



BLACKBURNS
METALS LIMITED

Sign & Display Product Guide

Clips Aluminium Bollhoff Blanks Aluminium Bollhoff Circles Aluminium Bollhoff Triangles
Stainless Bollhoff Blanks Aluminium Clips Stainless Bollhoff Circles Stainless Bollhoff Triangles
Stainless Sheet Composites Tray and Tray Manufacture Stainless Steel Sheet Mirror Polished
Anodised Sheet Sheet Satin Polished Pattern Sheet - 5 Bar Glass Reinforced Plastic Plastics
Aluminium Bollhoff Blanks Anodised Sheet Aluminium Sign Rail Stainless Sheet Alochromed
& Painted Sheet Steel Posts Stainless Bollhoff Circles Plastics Clips Aluminium Circles
Aluminium Triangles Clips Aluminium Rails Aluminium Tee Sections Aluminium Round Posts
Aluminium Posts Aluminium Square Posts
Sections Stainless Steel Banding Systems
Composite Sheet Composite Trays Plastisol Coated Steel Sheeting Anodised Sheet Stainless
Steel Sheet Alochromed & Painted Sheet Aluminium Bollhoff Blanks Aluminium Bollhoff
Circles Aluminium Bollhoff Triangles Stainless Bollhoff Blanks Aluminium Stainless Bollhoff
Triangles Stainless Bollhoff Circles Composites Tray and Tray Manufacture Stainless Steel
Plastics Stainless Sheet Sheet Mirror Polished Anodised Sheet Sheet Satin Polished Pattern
Sheet - 5 Bar Aluminium Triangles Stainless Sheet Aluminium Sign Rail Aluminium Bollhoff
Blanks Glass Reinforced Plastic Stainless Bollhoff Circles Aluminium Alochromed & Painted
Sheet Anodised Sheet Aluminium Posts Aluminium Triangles Stainless Steel Aluminium Rails
Aluminium Tee Sections Aluminium Round Posts Aluminium Square Posts Steel Square Posts
Clip Sections Stainless Steel Banding Systems Buckle Systems Aluminium Offset Brackets
Composite Sheet Composite Trays Plastic Coated Steel Sheeting Anodised Sheet Stainless
Steel Sheet Stainless Steel Stainless Sheet Sheet Mirror Polished Anodised Sheet Sheet Satin
Polished Pattern Sheet - 5 Bar Aluminium Triangles Stainless Sheet Aluminium Triangles



BLACKBURNS
METALS LIMITED

Aluminium, Stainless Steel and non-ferrous alloys...

Blackburns is one of Europe's leading suppliers of Aluminium, Stainless Steel and other semi finished non-ferrous products. Its name is synonymous with high quality and service levels throughout both industry and the manufacturing sectors with a reputation for innovative products and supply partnerships.

With a strategically placed network of Sales and Service Centres, Blackburns provides immediate stock availability and local service to a wide range of industry and market sectors, with what is probably the most comprehensive product range and processing facilities in the UK. Local stock is further enhanced by a central facility which carries over 10,000 tonnes of material in over 200,000 square feet, all of which is available on a daily basis to each of the Service Centres throughout the UK.

Focused on customer requirements, a significant investment has been made in processing and fabricating facilities, allowing Blackburns to supply material closer to final form, providing the option of bespoke sizes and finishes previously unavailable, creating a real opportunity of a 'one stop shop'.

Blackburns remains responsive to the constant fluctuation in demand faced by its customers, with the ability to supply most parts of the UK within 24 hours and globally through its Export Department, Blackburns is committed to building long term cost saving relationships with its customers.

Visit us online at www.blackburnsmetals.com...

