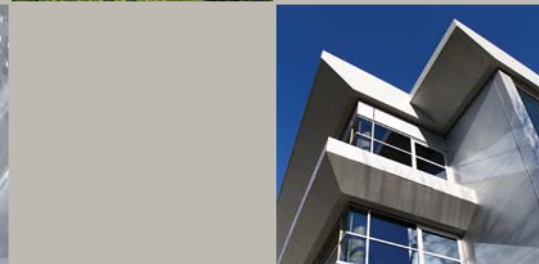
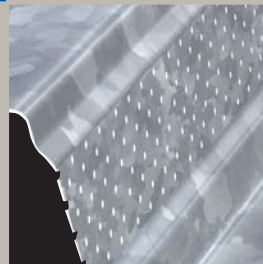
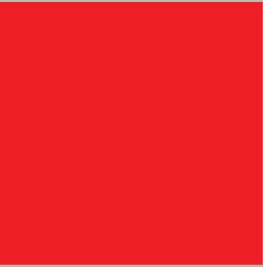
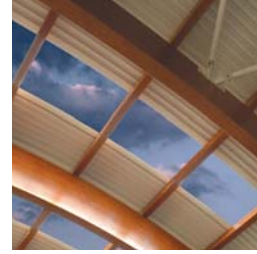


EURODECK®

Technical specifications







INTRODUCTION

Eurodeck® structural decks offer huge benefits when used as part of a twin skin metal roofing system. Decks offer structural and dimensional integrity and can help make significant savings in material and construction costs by eliminating the need for purlins and potentially reducing the amount of structural steelwork.

A range of design requirements can be achieved using the advanced building techniques available to Eurodeck® structural decking. The combination of tractable products and the potential for cost savings makes contemporary, flexible metal roof design a reality.

Founded in 1980, Euroclad is one of the UK's leading manufacturers of steel and aluminium roofing and cladding systems. Main brands, including Elite Systems, Euroseam and LINEAR Façades, have become increasingly popular with architects and contractors: the core metal profiling activities being complemented by a full fabrications and flashings capability. Synonymous with reliable service and outstanding technical support, Euroclad has strong links with leading manufacturers for specific system elements.

As part of its commitment to quality, service and the environment Euroclad operate a Quality Management System approved to BS EN ISO 9001:2000 and an Environmental Management System approved to ISO 14001:2004.


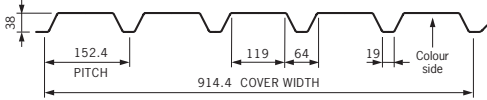
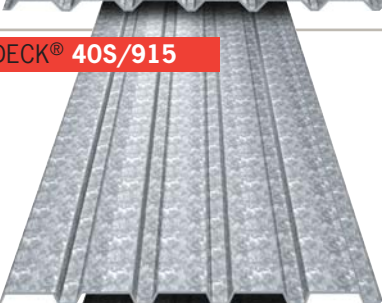
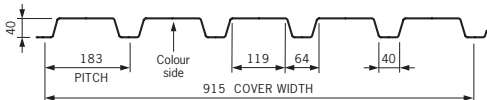
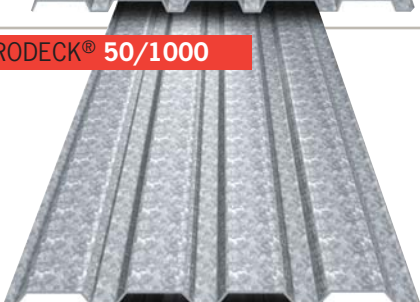
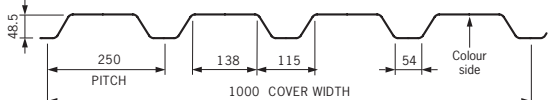
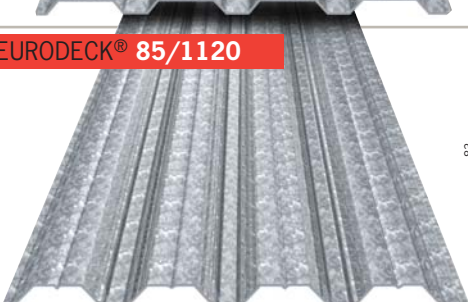
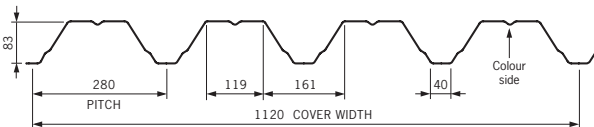
CONTENTS

Trapezoidal deck	4
38/914	
40S/915	
50/1000	
85/1120	
Structural deck	5
100/825	
106/750	
137/930	
153/840	
158/750	
200/750	
Structural tray	6
90/600	
100/600	
120/600	
130/600	
145/600	
160/600	
Product and coating selector	7



TRAPEZOIDAL DECK

Designed and specified for use with specialist single ply membrane roof covering systems, the Euroclad trapezoidal roof deck range offers the specifier the benefits of a fastrack low pitch installation combining cost, aesthetic, structural and longevity benefits.

