



the metal pages

The Metal Pages

The Metal Pages is a comprehensive guide to a range of materials which we truly believe reflects the diversity of today's metal roofing industry.



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lead



The future of truly sustainable low carbon Roofing & Façade.

Lead sheet as a material for flashing, roofing and cladding has been at the heart of UK construction for centuries. When fitted in accordance with recognised guidelines its malleability and durability make it the ideal material for the most complicated of details in the most extreme conditions. Lead enjoys an enviable record in terms of recycling and embodied energy, so much so, that it has a BRE Green Guide A+ rating. Even so, in terms of the route to market for rolled lead sheet the existence of a British Standard, BS EN 12588, means that supply and procurement has traditionally been commodity driven. However, while the Standard provides a defined measure of quality, it doesn't differentiate between the source of raw materials or proportion of recycled material used.

With the high demand for products in construction, which demonstrates high sustainability, Envirowales have taken the unprecedented step of marketing the 'Envirolead' brand as a specifiable product. It carries all of the benefits of standard rolled lead and is manufactured no differently but, critically, it has an unprecedented chain of custody and no reliance on ore extraction. This gives architects an opportunity for the first time to capitalise on the one of the most efficient forms of recycling while guaranteeing that the product chosen has the lowest possible environmental impact.

Recycling everyday Batteries

5% Polypropylene

12% Sulphuric Acid

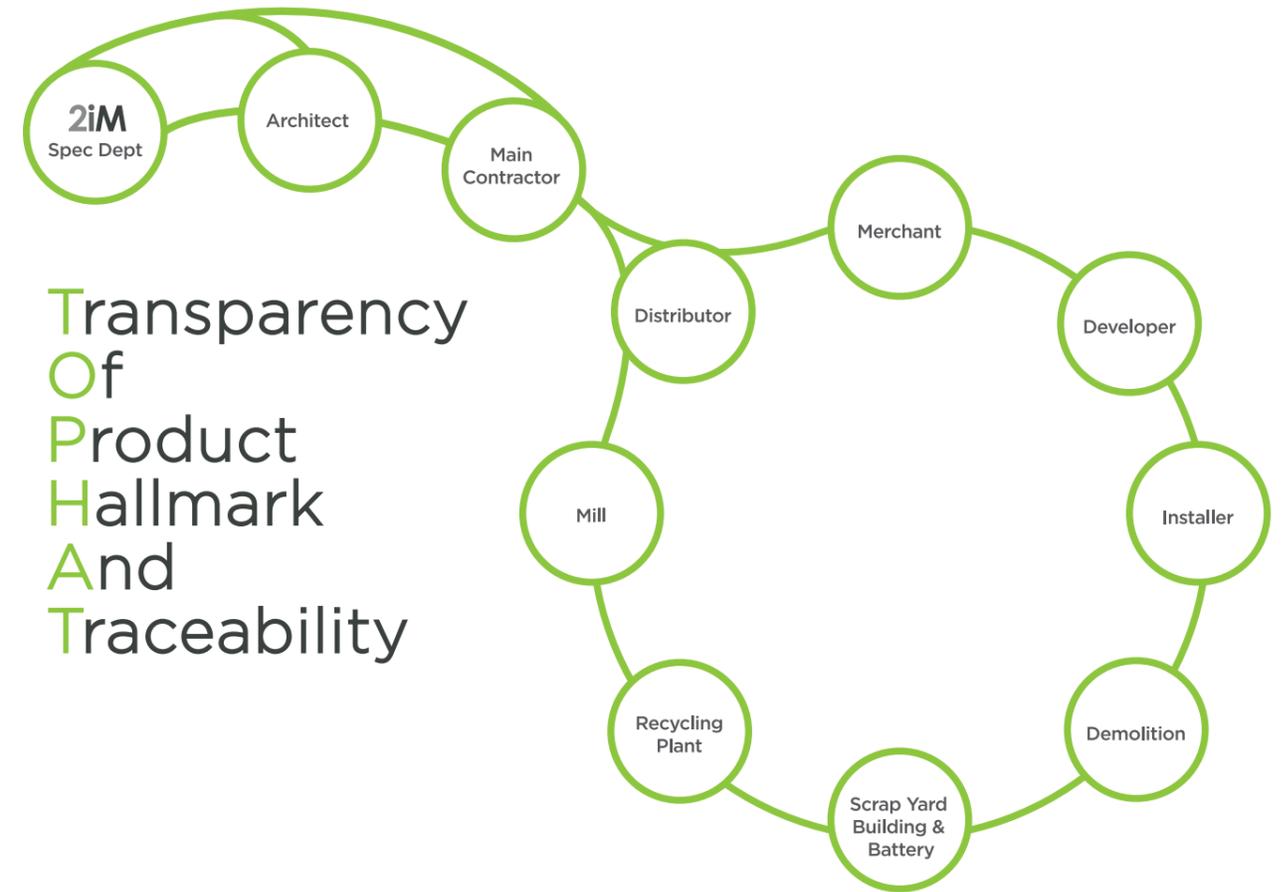
50% Desulphurised Paste

29% Metallic Lead

96% Recycled



The TOPHAT initiative. Transparency Of Product Hallmark And Traceability



Book your CPD today

RIBA Approved, Core Curriculum CPD presentation on the recycling and use of Sheet and Cast Lead. For more information contact

sales@leadesales.co.uk
01992 444100

Sand Cast Lead



Sand cast lead is produced by pouring molten lead onto a bed of moulding sand; this process has been used for hundreds of years. Skilled operatives will then use a strickle to chase the lead to the desired thickness. Once it has solidified, it is then cut to width and length then rolled. Sand cast lead is available in standard codes of 6, 7 & 8 (other codes are available) and because it is produced to the specific sizes required, there is nominal waste.

Rolled (Milled) Lead Sheet BS EN 12588:2006

Lead sheet has been produced by rolling since the mid 1700's and by the turn of this Century, rolled (milled) Lead sheet was being used in the UK as an alternative to sand cast sheet for roofing and weathering.

Rolled Lead sheet is formed by passing a slab of refined lead back and forth on a rolling mill between closing rollers, which is computer controlled to obtain an exact predetermined thickness.

The sheet is then slit to width and cut to length for final packing and distribution. BS EN 12588:2006 specifies thickness tolerances and chemical composition in order to produce a consistent microstructure.