Contents

ALOCHROMED & PAINTED SHEET	2
ALUMINIUM CIRCLES, TRIANGLES, OCTAGONS & BLANKS (+ BOLLHOFF RAILS)	3
ALUMINIUM RAILS	4
ALUMINIUM TEE SECTIONS	5
ALUMINIUM EXTRUSIONS - WALLBOARD SECTIONS	6
ALUMINIUM EXTRUSIONS - MISCELLANEOUS SECTIONS	8
ALUMINIUM ROUND POSTS & SQUARE POSTS	10
STEEL ROUND POSTS & SQUARE POSTS	11
BUCKLE SYSTEMS	12
STAINLESS STEEL BANDING SYSTEMS	13
STAINLESS STEEL CLIP SECTIONS	14
TWO PIECE UNI-CLAMP & COMPLETE OFFSET BRACKET ASSEMBLIES	15
BCP COMPOSITE SHEET	16
BCP HOARDING PANEL	18
BCP COMPOSITE TRAY	18
BCP TRAFFIC	19
STAINLESS STEEL SHEET	19
GRP CIRCLES, TRIANGLES & SHEET	20
PATTERNED SHEET	23
PLASTISOL COATED STEEL CIRCLES, TRIANGLES, SHEET & BLANKS (+ BOLLHOFF RAILS) ..	24
RAL COLOUR GUIDE	26

Blackburns Sign & Display Materials...

Blackburns Sign & Display Product Guide is intended to be an aid to the buyer and focuses on component parts for the commercial and traffic sectors. With a comprehensive range of sign components together with 'kit' and 'semi fabrication' options, sign makers will be able to choose between buying individual components such as aluminium painted sheet, rails or posts as separate items, or in kit form with bespoke fabrication to the customers finished requirements.

...or contact your local Blackburns today

(see back cover for location and contact details)

Alochromed & Painted Sheet



Processing facilities are available to cut to customised finished sizes.

All sizes can be supplied with fixing rails attached using the blind riveting system.

Sheets are available in other colours and sizes on request.

FINISH	SIZE
Grey one side	6' x 3' x 11swg
	6' x 4' x 11swg
	8' x 4' x 11swg
	10' x 4' x 11swg
	10' x 5' x 11swg
	2438mm x 600mm x 11swg
	3048mm x 600mm x 11swg
	2100mm x 1525mm x 11swg
	2500mm x 1250mm x 1.5mm
2438mm x 1219mm x 2.5mm	
Grey two sides	6' x 3' x 11swg
	8' x 4' x 11swg
	10' x 5' x 11swg
Grey back with white front	6' x 3' x 11swg
	6' x 4' x 11swg
	8' x 4' x 11swg
	2100mm x 1525mm x 11swg
	2438mm x 1219mm x 2.5mm
10' x 5' x 11swg	
Grey back with black front	8' x 4' x 11swg
Black one side	6' x 3' x 11swg
	6' x 4' x 11swg
	8' x 4' x 11swg
	10' x 5' x 11swg
Alochromed only (all sizes can be Alochromed)	8' x 4' x 11swg
	10' x 5' x 11swg
White one side	2500mm x 1250mm x 1.5mm
	2500mm x 1250mm x 0.7mm
	2500mm x 1250mm x 1.0mm
	2500mm x 1250mm x 1.5mm
	2500mm x 1250mm x 1.8mm
	2500mm x 1250mm x 2.0mm
	3000mm x 1500mm x 1.5mm
	8' x 4' x 11swg
Silver anodised sheet	2500mm x 1250mm x 1mm
	2500mm x 1250mm x 1.5mm
	2500mm x 1250mm x 2mm
	2500mm x 1250mm x 3mm

SIZE	PAINTED GREY (BS 381C/693)	PAINTED BLACK (RAL 9005)	PAINTED GREY (WITH RAIL ATTACHED) by Bollhoff System	PAINTED BLACK
300mm	■	■	■	■
450mm	■	■	■	■
600mm	■	■	■	■
750mm	■	■	■	■
900mm	■	■	■	■
1200mm	■	■	■	■
1500mm	■		■	

Other sizes available upon request

SIZE	PAINTED GREY (BS 381C/693)	PAINTED BLACK (RAL 9005)	PAINTED GREY (WITH RAIL ATTACHED) by Bollhoff System	PAINTED BLACK
600mm	■	■	■	■
750mm	■	■	■	■
900mm	■	■	■	■
1200mm	■	■	■	■
1500mm	■		■	

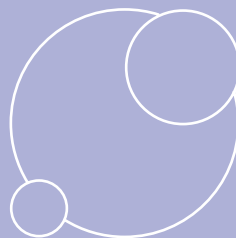
Other sizes available upon request

SIZE	PAINTED GREY (BS 381C/693)	PAINTED BLACK (RAL 9005)	PAINTED GREY (WITH RAIL ATTACHED) by Bollhoff System	PAINTED BLACK
600mm	■	■	■	■
750mm	■	■	■	■

Other sizes available upon request

All Aluminium blanks can be supplied with Sign Channels attached using a blind rivet system.

