplift calculation (minimum 80Kg dry weight). High wind uplift situations may require an alternative system (Adhered or mechanically fastened)