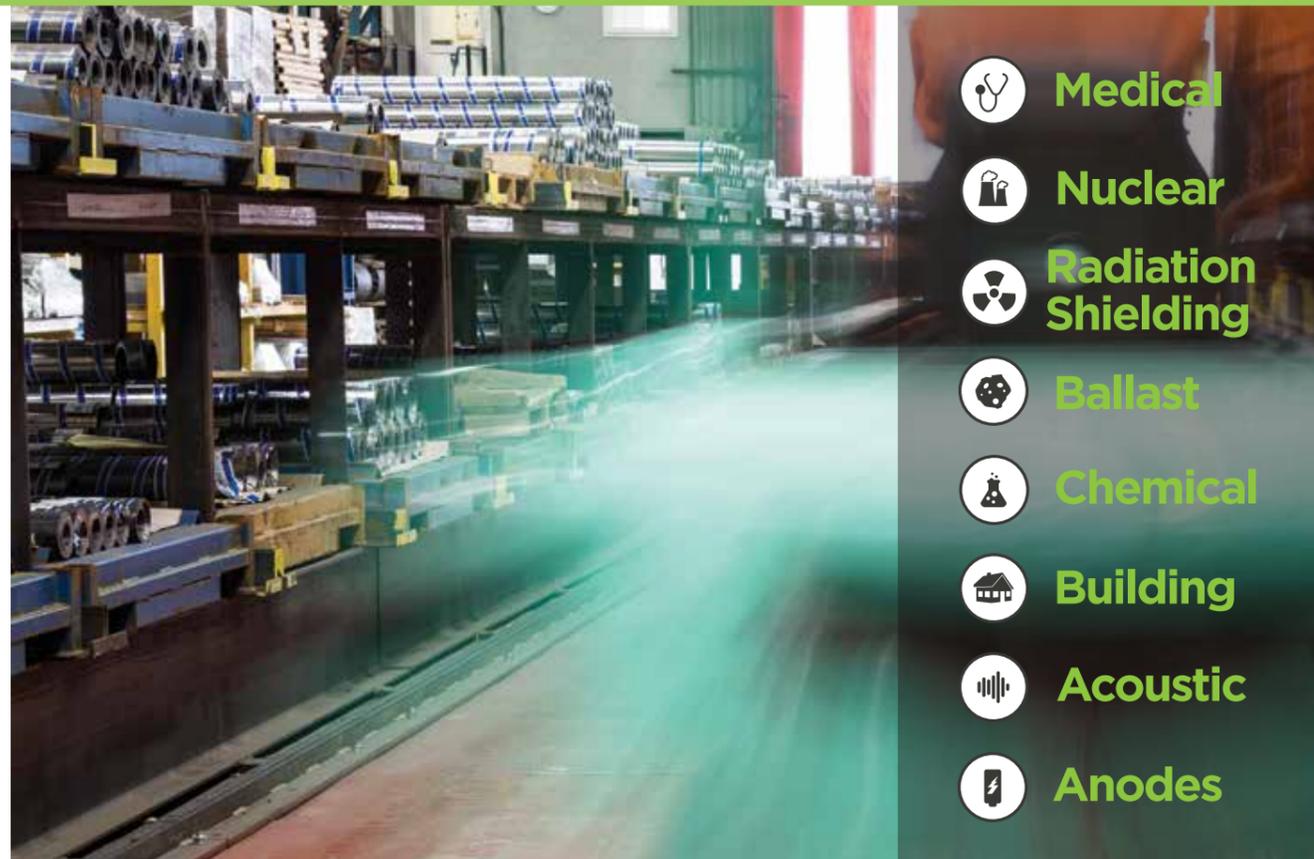
The minimal variance in thickness means that when Lead sheet is fitted to a roof, the extent of thermal movement can be accurately predicted and the correct fixing method adopted.

Such is the consistency of the process that rolled sheet will not vary in thickness by more than +/- 5% at any given point.



Further to manufacturing the leading brand of rolled lead for the building industry, within the 2iM Group we also manufacture Specialist Lead Products for industries such as Medical, Nuclear, Mining and Chemical. Furthermore we manufacture products for ballast and acoustic applications and we are capable of providing totally bespoke requirements upon detailed request.

The source of lead for our specialist products is from the same totally recycled source with the same unique chain of custody. The difference being that products such as these are always formed and finished by using either a casting, machine or extruding process. Due to the process of manufacture, the lead used cannot be called BS EN 12588. This relates to milled lead only for the roofing industry.



Lead Theoretical Weights Chart / Kg

Width (mm)	Nearest Imperial (inch)	Code 3		Code 4		Code 5		Code 6		Code 7		Code 8	
		3m	6m										
150	6	7	13	9	18	11	23	14	27	16	32	18	36
180	7	8	16	11	22	14	27	16	32	19	39	22	43
210	8	9	19	13	26	16	32	19	38	23	45	25	51
240	9	11	22	15	29	18	37	22	43	26	51	29	58
300	12	13	27	18	37	23	46	27	54	32	64	36	72
360	14	16	32	22	44	27	55	32	65	39	77	43	87
390	15	18	35	24	48	30	59	35	70	42	84	47	94
450	18	20	40	28	55	34	69	41	81	48	96	54	109
510	20	23	46	31	62	39	78	46	92	55	109	62	123
600	24	27	54	37	73	46	91	54	108	64	129	72	145
760	30	34	68	47	93	58	116	69	137	81	163	92	184
800	32	36	72	49	98	61	122	72	144	86	171	97	193
850	34	38	76	52	104	65	130	77	153	91	182	103	205
914	36	41	82	56	112	70	139	82	165	98	196	110	221
1000	39	45	90	61	122	76	152	90	180	107	214	121	242
1200	48	54	108	73	147	91	183	108	216	129	257	145	290
1600	63	72	144	98	196	122	244	144	288	171	343	193	386
Thickness (mm)		1.32		1.80		2.24		2.65		3.15		3.55	
Kg/m ²		14.97		20.41		25.40		30.05		35.72		40.26	

