



Pre-Fabricated, Long Spanning Roof Elements
for Fast Track Construction



Versatile, Fast-Track Roofing Solution



IKO Armourdek is a 'Zero-Waste', off-site manufactured long spanning roof element, factory finished with IKO's Single-Ply Roofing Membrane which contributes significantly to reduced programmes & construction time on site.

Ideal for use across all construction market sectors, the innovative and versatile nature of IKO Armourdek enhances the progress of a wide range of design and architecture led buildings, to meet the constantly changing needs of 21st century communities. The system also promotes 'Fabric First' as the means to achieving high performing, energy efficient buildings.

With exceptional thermal & acoustic properties and with single span capabilities up to 12m, this innovative roof panel provides a high performance, fast-track modern method of construction. With less time required working from height, the panel also contributes to a much safer working environment due to the unique nature of the fixing & installation methods.



With available panel sizes up to 12m x 4m, installation rates can be as high as 1,000m² per day. Bearing in mind the panel is supplied complete with VCL, insulation and a waterproofing membrane, this saves a considerable amount of time when compared with the installation methods of other roofing systems. With clients exerting more pressures on main contractors to deliver their buildings quicker, IKO's unique structural roofing solution combines a safe and fast-track installation which contributes significantly to savings in construction programmes. This can also impact positively from a cost perspective as there will inevitably be reduced prelims across the board.

Benefits

- Fast-track composite roofing
- Suitable for steel, concrete & timber frames
- Up to 12 metre single span
- Reduction in secondary steelwork
- Reduced time working at height
- Excellent thermal & acoustic properties
- Superb air tightness
- All timber responsibly sourced with full chain of custody
- Zero waste to landfill
- Fewer delivery vehicles



Single-Ply Waterproofing

IKO Armourdek utilises IKO Polymeric's BBA Certified Armourplan PVC & Spectraplan TPE Single-Ply roofing systems, incorporating all of the components required to deliver a complete high performance roof waterproofing solution. The membrane is factory applied prior to delivery to site, which enables the panel to be craned into place with the roofing membrane already fitted, therefore minimising the need for a separate roofing system to be installed once the roof has been constructed. This saves a significant amount of time on site and also provides health and safety benefits due to less time spent working at height.

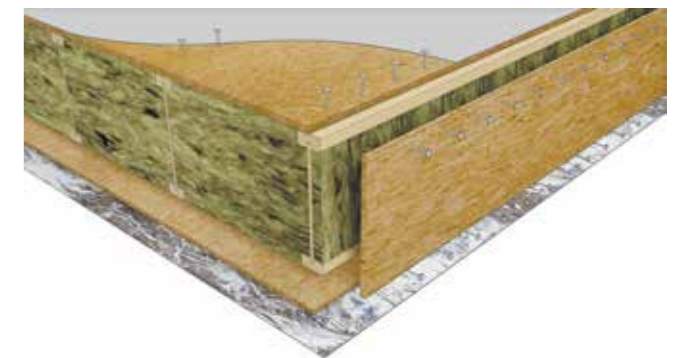
Standard Panel Construction*

- IKO Armourdek comprises of the following components:
- IKO Polymeric Single-Ply Roofing Membrane
 - Top layer 15mm Oriented Strand Board (OSB) Grade 3
 - I-Joists
 - Rock Fibre Insulation
 - VCL
 - Bottom Layer 11mm OSB

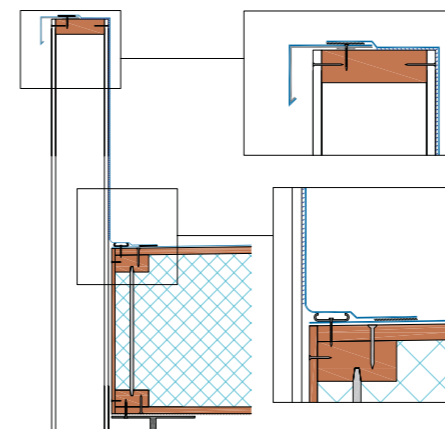
*Other internal finishes are available for the underside of the panel if an exposed finished Soffit is required. Panels available to falls.

Technical Details

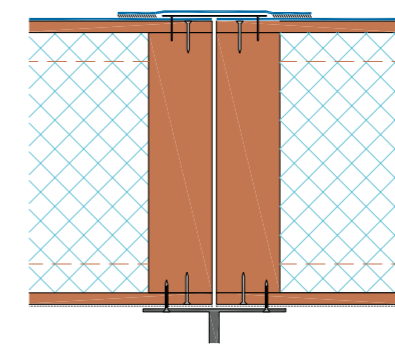
3D CAD Design and our design for manufacture ethos have been used to provide greater accuracy in structural design. With a strong focus on engineering and design for manufacture, together with our integrated supply chain partners. IKO Armourdek delivers an innovative, energy efficient and sustainable long spanning roof element which is rigorously tested to statutory BS & EN standards.



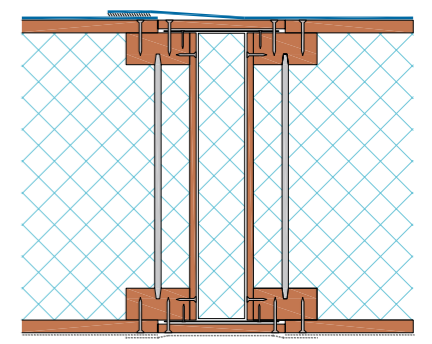
Panel Parapet Junction



Panel End Joint



Panel Side Joint



ARMOURDEK LOAD TABLE

Overall Panel Thickness (i-Joist Depth)	1.15kN/m ² (DL) + 0.6N/m ² (LL)						U-Value Wm ² /K
	Single Span				Double Span		
	i-Joist Centres (mm)				i-Joist Centres (mm)		
246 mm (220mm)	200	300	400	600	400	600	0.17
328 mm (302mm)	7.70	6.65	6.00	5.15	12.00	10.98	0.13
432 mm (406mm)	9.90	8.55	7.70	6.60	N/A	12.00	0.09
	12.00	10.70	9.65	8.30	N/A	12.00	

A Complete Service



Delivering quality is at the heart of IKO's service. The company provides a full service offer from initial consultation through specification and design to on-going monitoring and maintenance. By understanding your requirements from our perspective, we are able to deliver bespoke packages that suit the criteria of your project.

'We have the power to deliver projects on time, on budget and right first time.'

IKO Armourdek offers specifiers a full design service, so the advantages of the system can be completely understood in order to maximise the benefits from feasibility through to the building operation.

- Outline proposals and budget costs
- Structural, thermal, acoustic and air leakage assistance include advice on Part L requirements
- Full written product specifications
- CAD Drawings
- Specialist installation from IKO's network of approved installers
- On-site inspections during installation and for final warranty sign off.



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