

## IKO RUBERSHIELD PRO

### PRODUCT INFORMATION

IKO Rubershield Pro is a 140g/m<sup>2</sup> Low Resistance (LR) membrane, for use within pitched roofing.

Roll Dimensions	Product Code
1m x 50m	11201000
1.5m x 50m	11202000



### USE

The product can be used within ventilated and unventilated pitched roofing.

### FEATURES & BENEFITS

**Multi-Purpose** - BBA Certified for use within Unventilated Warm/Cold Roof Constructions.

**Breathable** - product allows the passage of harmful water vapour.

**Weather resistant** - product acts as a secondary barrier to liquid water, wind driven snow and debris.

**Compliant with BS5534:2014** - BRE tested product

**Lightweight & Flexible** - ease of transportation and use on-site.

**Developed Range** - IKO Rubershield product range contains IKO Eaves Protection Strip and IKO Rubershield Joint Tape to provide a complete roofing solution.

### PERFORMANCE & COMPOSITION

<b>Composition:</b>	3 layer polypropylene
<b>Form:</b>	Roll
<b>Colour:</b>	Black
<b>General Dimension Data</b>	
<b>Length:</b>	50m
<b>Width:</b>	1m/1.5m
<b>Mass/Weight:</b>	140g/m <sup>2</sup>
<b>Thickness:</b>	0.48mm
<b>Performance Data</b>	
<b>Reaction to fire (EN 13501-1:2007):</b>	E
<b>Resistance to water penetration (EN1928):</b>	W1
<b>Water vapour transmission (EN ISO 12572):</b>	0.04m Sd
<b>Tensile Strength (BS EN 12311-1):</b>	LD 240N/50mm <sup>-1</sup> TD 150N/50mm <sup>-1</sup>
<b>Elongation (BS EN 12311-1):</b>	LD 60% TD 60%
<b>Tear Resistance (BS EN 12310-1):</b>	LD 100N TD 80N
<b>Wind Loading:</b>	
<b>Taped Lap:</b>	
≤345mm Batten Gauge:	Zones 1-5
≤250mm Batten Gauge:	Zones 1-5
<b>Battened Lap:</b>	
≤345mm Batten Gauge:	Zone 1
≤250mm Batten Gauge:	Zones 1-5

### INDEPENDENT ACCREDITATION



Agrément Certificate  
15/5190



The product carries a Declaration of Performance Certificate and is assessed under the above Harmonised Standard.

## SPECIFICATION

All construction detailing and specification should conform to UK Building Regulations, relevant Codes of Practice and British Standards.

In particular it is recommended that reference is made to the relevant parts of:

BS 5534:2014+A1:2015 Slating and tiling for pitched roofs and vertical cladding - Code of practice  
BS5250:2011 Code of practice for control of condensation in buildings  
BS 8000-6:2013 Workmanship on building sites - Part 6: Code of practice for slating and tiling of roofs and walls

Particular attention should be made to ensure roof installations, where reasonably practicable, allow for the inclusion of an Air & Vapour Control Layer as per the recommendations of BS 5250:2011.

Where required by building warranty providers i.e. NHBC, LABC, etc. installers and those undertaking specifications should seek guidance from Technical Standards as issued by the provider in addition to the above.

If required, please consult with IKO Technical Services.

## SYSTEM COMPONENTS

IKO have a range of essential system components, specifically tailored to facilitate the use of the IKO Rubershield membranes within pitched roofing.

The following represents the system components available as part of that range:

**IKO Rubershield Joint Tape** – is a 50mm wide double-sided reinforced tape.

**IKO Eaves Protection Strip** – is available as a 330mm or 500mm wide strip of high performance polyester based roofing (BS 8747 Type 5U) designed to give long term protection at the eaves position of a pitched roof arrangement.

**IKO Flash** - is a lead free flashing system made from modified polyethylene compound, with integral aluminium mesh reinforcement and faced with a fine grey mineral. IKO Flash can be used for abutment flashings and pitched valley linings.

## SITE STORAGE

Material should be checked to ensure that it conforms to the project specification.