zinc

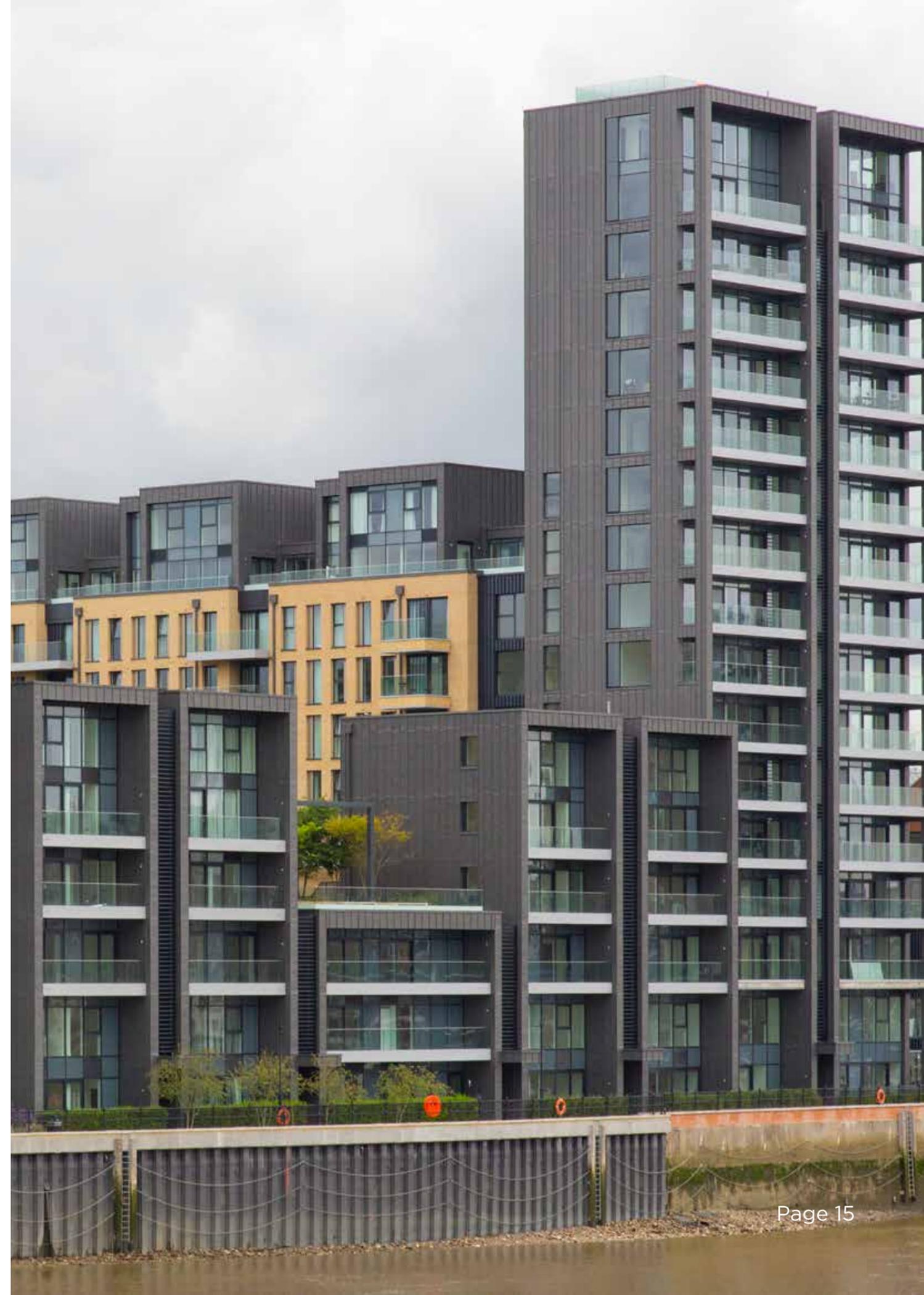




All available with *PLUS Backing & *Stratt

Width mm	Thickness mm	Weight per M2	Linear Length (M) Based on 100Kg
Coils			
400	0.7	5.04	49
410	0.7	5.04	48
430	0.7	5.04	46
500	0.7	5.04	39
525	0.7	5.04	34
570	0.7	5.04	34
600	0.7	5.04	33
670	0.7	5.04	29
750	0.7	5.04	26
1000	0.7	5.04	19
400	0.8	5.76	43
410	0.8	5.76	42
430	0.8	5.76	40
500	0.8	5.76	34
525	0.8	5.76	30
570	0.8	5.76	30
600	0.8	5.76	28
670	0.8	5.76	25
750	0.8	5.76	23
1000	0.8	5.76	17
400	1	7.20	34
410	1	7.20	33
430	1	7.20	32
500	1	7.20	27
525	1	7.20	24
570	1	7.20	24
600	1	7.20	23
670	1	7.20	20
750	1	7.20	18
1000	1	7.20	13

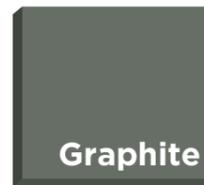
Width mm	Thickness mm	Weight (Kg) per sheet
Sheets		
1000 x 2000	0.7	10.08
1000 x 3000	0.7	15.12
1000 x 2000	0.8	11.52
1000 x 3000	0.8	17.28
1000 x 2000	1	14.40
1000 x 3000	1	21.60



All weights and linear lengths are approximate. Please note that the colors on this brochure are for reference only

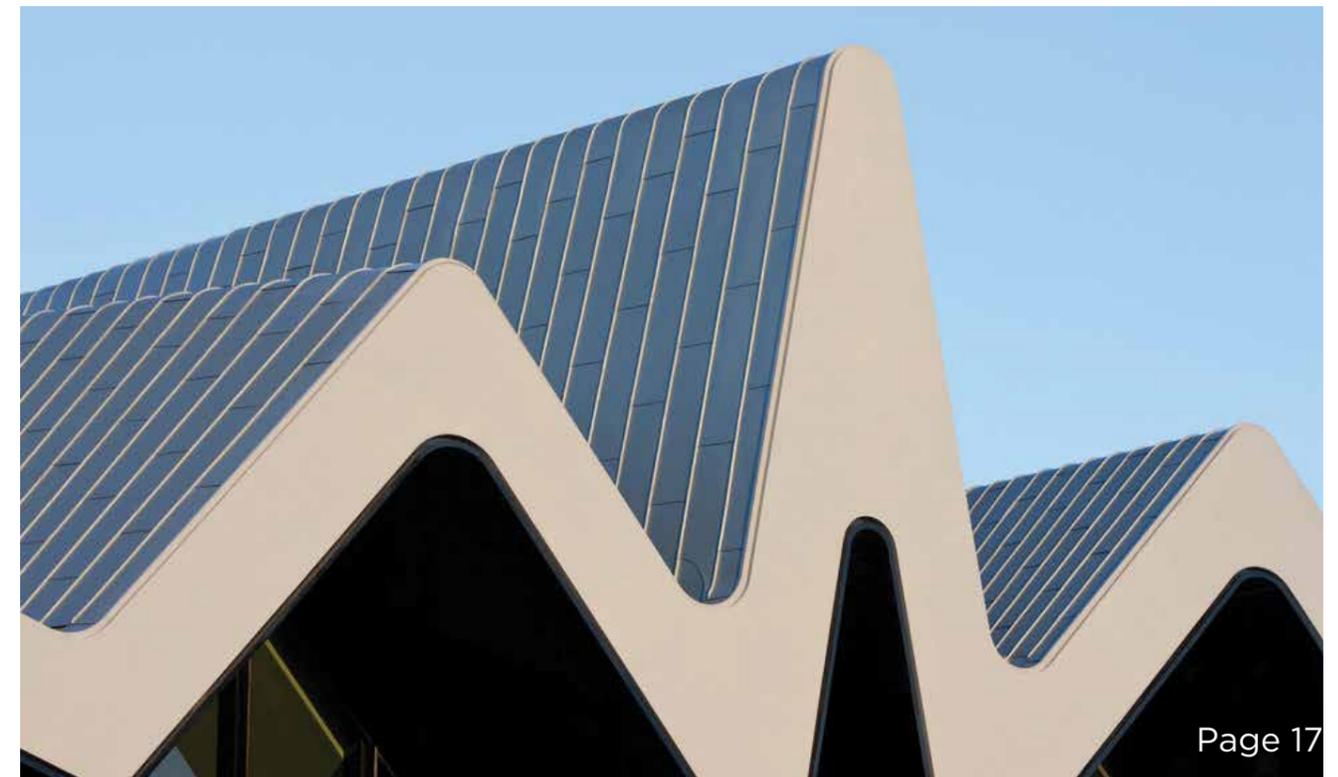
Available in Pre Patina, Pro Roofing, Interior and Colour range