		Gauge (mm)	Solid weight (kg/m ²)
 EURODECK® 38/914		0.70*	7.35
		0.90*	9.46
 EURODECK® 40S/915		0.75	8.20
		0.88	9.60
		1.00	10.90
		1.25	13.70
		1.50	16.40
 EURODECK® 50/1000		0.75	7.50
		0.88	8.80
		1.00	10.00
		1.25	12.50
		1.50	15.00
 EURODECK® 85/1120		0.75	8.03
		0.88	9.42
		1.00	10.70
		1.25	13.40
		1.50	16.10

MATERIAL AVAILABILITY

Unless noted otherwise, all decks shown are manufactured in galvanised steel, with a guaranteed minimum yield stress of 320N/mm² and a 275g/m² zinc coating (including both sides).

Pvdf and polyester soffit finishes are available in a wide range of standard RAL and BS colour references.

Further gauges, finishes and materials such as galvalume or aluminium can be made available to further complement this extensive range and meet any internal environment application requirements.

FIRE RATING


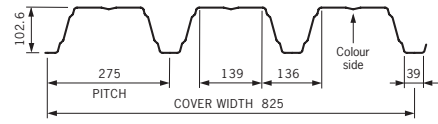
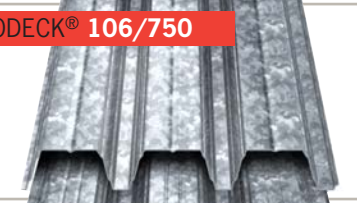
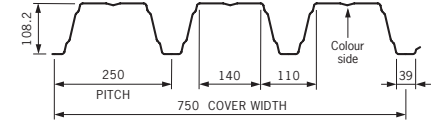
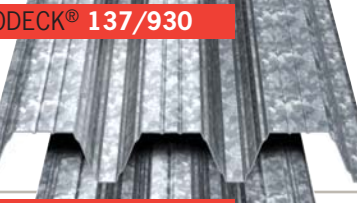
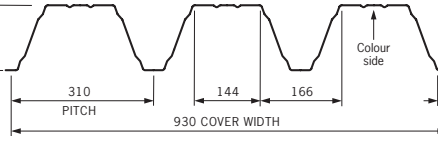
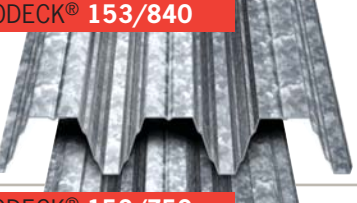
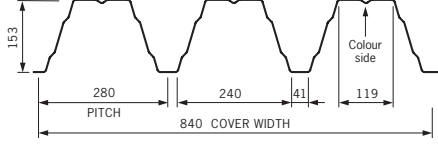

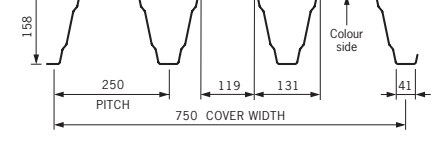

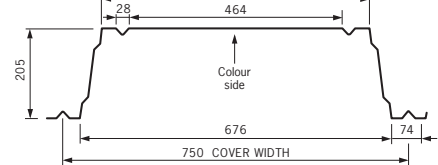
All built up roof deck sections achieve a Class 1 fire rating in accordance with BS 476: Part 7 and meet Class 0 requirements as laid out within current building regulations.



STRUCTURAL DECK

Offering the benefits of long span construction, enabling the design of lighter and more economic structures, Euroclad structural decks are specified for use within many high performance roof installations, typically supporting secret-fix/standing seam outer skin roof products.

Whilst meeting the stringent performance requirements that legislation demands, flexibility of these products allows the designer more freedom, enabling clean internal lines and a multitude of options such as convex, concave and even tapered curve elevations.