Material should be unloaded and handled with care to avoid damage. It should be stored on end on a firm, clean base protected from direct sunlight.

## CONSTRUCTION

### PREPARATION

Before commencing membrane installation work, the following should be checked:

- Roofing underlay packaging should be checked to ensure correct specification against issued design criteria i.e. ventilation requirements, Air & Vapour Control Layer inclusion, required Wind Zone performance, etc.
- Roof structure is structurally sound, secured and braced as specified;
- Timber noggins, lay boards, fascia boards and tilting fillets are installed where required at hips, valleys and other details to support the ends of tiling battens and underlay membrane as required;
- Roof structure is set to the required pitch;
- Pre-existing roof structures should be checked for sharp objects and protrusions which may snag, impede drape or damage the membrane i.e. nails.

### APPLICATION

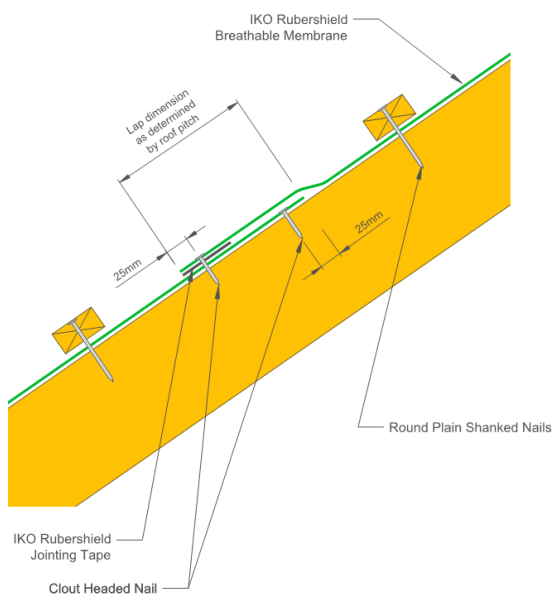
Work should commence with the installation of **IKO Eaves Protection Strip**, laid parallel to the eaves and fixed with clout nails to every rafter 25mm from the top edge. The bottom edge should be dressed and detailed over the fascia, eaves support board and tilt fillets into the externally mounted gutter position, a minimum material overhang of 50mm or to the centre line of the gutter system is desirable. Do not allow the material to sit in direct contact with the gutter as this may obstruct water flow.

Horizontal overlaps must be created to shed water out and down the slope. Roof pitch and overlaps should be set for the rafter pitch and roof construction accordingly.

Roof pitch °	Horizontal lap (mm)		Vertical lap (mm)
	Unsupported	Fully supported	
12.5 to 14	225	100	100
15 to 34	150	100	100
35+	100	75	100

With the printed side uppermost, the **IKO Rubershield** membrane should be laid to overlap the **IKO Eaves Protection Strip** by the required horizontal lap requirement, and fixed with clout nails to each rafter 25mm in from the top edge of the lower sheet and 25mm from the exposed edge of the upper sheet.

Dependant on the Wind Uplift performance required for the stated region, the joint must be restrained, incorporating **IKO Rubershield Joint Tape** as illustrated within Figure 1 or a battened lap as illustrated within Figure 2.



**Figure 1: Creating the Overlap – Taped Detail**



**Figure 2: Creating the Overlap - Battened Overlap Detail**

When being used unsupported, the roofing membrane should achieve a nominal 10mm drape in between the support positions in order to prevent contact with the underside of the tiles, thus avoiding the transfer of wind loading to the primary roof covering. The drape also serves as drainage for water within the batten space to the eaves position and into the gutter. Fully supported membranes i.e. installed over sarking boards must incorporate counter battens.

On duo pitched ridges, which do not incorporate ventilation, the underlay should be taken over the top of the ridge and lapped onto the opposing slope at a distance not less than 150mm.

Roof pitches of 12.5° to 14° should be lapped onto the opposing slope by 225mm. All overlaps should be secured as previously described.

If the ridge position is specified as ventilated, the top edge of the underlay should be set, laid and fixed down with clout nails to each rafter at dimensions set by the ridge system manufacturer. The membrane should not impede or restrict the required/specified air flow requirement.