Width mm	Thickness mm	Weight per M2	Linear Length (M) Based on 100Kg
Coils			
400	0.7	5.04	49
410	0.7	5.04	48
430	0.7	5.04	46
500	0.7	5.04	39
575	0.7	5.04	34
600	0.7	5.04	33
675	0.7	5.04	29
1000	0.7	5.04	20
400	0.8	5.76	43
410	0.8	5.76	42
430	0.8	5.76	40
500	0.8	5.76	34
575	0.8	5.76	30
600	0.8	5.76	28
675	0.8	5.76	26
1000	0.8	5.76	17
400	1	7.20	34
410	1	7.20	33
430	1	7.20	32
500	1	7.20	27
575	1	7.20	24
600	1	7.20	23
675	1	7.20	20
1000	1	7.20	14



Available in Pre Patina, Pro Roofing, Interior and Colour range

Width mm		Thickness mm	Weight (Kg) per sheet
Sheets			
1000 x 2000	-	0.7	10.08
1000 x 3000	-	0.7	15.12
1000 X 2000	AERO 46 Perf	-	-
1000 X 2000	AERO 63 Mesh	-	-
3000 X 250	UDS	-	-
3000 X 333	UDS	-	-
1000 x 2000	-	0.8	11.52
1000 x 3000	-	0.8	17.28
1000 X 2000	AERO 46 Perf	-	-
3000 X 250	UDS	-	-
3000 X 333	UDS	-	-
1000 x 2000	-	1	14.40
1000 x 3000	-	1	21.60
1000 X 2000	AERO 46 Perf	1	5.30
1000 X 2000	AERO 63 Mesh	1	7.78
3000 X 250	UDS	1	5.40
3000 X 333	UDS	1	7.20





copper



KME Copper - Classic

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	0.6	5.34	24
Flattened Mesh Available			
500	0.7	6.23	30
600	0.7	6.23	30
670	0.7	6.23	30
1000	0.7	6.23	20



Classic

KME Copper - Classic Coated

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
670	0.6	5.34	Subject to quantity required
1000	0.6	5.34	Subject to quantity required
Flattened Mesh Available			
670	0.7	6.23	Subject to quantity required
1000	0.7	6.23	Subject to quantity required
Flattened Mesh Available			
670	1	8.90	Subject to quantity required
1000	1	8.90	Subject to quantity required



Classic Coated



KME Copper - Brass

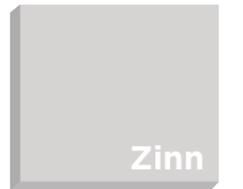
Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
670	0.7	5.95	125
1000	0.7	Subject to quantity required	
Flattened Mesh Available			
670	1	Subject to quantity required	
1000	1	Subject to quantity required	



Brass

KME Copper - Zinn

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
600	0.6	Subject to quantity required	
670	0.6	Subject to quantity required	
Flattened Mesh Available			
600	0.7	Subject to quantity required	
670	0.7	Subject to quantity required	



Zinn

KME Copper - Gold

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
600	0.7	Subject to quantity required	
670	0.7	5.63	30
1000	0.7	Subject to quantity required	
Flattened Mesh Available			
600	1	Subject to quantity required	
670	1	8.04	Subject to quantity required
1000	1	Subject to quantity required	



Gold

KME Copper - Patina, Madrid, Oslo, Hamburg and Boston Iron

Width mm	Thickness mm	Weight per M2	Linear Length Per Sheets (M)
Sheets			
600	0.6	5.34	Subject to quantity required
670	0.6	5.34	Subject to quantity required
1000	0.6	5.34	Subject to quantity required
Flattened Mesh Available			
600	0.7	6.23	Subject to quantity required
670	0.7	6.23	Subject to quantity required
1000	0.7	6.23	Subject to quantity required
Flattened Mesh Available			
600	1	8.90	Subject to quantity required
670	1	8.90	Subject to quantity required
1000	1	8.90	Subject to quantity required



Patina



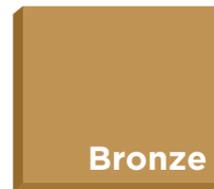
KME Copper - Oxid

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	SHEET - Subject to quantity required		
600	0.7	6.23	30
670	0.7	6.23	30
1000	SHEET - Subject to quantity required		
500	1	8.90	Subject to quantity required
600	1	8.90	Subject to quantity required
670	1	8.90	Subject to quantity required
1000	1	8.90	Subject to quantity required



KME Copper - Bronze

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
600	0.7	6.18	30
670	0.7	6.18	30
670	SHEET - Subject to quantity required		
1000	SHEET - Subject to quantity required		
600	1	8.83	Subject to quantity required
670	1	8.83	Subject to quantity required
670	SHEET - Subject to quantity required		
1000	SHEET - Subject to quantity required		