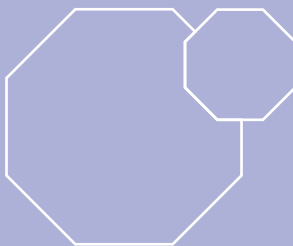
Aluminium Circles



Aluminium Triangles



Aluminium Octagons



TO EN12881/1
REGULATIONS

Aluminium Rails



SMALL RAIL



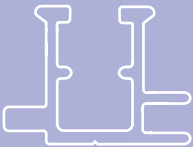
SMALL FLANGED RAIL



MEDIUM RAIL



LARGE BOLLHOFF RAIL



MEDIUM INTERLOCK



LARGE INTERLOCK

LENGTH	PAINTED GREY (BS 381C/693)	PAINTED BLACK (RAL 9005)	PAINTED WHITE (RAL 9016)	MILL FINISH
3000mm	■	■	■	■
5000mm	■	■	■	■
5000mm	■	■		■
3000mm	■	■		■
5000mm	■	■		■
6000mm	■	■	■	■
6000mm	■	■		
5000mm	■	■		
6000mm	■	■		
6000mm	■	■		

LENGTH	PAINTED GREY (BS 381C/693)	PAINTED BLACK (RAL 9005)	PAINTED WHITE (RAL 9016)	MILL FINISH
3000mm	■	■	■	■
5000mm	■	■	■	■
3000mm	■	■	■	■
5000mm	■	■	■	■

HOLLOW TEE (Expands Large and Large Interlock Aluminium Rails)

Allows the length of Large, and Large Interlock Aluminium Rails (page 4) to be increased by connecting two pieces of sign channel.

The Hollow Tee component is inserted inside the Aluminium Rail and another piece attached - Ideal for signs exceeding 6 metres in length.



Aluminium Tee Sections



SMALL TEE SECTION



LARGE TEE SECTION



HOLLOW TEE

For information on our range of Offset Brackets and Complete Offset Bracket Assemblies, please see Page 15.

SUPPORT & SIGN STIFFENING CD

Blackburns Metals offer a Signload Program for Support and Sign Stiffening to EN 12899-1 2007 (System Requirements: Windows 2000, XP and Vista)

For further details please contact your nearest Blackburns sales office.

(see back cover for location and contact details...)

Wallboard Sections

FOR 1/8" BOARD



1/8"

Continual Run



1/8"

End Stop

Wallboard Sections

FOR 3/16" BOARD



3/16"

Continual Run



3/16"

End Stop

Wallboard Sections

FOR 1/4" BOARD



1/4"

Continual Run



1/4"

End Stop

Wallboard Sections

FOR 1/2" BOARD



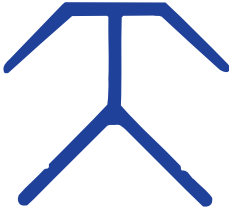
1/2"

Continual Run



1/2"

End Stop



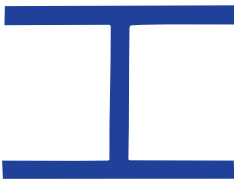
1/2"

External Corner



1/2"

Internal Corner



1142

3/4"

Continual Run



953

3/4"

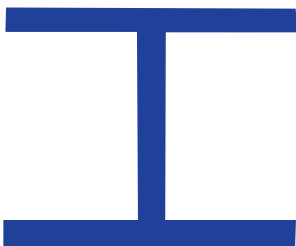
End Stop

Wallboard Sections

FOR 3/4" BOARD

Wallboard Sections

FOR 1" BOARD



1143

1"

Continual Run



1144

1"