		Gauge (mm)	Solid weight (kg/m ²)	Perforated weight per (kg/m ²)
 <p>EURODECK® 100/825</p>		0.75	9.10	8.23
		0.88	10.70	9.66
		1.00	12.10	11.00
		1.25	15.20	13.70
		1.50	18.20	16.50
 <p>EURODECK® 106/750</p>		0.75	10.00	8.91
		0.88	11.70	10.46
		1.00	13.30	11.88
		1.25	16.70	14.85
		1.50	20.00	17.83
 <p>EURODECK® 137/930</p>		0.75	9.74	9.03
		0.88	11.40	10.60
		1.00	13.00	12.05
		1.25	16.20	15.00
		1.50	19.50	18.00
 <p>EURODECK® 153/840</p>		0.75	10.70	10.00
		0.88	12.60	11.74
		1.00	14.30	13.34
		1.25	17.90	16.61
		1.50	21.50	19.93
 <p>EURODECK® 158/750</p>		0.75	12.10	11.20
		0.88	14.20	13.14
		1.00	16.10	14.94
		1.25	20.10	16.60
		1.50	24.20	22.32
 <p>EURODECK® 200/750*</p>		0.75	9.60	8.64
		0.88	11.30	10.14
		1.00	12.80	11.52
		1.25	16.00	14.27
		1.50	19.20	17.17

MATERIAL AVAILABILITY

All decks shown are manufactured in galvanised steel, with a guaranteed minimum yield stress of 320N/mm² and a 275g/m² zinc coating (including both sides).

Pvdf and polyester soffit finishes are available in a wide range of standard RAL and BS colour references.

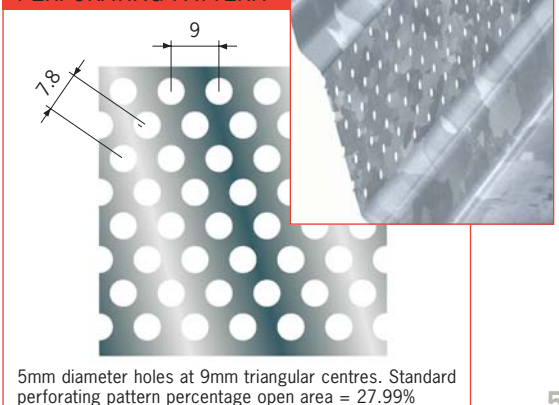
Further gauges, finishes and materials such as galvalume or aluminium can be made available to further complement this extensive range and meet any internal environment application requirements.

FIRE RATING

All built up roof deck sections achieve a Class 1 fire rating in accordance with BS 476: Part 7 and meet Class 0 requirements as laid out within current building regulations.

*Additional ancillaries are required with the 200/750 deck to ensure correct performance.


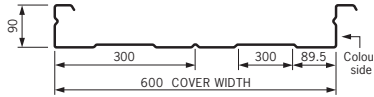










PERFORATING PATTERN



STRUCTURAL TRAY

With significant benefits over more traditional construction, Euroclad structural trays offer large span, fast track installation, providing a weatherproof envelope that allows internal trades to commence earlier, thus improving building completion times.

Designed to offer structural support to slate, tile, profiled roof and wall systems, the long span capability of these trays helps eliminate the need for purlins creating a clean internal finish and allowing full usage of the building space.

		Gauge (mm)	Solid weight (kg/m ²)	Perforated weight per (kg/m ²)
 EURODECK® ST90/600		0.75	8.70	7.50
		0.88	10.20	8.80
		1.00	11.60	10.00
		1.25	14.50	12.50
		1.50	17.40	15.00
 EURODECK® ST100/600		0.75	8.90	7.70
		0.88	10.40	9.00
		1.00	11.90	10.30
		1.25	14.80	12.80
		1.50	17.80	15.40
 EURODECK® ST120/600		0.75	9.40	8.20
		0.88	11.00	9.60
		1.00	12.50	10.90
		1.25	15.70	13.70
		1.50	18.80	16.40
 EURODECK® ST130/600		0.75	9.60	8.40
		0.88	11.30	9.90
		1.00	12.80	11.20
		1.25	16.00	14.00
		1.50	19.20	16.80
 EURODECK® ST145/600		0.75	9.80	8.60
		0.88	11.50	10.00
		1.00	13.10	11.50
		1.25	16.30	14.30
		1.50	19.60	17.20
 EURODECK® ST160/600		0.75	10.20	9.00
		0.88	12.00	10.60
		1.00	13.60	12.00
		1.25	17.00	15.00
		1.50	20.40	18.00

MATERIAL AVAILABILITY

All trays shown are manufactured in galvanised steel, with a guaranteed minimum yield stress of 320N/mm² and a 275g/m² zinc coating (including both sides).