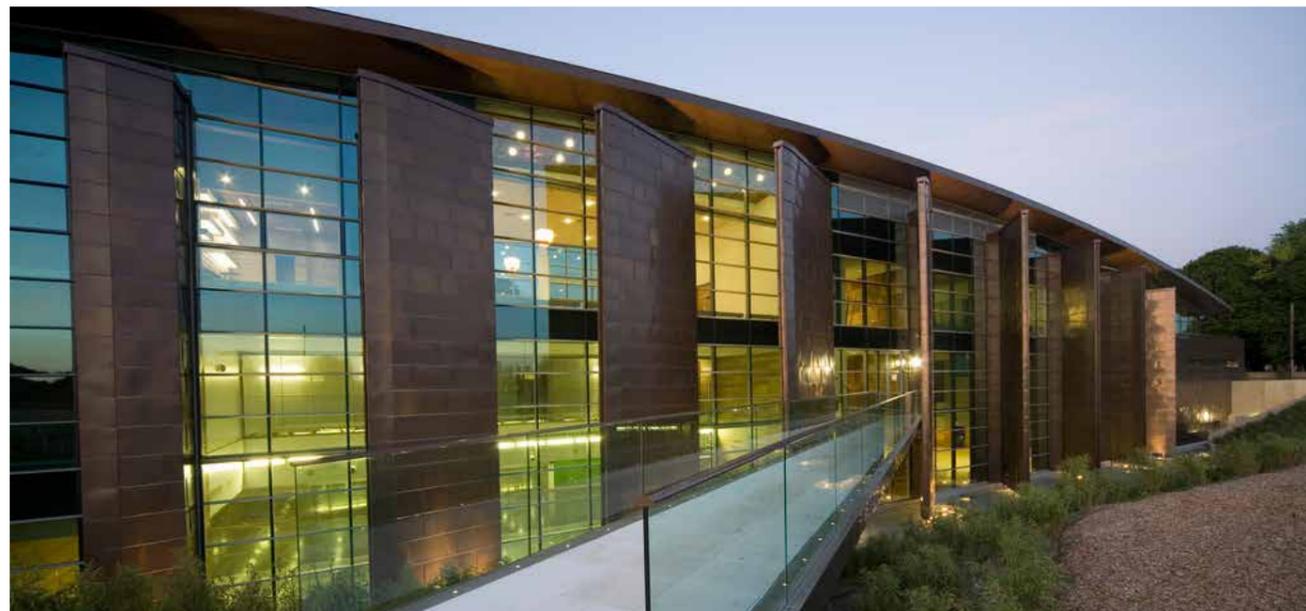
Aurubis - Nordic Standard

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	0.6	5.34	24
500	0.7	6.23	30
600	0.7	6.23	30
670	0.7	6.23	30
1000	0.7	6.23	20
500	1	8.94	30
600	1	8.94	30
670	1	8.94	30
1000	1	8.94	20



Aurubis - Nordic Brown & Brown Light

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	0.6	5.34	24
500	0.7	6.23	30
600	0.7	6.23	30
670	0.7	6.23	30
1000	0.7	6.23	20
500	1	8.94	30
600	1	8.94	30
670	1	8.94	30
1000	1	8.94	20



All weights and linear lengths are approximate. Please note that the colors on this brochure are for reference only



Aurubis - Nordic Blue

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	0.6	5.34	20 - 24
500	0.7	6.23	30
600	0.7	6.23	30
670	0.7	6.23	30
1000	0.7	6.23	20 - 24
500	1	8.94	30
600	1	8.94	30
670	1	8.94	30
1000	1	8.94	20 - 24



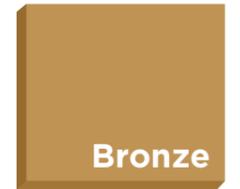
Aurubis - Nordic Brass & Weathered

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
800	0.6	5.22	20 - 24
1000	0.6	5.22	20 - 24
800	0.7	6.12	20 - 24
1000	0.7	6.12	20 - 24
800	1	8.75	20 - 24
1000	1	8.75	20 - 24



Aurubis - Nordic Bronze

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
800	0.6	5.29	20 - 24
800	0.7	6.23	20 - 24
800	1	8.86	20 - 24



Aurubis - Nordic Royal

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
800	0.6	4.86	30
1000	0.6	4.86	20 - 24
800	0.7	5.67	30
1000	0.7	5.67	20 - 24
800	1	8.12	30
1000	1	8.12	20 - 24



Aurubis - Nordic Green

Width mm	Thickness mm	Weight per M2	Linear Length Per Coil (M)
Coils			
500	0.6	5.34	30
600	0.6	5.34	30
670	0.6	5.34	30
1000	0.6	5.34	20 - 24
500	0.7	6.23	30
600	0.7	6.23	30
670	0.7	6.23	30
1000	0.7	6.23	20 - 24
500	1	8.94	30
600	1	8.94	30
670	1	8.94	30
1000	1	8.94	20 - 24





steel



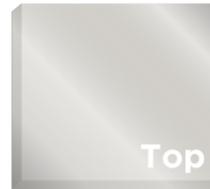
Uginox Patina K44

Width mm	Thickness mm	Weight per M2	Linear Length (M) Based on 100Kg
Coils			
580	0.5	4.00	43
1000	0.5	4.00	25
1160	0.5	4.00	21



Uginox Top 316/1.4404

Width mm	Thickness mm	Weight per M2	Linear Length (M) Based on 100Kg
Coils			
580	0.5	4.00	43
1000	0.5	4.00	25
1250	0.5	4.00	21



Greencoat® PLX - Coloured Steel, Seamline PLX and known as Greencoat® PLX

Width mm	Thickness mm	Weight per M2	Linear Length (M) Based on 100Kg
Coils			
570	0.6	4.76	36
670	0.6	4.76	31

Wide range of finishes available. Please contact sales@almhm.co.uk for a list of all colours and finishes in the Greencoat® range

**Assorted
Colours**



All weights and linear lengths are approximate. Please note that the colors on this brochure are for reference only



**coated
aluminium**



PREFALZ - Colour Aluminium Coil

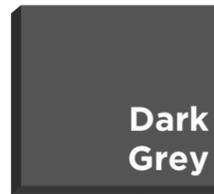
Width	Thickness	Weight	Linear Length
mm	mm	per M2	Based on 60kg
Coils			
500	0.7	1.9	63
600	0.7	1.9	49
650	0.7	1.9	49
1000	0.7	1.9	32

PREFALZ - Colour Aluminium Perforated

Width	Thickness	Weight	Linear Length (M)
mm	mm	per M2	Based on 100kg
Perforated			
1000	0.7	1.13	24kg

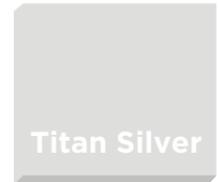
PREFALZ - Colour Aluminium Sheets

Width	Thickness	Weight
mm	mm	(Kg) per sheet
Coils		
500 x 2000	-	2.7
1000 x 2000	-	5.4
1200 x 2000	-	6.48



Zinc Coated Aluminium - Finishes

Width	Thickness	Weight	Linear Length (M)
mm	mm	per M2	Based on 100kg
Coils			
600	0.7	1.9	88
670	0.7	1.9	78
Titan Silver & Dark Falzinc - 600mm wide only			



FalzColour - Anthracite, Stone Grey and Ultra Dark

Width	Thickness	Weight	Linear Length (M)
mm	mm	per M2	Based on 100kg
Coils			
600	0.7	2	83.3
1200	0.7	2	41.6