End Stop

Miscellaneous Sections



733
0.190 kg/m



734
0.210 kg/m



806
0.381 kg/m



807
0.506 kg/m



855
0.271 kg/m



857
0.167 kg/m



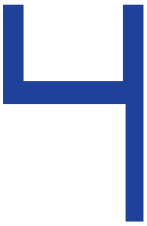
924
0.179 kg/m



926
0.394 kg/m



927
0.506 kg/m



928

0.430 kg/m



929

0.368 kg/m



952

0.176 kg/m



972

0.271 kg/m



Hanging Z Section

Aluminium Round Posts



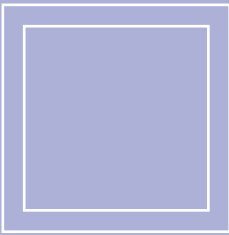
SIZE Ø	PAINTED GREY (BS 381C/693)	ANODISED SILVER (AA25)	MILL FINISH
50mm		■	■
76mm	■	■	■

Available in 3m to 6m lengths.

A full range of post caps and base plates are also available with prices on request.

Standard RAL Colours to order.

Aluminium Square Posts



SIZE	PAINTED BLACK (RAL 9005)	PAINTED WHITE (RAL 9016)	MILL FINISH
50 x 50mm	■	■	■
76 x 76mm	■	■	■
100 x 100mm	■	■	■

Available in 3m to 6m lengths.

Aluminium Square Posts can also be Anodised Silver on request.

A full range of post caps and base plates are also available with prices on request.

Standard RAL Colours to order.

SIZE Ø	PVC GREY	GALVANISED
50mm	■	■
60mm	■	■
76mm	■	■
89mm	■	■
114mm	■	■
140mm	■	■
168mm	■	■
197mm	■	■
219mm	■	■

Available from 3m lengths upwards.

A full range of stainless steel clips, post caps and base plates are also available with prices on request.

SIZE	PVC GREY
Available on request	■

Available from 3m lengths upwards.

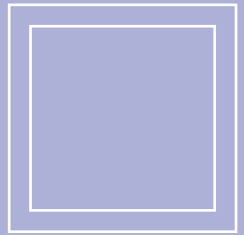
A full range of stainless steel clips, post caps and base plates are also available with prices on request.



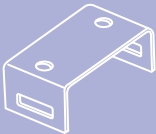
Steel Round Posts



Steel Square Posts



Buckle Systems



BUCKLE SYSTEMS

TYPE 1 BUCKLE

TYPE 2 BUCKLE

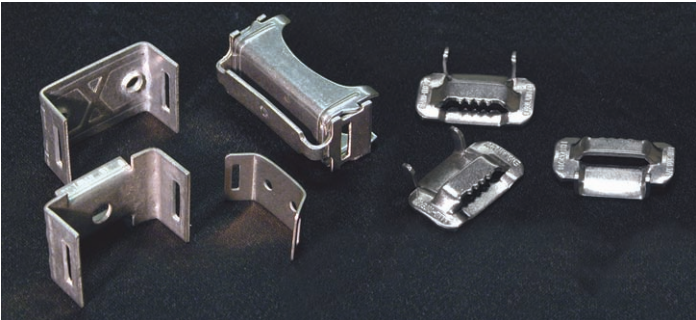
TYPE 3 BUCKLE

STANDARD BUCKLE

1/2" Wide

3/4" Wide

Buckles are sold in quantities of 100



BANDING SYSTEMS

CHANNEL CLAMPS

1/2" WIDE SCREW BAND BUCKLE STRAPS

16" Lengths

18" Lengths

24" Lengths

36" Lengths

44" Lengths

BANDING

Banding is available in:

1/2" x 100ft Coils

3/4" x 100ft Coils

1/2" WIDE BUCKLE STRAPS

18" Lengths

26" Lengths

36" Lengths

44" Lengths

3/4" WIDE BUCKLE STRAPS

18" Lengths

26" Lengths

36" Lengths

44" Lengths

Stainless Steel Banding Systems



Stainless Steel Clip Sections



BACK TO BACK CLIPS



TWO BOLT CLIPS



TWO BOLT
HEAVY DUTY 'D' CLIPS



TWO BOLT MINI 'D' CLIPS



ONE PIECE CLIPS



SQUARE &
RECTANGULAR CLIPS

SIZE Ø

50mm
60mm
76mm
89mm
114mm
127mm

50mm
60mm
76mm
89mm
114mm

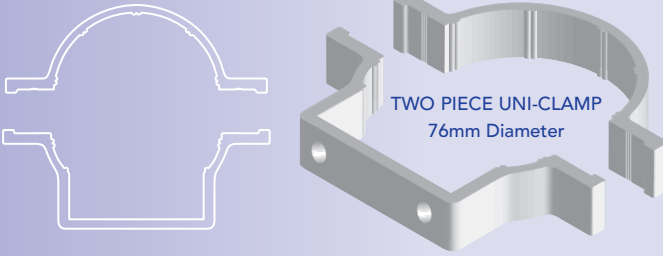
140mm
168mm
194mm
219mm
244mm

13mm
16mm
19mm
25mm

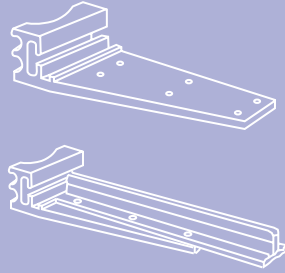
50mm
60mm
76mm
89mm
114mm

50 x 50mm
76 x 76mm
80 x 80mm
100 x 100mm

ALUMINIUM OFFSET BRACKETS & TWO PIECE UNI-CLAMP



Aluminium
Offset Brackets



Complete
Small
Offset Bracket
Assemblies

Complete
Large
Offset Bracket
Assemblies

LENGTH incorporating Tee Section	PAINTED BLACK (RAL 9005)	PAINTED GREY (BS 381C/693)	MILL FINISH
200mm	■	■	■
225mm	■	■	■
300mm	■	■	■
375mm	■	■	■
450mm	■	■	■

LENGTH incorporating Tee Section	PAINTED BLACK (RAL 9005)	PAINTED GREY (BS 381C/693)	MILL FINISH
200mm	■	■	■
225mm	■	■	■
300mm	■	■	■
375mm	■	■	■
450mm	■	■	■
600mm	■	■	■
750mm	■	■	■
900mm	■	■	■

BCP Composite Sheet



BLACKBURNS COMPOSITE PANEL (BCP)

Aluminium features	Al-Mn alloy series 1100 Sheet thickness 0.3mm
Panel exterior surface	Gloss Polyester coating 20 microns Protective plastic film 50 microns
Panel interior surface	Matt
Standard sizes	2440 x 1220 x 2mm 3050 x 1500 x 2mm 3050 x 1000 x 3mm 2440 x 1220 x 3mm 3050 x 1500 x 3mm 3000 x 2000 x 3mm 4050 x 1500 x 3mm 3050 x 1250 x 4mm 3050 x 1500 x 4mm 4050 x 1500 x 4mm

Not all sizes are listed.
Please contact your local
Blackburns Sales Office
for more information.

Standard colours in 3mm

2mm / 4mm thickness
Available in White only

 Bright White	 Ultramarine Blue RAL 5002
 Night Blue RAL 5022	 Traffic Red RAL 3020
 Traffic Green RAL 6024	 Traffic Yellow RAL 1023
 Bronze Metallic	 Silver RAL 9006
 Jet Black RAL 9005	 Light Ivory RAL 1015
 Moss Green RAL 6005	 Brushed Aluminium
 Mirror Polished Silver	 Mirror Polished Gold

Customer specials require a minimum run of 600m²
PLEASE NOTE: Colours may vary slightly due to CMYK colour conversion

BCP (POLYESTER COATING) SHEET SPECIFICATIONS

PANEL DIMENSIONS

Panel Thickness	2mm / 3mm / 4mm
Aluminium Thickness	0.3mm
BCP Light	0.21mm Skin
Sheet Weight	3.17m ² .k / 4.27m ² .k / 5.10m ² .k

DIMENSIONAL TOLERANCES

Thickness	±0.1mm
Width	-1mm ~ +2mm
Length	-1mm ~ +3mm
Diagonal	≤3mm
Thermal Expansion	≤4.00 x 10 ⁻⁵ / °C
Aluminium Thickness	±0.02mm