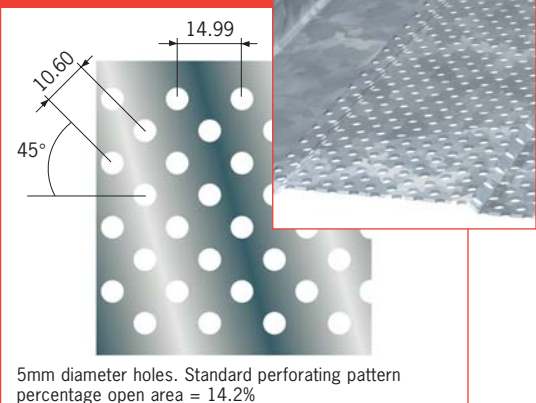
Pvdf and polyester soffit finishes are available in a wide range of standard RAL and BS colour references.

Further gauges, finishes and materials such as galvalume can be made available to further complement this extensive range and meet any internal environment application requirements.

FIRE RATING

All structural trays achieve a Class 1 fire rating in accordance with BS 476: Part 7 and meet Class 0 requirements as laid out within current building regulations.

PERFORATING PATTERN



EURODECK® PRODUCT SELECTOR - STEEL SOLID DECK

Based on Dead & Super imposed load of 1.5kN, 1.50kN line load and a deflection limit not exceeding L/150.

Options shown are most economical profile/gauge to suit typical application.

Span (mm)	Single span	Double span	Triple span
2500	ED50/1000 0.75mm	ED50/1000 0.75mm	ED50/1000 0.75mm
3000	ED85/1120 0.75mm	ED85/1120 0.75mm	ED85/1120 0.75mm
3500	ED85/1120 0.75mm	ED85/1120 0.75mm	ED85/1120 0.75mm
4000	ED85/1120 0.75mm	ED85/1120 0.75mm	ED85/1120 0.75mm
4500	ED100/825 0.75mm	ED85/1120 0.75mm	ED85/1120 0.75mm
5000	ED100/825 0.88mm	ED100/825 0.75mm	ED100/825 0.75mm
5500	ED106/750 0.88mm	ED100/825 0.88mm	ED100/825 0.88mm
6000	ED137/930 0.88mm	ED106/750 0.88mm	ED106/750 0.88mm
6500	ED137/930 1.00mm	ED137/930 0.88mm	ED137/930 0.88mm
7000	ED153/840 1.00mm	ED153/840 0.88mm	N/A – No transport
7500	ED158/750 1.00mm	ED153/840 0.88mm	N/A – No transport
8000	ED158/750 1.25mm	ED158/750 0.88mm	N/A – No transport
8500	ED158/750 1.50mm	ED153/840 1.00mm	N/A – No transport
9000	ED200 1.25mm*	ED158/750 1.00mm	N/A – No transport
9500	ED200 1.50mm*	ED158/750 1.25mm	N/A – No transport
10000	ED200 1.50mm*	ED158/750 1.50mm	N/A – No transport

* Denotes special Gerber girder method of fixing – please refer to our Technical Department.

Note: The above is for guidance only; please refer to our load span tables to confirm suitability. Normal trailer length is 13.5m. Sheet lengths over 13.5m, load will cost 50% extra to transport.

EURODECK® COATING SELECTOR

Type of coating	Class of corrosion protection	Nominal coating thickness (µm)	Maximum resistance to temperature (°C)	Rural atmosphere	Urban atmosphere	Industrial atmosphere	Maritime climate Distance from coast	
							5-15 km	< 5 km
GALVALUME® AZ 185	III	25	Up to 315	+++	+++	++	++	++ ²⁾
PLADUR® PVDF	III	25	Up to 110 ¹⁾	++	+++	+++	++	+ ²⁾
PLADUR® SP	III	25	Up to 80 ¹⁾	+	+	-	+	-
PLADUR® DU	III	12	Up to 80 ¹⁾	-	-	-	-	-

¹⁾ No constant load. ²⁾ Please enquire and give details for distance less than 2km. +++ excellently suited. ++ well suited. + suited. - not suited.

Euroclad Limited

Wentloog Corporate Park
Cardiff
CF3 2ER

Telephone +44 (0)29 2079 0722
Facsimile +44 (0)29 2079 3149
E-mail sales@euroclad.co.uk
Internet www.euroclad.com

Euroclad (Ireland) Limited

Unit 4
Newhall Industrial Estate
Naas
Co. Kildare

Telephone 00 353 (0) 45 435 470
Facsimile 00 353 (0) 45 435 472
Internet www.euroclad.ie