Pre-Painted Aluminium with wide colour range

Width	Thickness	Weight	Linear Length (M)
mm	mm	per M2	Based on 100kg
Coils			
600	0.7	1.9	88
1200	0.7	1.9	176



Wide range of finishes available. Please contact sales@almhm.co.uk for a list of all colours and finishes in the Falzonal range

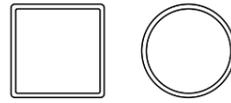


rainwater systems



VM Zinc Systems - Natural

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



Natural

VM Zinc Systems - Quartz

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



Quartz

VM Zinc Systems - Anthra

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



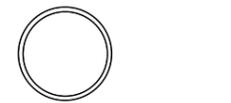
Half Round & Box Gutter Profile



Anthra

VM Zinc Systems - Pigmento

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round Pipes Profile



Half Round & Box Gutter Profile



Pigmento



Rheinzink - Bright

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



Bright

Rheinzink - Blue Grey

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



Blue Grey

Rheinzink - Graphite

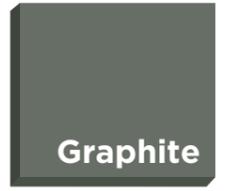
Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100



Round & Square Pipes Profile



Half Round & Box Gutter Profile

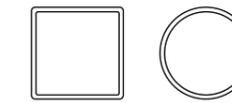


Graphite



Uginox - Patina

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



Patina

Uginox - Top

Gutter Size	Pipe Size
mm	mm
250	80
280	80
333	100
400	120



Round & Square Pipes Profile



Half Round & Box Gutter Profile



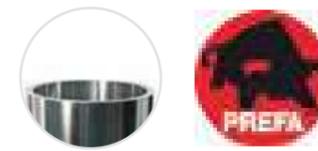
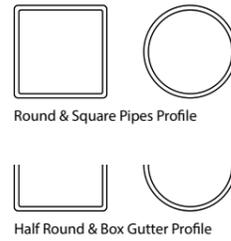
Top

All weights and linear lengths are approximate. Please note that the colors on this brochure are for reference only



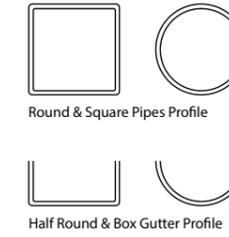
ALM HM - Natural Copper

Gutter Size mm	Pipe Size mm
250	80
280	80
333	100
400	120

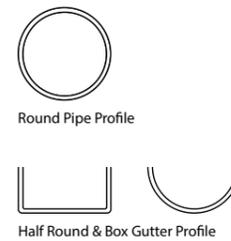


PREFA Rainwater Goods - Various Colours

Gutter Size mm	Pipe Size mm
250	80
280	80
333	100
400	120



Gutter Size mm	Pipe Size mm
250	80
280	80
333	100
400	120



Wide range of colours available. Please contact sales@almhm.co.uk for a list of all colours and finishes in the Greencoat® range





fabrications

Bespoke Fabrications

In addition to manufacturer supplied standard factory systems, ALM can offer the full range of materials in many bespoke fabrications including interlocking panels, flatlock panels and various shaped shingles in both modern and traditional styles.

Please call the sales office to discuss any requirements

sales@almhm.co.uk
01992 801927



WARM RANGE

Fixings, Membranes & Boards

WARMFAST[®] BM
Breather Membrane

WARMFAST[®]
Fixing and Vapour Barrier

WARMFAST[®] VB
Vapour Barrier

WARMDEX[®] FIX
Specialist Fixing For Warm Roofs

WARMFAST[®] AP
Adhesive Primer

WARMDEX[®] FR
Warm Roof Decking Board

WARMDEX[®] OSB
Warm Roof Decking Board

WARMFAST[®] VB

Vapour Barrier - This is a foil faced, reinforced bitumen centred cold applied self-adhesive vapour barrier. The vapour barrier self-seals around the penetrations and does tear underfoot on trapezoidal deck.

Roll measurements: 40m x 1080mm
(giving approx. 40sqm coverage per roll plus overlaps)

WARMFAST[®] BM

Breather Membrane - Warmfast BM is a three-layer underlay and sarking membrane for metal roofs. When exposed to the elements during construction and during actual use, protecting the roof structure and thermal insulation from moisture caused by condensation, rain and fine snow.

The light weight of the rolls and the stability of the material make it easy to handle on the construction site. Warmfast BM is easy to cut and quick to lay on the roof. The high strength of the material allows the construction workers to walk safely on it during the construction phase.

Warmfast BM is manufactured with a self-adhesive strip to make laying even easier.

Roll measurements: 50m x 1500mm

WARMFAST[®] AP

Adhesive Primer - A rapid drying primer made with SFS resins and non-flammable solvent. This is designed to be used prior to laying the Warmfast VB, especially at the lower end of the temperature range (+5°C)

5L tin cover approx. 40sqm



WARMDEX®

Warm Roof Decking Board

WARMDEX®OSB and **WARMDEX®FR** are the answer to your warm roof build up. Consisting of Insulated Decking Board Manufactured of Kingspan Kooltherm technology with either 22mm OSB4 boarding or 18mm FSC Certified WBP Fire Rated exterior grade plywood.

These are ideally suited for use within your warm roof build up for standing seam roofing including - Rheinzink, VMZinc, KME & Aurubis Copper, Uginox Stainless Steel and Prefa and Falzonal Aluminium plus other manufacturers.

Features & Benefits

- Various thicknesses to meet the U-Value for your specific project
- Solutions for Various Construction Methods
- Can be installed with Ply, Metal or Concrete Support Deck(May need Primer Applied)
- Approved Specialists Contractors throughout the UK and Ireland
- Technical Back-up and Advice Service
- Wind Load Calculations on request
- Durability

Standards and Approvals

Manufactured to the highest standards under a management system certified to:

- IS EN ISO 9001: 2008 (Quality Management Systems; Requirements),
- IS EN ISO 14001: 2004 (Environmental Management Systems, Requirements)
- IS OHSAS 18001: 2007 (Health & Safety Management Systems, Requirements)

Application and Warranty

Manufacturer product warranty of 10 years can be offered if installed with the following products*;