SURFACE PROPERTIES

Paint Thickness (micron)	≥20
Pencil Hardness	≥HB
Toughness of coating	≤HB
Impact Strength	50kg . cm ² , Excellent, without crack
Boiling Water Resistance	Boiling for ≥2hrs in 99°C±1 without change
Acid Resistance	No Change (Immerse in 2% HCl 24hrs)
Alkali Resistance	No Change (Immerse in 2% NaOH 24hrs)
Solvent Resistance	No Change (Cleaned x100, with Xylene by 1kgf)
Cleaning Resistance	No Change (Immerse in 20# Engine Oil 24hrs)
Peel Strength 180°	≥5.8 N/mm
Temperature Resistance	50 to 90°C

PRODUCT PROPERTIES (2mm / 3mm / 4mm)

Sound Absorption NRC	0.05
Sound Attenuation Rw db	27 / 28 / 29
Water Absorption % by Vol.	0.01
Thermal Performance	Thermal Deforming ≥105°C - ASTM D 648-01 Thermal Resistance 0.033 (m ² .k) / W Thermal Conduction Coefficient 5.31W / m ² .k
Core Composition	High Pressure LDPE Polyethylene

BCP Composite Sheet



BCP CIRCLES (DIAMETER) - STANDARD ROAD TRAFFIC SIZES

300mm

450mm

600mm

750mm

900mm

1200mm

Other sizes available upon request

BCP TRIANGLES (VERTICAL HEIGHT) - STANDARD ROAD TRAFFIC SIZES

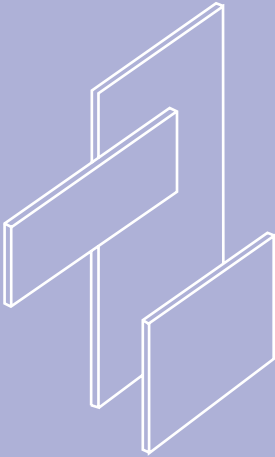
600mm

750mm

900mm

Other sizes available upon request

BCP Hoarding Panel



BCP FOR ALL YOUR SIGN MAKING NEEDS...

Due to the excellent hard smooth finish, BCP lends itself extremely well to sign manufacture. BCP can be digitally or screen printed, have vinyl lettering and sheet applied and can also be spray painted. Combined with the pre-finished coloured polyester coating, it is truly a remarkable product for creating signs that can be shaped and formed, with a unique, hard-wearing finish that exudes quality. A range of colours and finishes are available from our branches throughout the UK.

If you have a requirement for a specific RAL or Pantone colour then please contact your local Blackburns sales team, we also provide a range of finishes from granite and timber effects to metallics in many colours.

SIZE	WHITE MATT BOTH SIDES	WHITE MATT ONE SIDE	WHITE MATT / GLOSS
2440 x 1220 x 2mm	■		
2440 x 1220 x 3mm	■	■	
3000 x 1500 x 3mm	■		
3050 x 1500 x 3mm			■

(Aluminium skin thickness 0.21mm)

BCP Composite Tray



BCP COMPOSITE TRAY SIGNS MADE TO ORDER...

Blackburns Metals Limited offer an in-house service to manufacture BCP into return-edge signs.

Sign Channels can also be attached using the blind rivet system.

BCP TRAFFIC	SIZE	SKIN
■	2000 x 1000 x 3mm	0.5mm
■	8' x 4' x 3mm	0.5mm
■	10' x 5' x 3mm	0.5mm

Meeting EN 12899-1 2007 Regulations

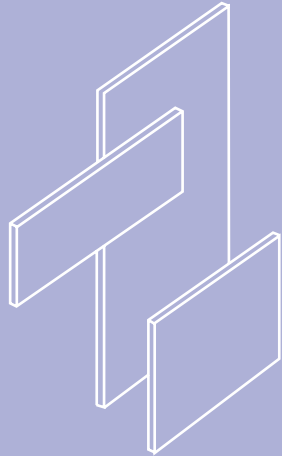
FINISH	SIZE	TYPE
Satin Polished (One Side 240s)	2500 x 1250 x 0.7mm	T304
	2500 x 1250 x 0.9mm	T304
	2500 x 1250 x 1.2mm	T304
	2500 x 1250 x 1.5mm	T304
	2500 x 1250 x 3.0mm	T304
Satin Polished (One Side 240s)	2500 x 1250 x 0.7mm	T316
	2500 x 1250 x 0.9mm	T316
	2500 x 1250 x 1.2mm	T316
	2500 x 1250 x 1.5mm	T316
	2500 x 1250 x 3.0mm	T316
Mirror Polished (One Side)	2500 x 1250 x 0.7mm	T304
	2500 x 1250 x 0.9mm	T304