At verges, the underlay should be laid or neatly cut onto the outer skin of the wall or onto the flying rafters in the case of overhanging verges.

Fixing of subsequent materials such as verge cloak material, verge tiles or dry verge systems should follow the guidance issued by the respective system provider.

At hip positions, the main underlay should be overlapped across the hip by 150mm. On completion of adjacent sloped areas, a separate 600mm piece of membrane should be laid longitudinally for the length of the hip, and secured to each rafter 25mm in from the edge.

At valley positions, lay boards to support valley linings should be fixed beneath the underlay in between the rafters, finishing flush with the tops of the rafters.

When using lead valleys, the underlay from adjacent slopes should be cut to the rake of the valley and lap onto the valley lining by no less than 50mm but should not go beyond the longitudinal tilt fillet.

When using proprietary valley systems such as GRP linings, the guidance of the respective system manufacturer should be sought.

On interleaved valleys, a continuous 600mm wide strip of underlay should be laid down the valley, allowing the underlay from adjacent slopes to overlap by no less than 300mm.

At abutments, roofing underlay should be dressed and cut neatly. Membranes should be turned up by a 100mm minimum behind roof flashings, and sealed to adjacent prepared structure with the **IKO Rubershield Joint Tape**.

Any penetrations through the underlay should be protected from water ingress using **IKO Rubershield Joint Tape** or detailed to include proprietary seals specified and installed in accordance with the respective manufacturer's guidelines.

More comprehensive installation details can be sourced from the product web page at [www.ikogroup.co.uk](http://www.ikogroup.co.uk)

## COMPLETION

Completed work should be protected from potential damage by subsequent site work.

The product is designed as a secondary barrier, serving the underside of the primary roof covering. It should not be considered as a primary waterproofing layer.

Good roofing practice is to install the primary waterproof covering i.e. tiling, slates as soon as practically possible and within 2 weeks of membrane installation; only then should the roof structure be considered as fully protected from the external environment.

The NFRC Guidance Document 'Installing Pitched Roofs in accordance with BS5534' states:

*BS 5534:2014+A2:2018 recommends that you should always use underlay beneath tiles and slates to provide a continuous barrier against wind uplift and as a secondary barrier against wind-driven rain, snow or dust. In fact, underlay takes on about 50% of a roof covering's total wind load.*

*The underlay should provide temporary weather protection before slates and tiles are installed. However, if there is persistent heavy rainfall or a severe freeze/thaw, underlays should not be exposed for more than a few days. Exposure to UV light can also lead to a premature failure of the underlay. If leaving the underlay exposed is unavoidable, then protect it with a tarpaulin.*

## POST COMPLETION

Building owners and occupiers should be aware of the measures required to ensure that the product functions as intended when installed as part of a complete pitched roof system. Common issues to roof spaces and roof voids in the course of a buildings life cycle often relate to condensation, and it is important that building users, owners and custodians ensure that all possible risks are minimised or eradicated by adopting good practice in building operation, follow on maintenance and future building service installations.

The following additional measures are not exhaustive, but must be considered as part of that approach to good practice:

- All penetrations into the roof space from habitable spaces must be properly sealed, and loft hatches made convection tight by, for example, using a compressible draught seal.
- All water tanks in the loft space should be covered and all pipe work lagged.
- Services passing through and/or into the roof space from inside and outside must be correctly sealed.

- Appropriate measures must be taken to limit the rate of water vapour transfer into the loft space from the dwelling below. Appropriate ventilation rates and approaches to restrict the effects of high humidity areas such as mechanical extraction from bathrooms, etc. should be provided in accordance with UK Building regulations and relevant British Standards.

## DURABILITY

When installed and conditions are maintained as per IKO literature, relevant Codes of Practice and UK Building Regulations, the product will remain unaffected by normal conditions found within the roof space and will have a life comparable to that of traditional roof tile underlay.

## DISCLAIMER

Whilst every precaution is taken to ensure that the information given in this literature is correct and up to date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded. IKO reserve the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was issued.