- WARMFAST®VB
- WARMFAST®BM
- WARMDEX®FIX



WARMDEX®OSB Warm Roof Decking Board

The Material make up

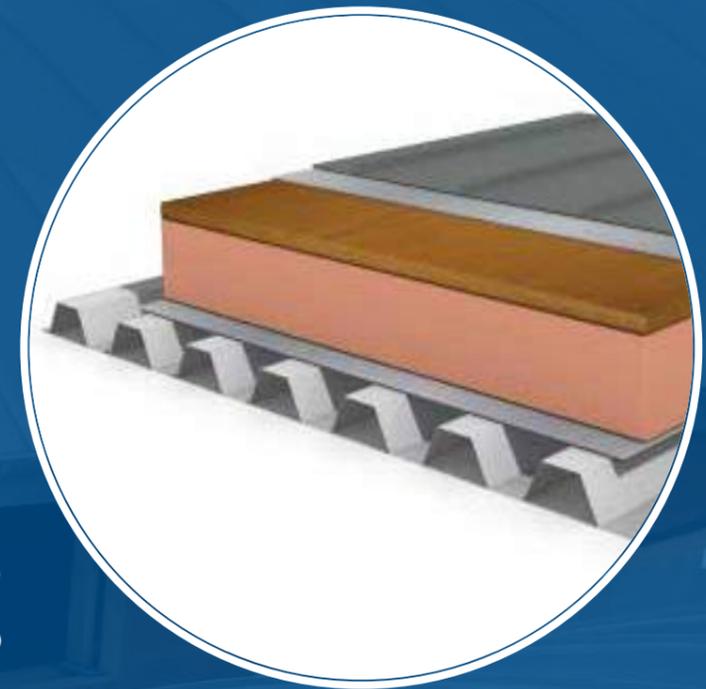
- The top Layer is 22mm OSB4
- The core is manufactured with Kingspan's high performance CFC/HCFC-free, zero ODP Resol foam technology and has a typical density of 35kg/m³ rigid Resol insulation core. Manufactured to BS EN ISO 13166
- The Bottom Layer is a low emissivity composite foil which is highly resistant to the transmission of water vapour.

Sizes and Thickness

- All boards are 2.4m x 1.2m

Thickness

82mm (60+22mm)	142mm (120+22mm)
102mm (80+22mm)	152mm (130+22mm)
112mm (90+22mm)	162mm (140+22mm)
122mm (100+22mm)	172mm (150+22mm)



WARMDEX®FR Warm Roof Decking Board

The Material make up

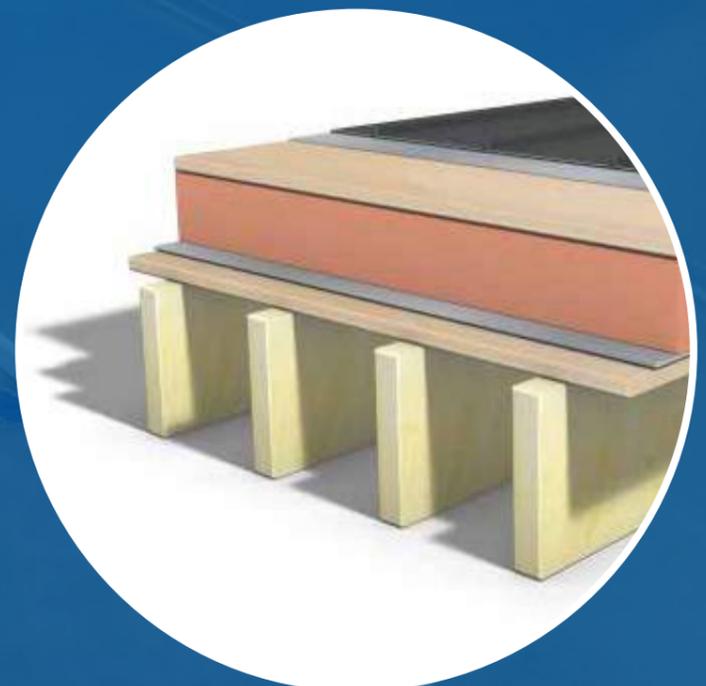
- The top Layer is 18mm FSC Certified WBP Fire Rated exterior grade plywood.
- The core is manufactured with Kingspan's high performance CFC/HCFC-free, zero ODP Resol foam technology and has a typical density of 35kg/m³ rigid Resol insulation core. Manufactured to BS EN ISO 13166
- The Bottom Layer is a low emissivity composite foil which is highly resistant to the transmission of water vapour.

Sizes and Thickness

- All boards are 2.4m x 1.2m

Thickness

88mm (60+18mm)	138mm (120+18mm)
98mm (80+18mm)	148mm (130+18mm)
108mm (90+18mm)	158mm (140+18mm)
118mm (100+18mm)	168mm (150+18mm)



WARMFAST®

Fixing and Vapour Barrier

WARMFAST® removes the requirement for ventilated timber on the cold side using fewer materials and labour.

WARMFAST® system also saves a minimum of 60mm of internal/external space.

Cold bridging which is inherent in similar systems is broken by the synthetic peg. The peg separates the clip on the outer leaf, from the screw which penetrates the inner leaf. Pegs are available in various sizes to meet insulation thicknesses from 30mm to 705mm.

WARMFAST® fixings must always be used in conjunction with WARMFAST® Vapour Barrier.

This is a foil faced, reinforced bitumen centred cold applied self adhesive vapour barrier. This self seals around penetrations and does not tear underfoot on trapezoidal deck.



WARMFAST Sliding Plates

Warmfast Sliding plates	Stainless Steel	500
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WARMFAST Fixed Plates

Warmfast Fixed Plates	Stainless Steel	250
Warmfast Fixed plates	Galvanised	250

WARMFAST PEGS Plastic

H30	Sleeve, 30 mm	500
H50	Sleeve, 50 mm	500
H70	Sleeve, 70 mm	500
H90	Sleeve, 90 mm	500
H110	Sleeve, 110 mm	500
H130	Sleeve, 130 mm	500
H160	Sleeve, 160 mm	500
H190	Sleeve, 190 mm	500
H220	Sleeve, 220 mm	250
H250	Sleeve, 250 mm	250
H280	Sleeve, 280 mm	250
H310	Sleeve, 310 mm	250
H405	Sleeve, 405 mm	100
H485	Sleeve, 485 mm	100
H565	Sleeve, 565 mm	100
H645	Sleeve, 645 mm	100
H705	Sleeve, 705 mm	100

TORX DRIVER Double ended

TORX SCREWS

LS50	Screw, 50 mm	500
LS60	Screw, 60 mm	500
LS70	Screw, 70 mm	500
LS90	Screw, 90 mm	500
LS110	Screw, 110 mm	500
LS120	Screw, 120 mm	500
LS130	Screw, 130 mm	250
LS140	Screw, 140 mm	250
LS150	Screw, 150 mm	250
LS190	Screw, 190 mm	250
LS200	Screw, 200 mm	250
LS220	Screw, 220 mm	250
LS240	Screw, 240 mm	100
LS260	Screw, 260 mm	1
LS300	Screw, 300 mm	1

ancillary products



Tooling

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The UK's Freund tool supplier
The complete hard metal installer starter kit

Items may differ in appearance from those shown



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Also available, tools from...