Sheets are available in other gauges and sizes on request

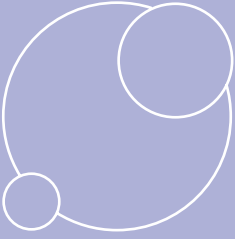
BCP Traffic

APPROVED for
Permanent Road Signs

Stainless Steel Sheet



GRP Circles



CIRCLE SIZES (DIAMETER)
300mm
450mm
600mm
750mm
900mm
1200mm
1500mm

Other sizes available upon request

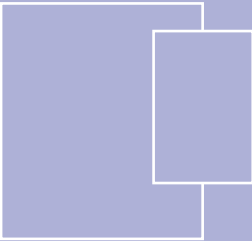
GRP Triangles



TRIANGLE SIZES (VERTICAL HEIGHT)
600mm
750mm
900mm
1200mm
1500mm

Other sizes available upon request

GRP Sheet



SHEET SIZE
8' x 4' x 3.2mm (also available in white)
10' x 5' x 3.2mm

Other sizes available upon request

All GRP Sheet sizes can be supplied with Sign Channels attached using a blind rivet system.

TABLE 2

BOLLHOFF / HENROB RIVET RECOMMENDATIONS		
RIVET PART NO.	R20845CK02	R20845C05
RIVET LENGTH	8mm	8mm
RIVETING THICKNESS	4mm	6mm
SIGN FACE	GRP	GRP
STIFFENER	Aluminium	Aluminium

Note: These self-piercing rivets are supplied with either a silver or black Kalgard finish and are available from either Bollhoff or Henrob.

SIGN CONSTRUCTION

The adherable sign face can be applied to either face of GRP Panels.

STIFFENING AND RIVETING

Support channels may be secured to the back of the panels by the following methods:

- BOLLHOFF non-penetrating rivet system.
- Adhesives using 3M 4980 VHB Tape or 3M Scotchweld DP 460.

SUPPORT RAIL RECOMMENDATIONS

GRP Sheet has good tensile strength and impact resistance. The nature of GRP is that it is more flexible than Aluminium. To obtain the best use and service life it is recommended that the support rails, which provide stiffening, are fixed in accordance with TABLE 1.

TABLE 1

SIGN SECTION HEIGHT	NO. OF RAILS	MAX. RAIL SPACING
0.50m	2	400mm
0.75m	3	325mm
0.90m	3	400mm
1.00m	4	300mm
1.20m	4	366mm
1.50m	5	350mm
1.75m	6	380mm
2.00m	7	317mm
2.25m	8	340mm
2.44m	8	335mm

SUPPORT RAILS SHOULD BE FIXED A MINIMUM OF 30MM FROM THE RUNNING EDGE OF THE SIGN. IF A SHEET JOINING SECTION IS TO BE FITTED BY MEANS OF RIVETING, THEN THE RIVET SHOULD NOT BE WITHIN 15MM OF THE SHEET EDGE.

GRP Sheet is available in 3.2mm thickness. When fixing aluminium support rails by means of a non-penetrating rivet system, a maximum rivet spacing of 150mm should be adopted.

Note: GRP Sheet signs will flex more than Aluminium signs of the same size until they are mounted on posts, hence it is advisable to store completed signs flat or with support rails vertical to prevent possible damage to the sign facings.

BOLLHOFF / HENROB RIVET RECOMMENDATIONS

Due to the different properties of the Aluminium alloy and GRP sign plate used for signs, it is necessary to change rivets for each material thickness as per TABLE 2 (page 20).