Patination Oil, Lead Slates, Flexislates, ARS Nails, Wood Cored Roll, Underlays, Expansion Joint, Lead Restorers, Flashpoint Sealant, Hall Clips.

To ensure that guarantees are upheld for Envirolead BS EN 12588 Rolled Lead. Approved Premium Roofing Ancillary Products range should be used.

For BBA Approved Royston Specialist Cast Rolled lead, Premium Roofing Products should also be used to ensure a quality fit with maximum life expectancy.



premiumroofing.net

LINITHERM®

Dämmsysteme



PUR/PIR rigid foam acc. to DIN EN 13165, class E, coated with aluminum film on both sides derived wood panel, 22 mm thick, coated, for mounting the metal roofing Tongue & groove pressfit joints on all sides, plus OSB panel with tongue & groove. When constructing the sub-roof and the entire roof structure, the rules, instructions and guidelines in the separate Linzmeier data sheet must be observed. Composite board made of: PUR-EN 13165-T2-DS(TH)9-CS(10\Y)100 plus 22 mm thick derived wood panel 2420 x 580 mm (= calculation measurement)

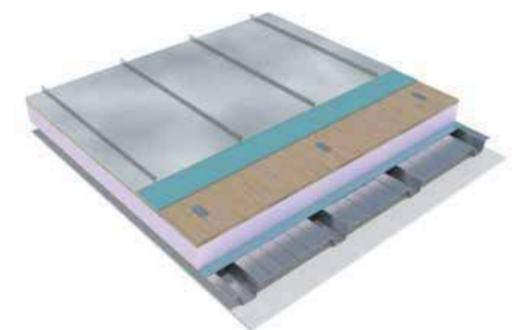
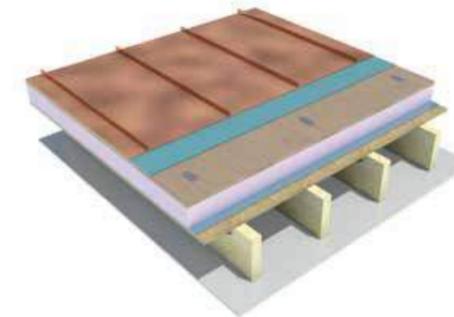
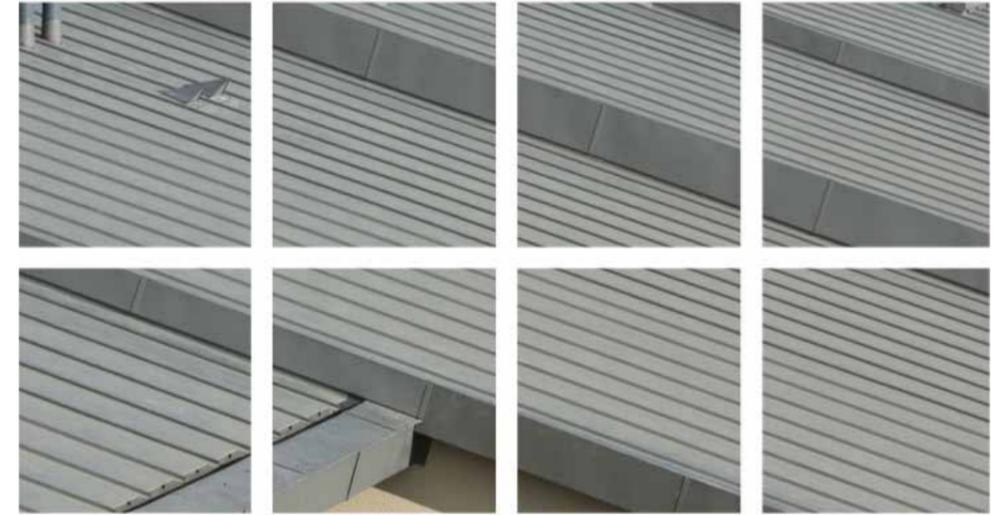


Insulation core: PUR/PIR rigid foam in accordance to DIN EN 13165, class E, with mineral fleece on both sides, insulation element slit above and below Edge connection: round about edgeless. Please note: Vapour barrier to be fitted on site. When constructing the roof substructure and the entire roof system the specialist rules must be observed. Identification according to EN: PUR-EN 13165-T2-DS(TH)9-CS(10\Y)100 Overall dimension: 2440 x 1200 mm (= calculation measurement)

THK mm Total	THK mm PUR/PIR	THK mm OSB board	Palette Qty	Qty M ²	TCL PUR/PIR	U-value** (W/M ² K)
102	80	22	21	29.5	23	0.25
122	100	22	17	23.9	23	0.21
142	120	22	15	21.1	23	0.18
162	140	22	13	18.2	23	0.15
182	160	22	11	15.4	23	0.14

THK mm	Pallet	Qty M ²	TCL PUR/PIR	U-value** (W/M ² K)
PUR/PIR	40	117.1	27	
60mm	30	87.8	29	
80mm				
examples				
60+60				0.24
60+80				0.20
80+80				0.18

Metdeck™



Metdeck168	(150 kooltherm +18mm ply)
Metdeck158	(140 kooltherm +18mm ply)
Metdeck148	(130 kooltherm +18mm ply)
Metdeck138	(120 kooltherm +18mm ply)
Metdeck118	(100 kooltherm +18mm ply)
Metdeck108	(90 kooltherm +18mm ply)
Metdeck98	(80 kooltherm +18mm ply)
Metdeck88	(70 kooltherm +18mm ply)
Metdeck68	(50 kooltherm +18mm ply)
Metdeck58	(40 kooltherm +18 mm ply)
Metdeck48	(30 kooltherm +18mm ply)

ALM HM are the main contact for various insulations and can obtain all sizes and thicknesses

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ALM HM

A POSITIVE PARTNERSHIP

Training Opportunities



If you are interested in training to become a specialist installer or perhaps enhance the skills you already have please contact our office to register your interest.

We are dedicated to the development of skilled craftspeople for the installation of both lead and hard metals.

Material finishes and design characteristics are being constantly updated, and we are able to offer our own bespoke in-house training days, in our state of the art facility, where the theory and practical aspects of these changes can be fully explained.

We work constantly and closely with all associations, leading brands and their trainers ensuring that those we work with are effectively trained and kept up to date with new developments.



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Fax 01992 461665

We would like to take this opportunity to thank all of our customers for their valued business and our supply partners for their continued support and contribution to this 5th edition of The Metal Pages. We welcome your feedback to help continually improve further editions, 01992 444100