- DO NOT rivet within 15mm from the edge of the GRP sign plate.
- Riveting pressure may need to be adjusted to suit the ductility of the materials being riveted.
- Should not be necessary to change Upsetting Die or Nose Assembly.



Blackburns Sign Tray & Fret Work...

Blackburns CNC Router allows the design and manufacture of bespoke Composite sign trays and fret work to the customers specification, like those shown in the images above.

for further info contact your **local** Blackburns

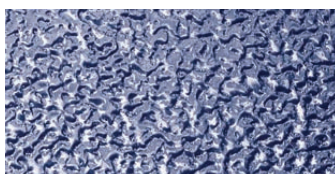
(see back cover for location and contact details)

SHEET FINISH	SIZE	WEIGHT
Five Bar Treadplate	2500mm x 1250mm x 1.5mm	13.3 kg
	2000mm x 1000mm x 2mm	11.3 kg
	2500mm x 1250mm x 2mm	18.7 kg
	3000mm x 1500mm x 2mm	26.8 kg
	2000mm x 1000mm x 3mm	17.3 kg
	2500mm x 1250mm x 3mm	27.0 kg
	3000mm x 1500mm x 3mm	38.9 kg
	2000mm x 1000mm x 4.5mm	25.0 kg
	2500mm x 1250mm x 4.5mm	39.1 kg
	3000mm x 1500mm x 4.5mm	56.3 kg
	2000mm x 1000mm x 6mm	34.0 kg
	2500mm x 1250mm x 6mm	51.7 kg
	3000mm x 1500mm x 6mm	74.3 kg
	2500mm x 1250mm x 9.5mm	84.3 kg
Stucco	2000mm x 1000mm x 0.5mm	2.74 kg
	2500mm x 1250mm x 0.5mm	4.28 kg
	2000mm x 1000mm x 0.6mm	3.28 kg
	2500mm x 1250mm x 0.6mm	5.14 kg
	2000mm x 1000mm x 0.7mm	3.84 kg
	2500mm x 1250mm x 0.7mm	5.99 kg
	2000mm x 1000mm x 0.8mm	4.38 kg
	2500mm x 1250mm x 0.8mm	6.84 kg
	2500mm x 1250mm x 1.0mm	8.50 kg
	2500mm x 1250mm x 2.0mm	10.0 kg
Propeller *	2500mm x 1250mm x 1.5mm	14.0 kg
	2500mm x 1250mm x 2.0mm	18.0 kg
	2500mm x 1250mm x 3.0mm	28.0 kg

* Propeller pattern also available up to 6mm thick
 Contact your local Blackburns for further information (see back cover for contact details)



Five Bar Treadplate

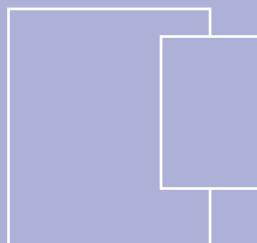


Stucco



Propeller

Patterned Sheet



**PROVIDING
 DRAMATIC, DECORATIVE
 SURFACE DESIGN...**

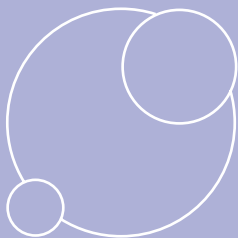
For use in interior and exterior flooring and cladding, providing dramatic decorative surface design.

All our Patterned Sheets are available in various finishes and colours, including bright polished finishes and an anodised colour range available in small batches. The only limitation to the colour and finish is the designers imagination.

Patterned Sheet is available in a wide range of sheet sizes and thicknesses to suit your application, we can supply bespoke panel sizes and fabricate to your requirements.

Please contact your local Blackburns Service Centre for further information.

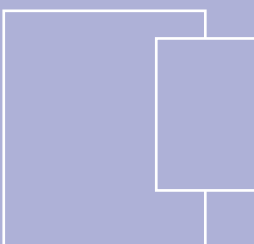
PLASTISOL Coated Steel Circles



PLASTISOL Coated Steel Triangles



PLASTISOL Coated Steel Sheet



SHAPE	SIZE
PLASTISOL Coated Steel Circles	300mm
	450mm
	600mm
	750mm
	900mm
PLASTISOL Coated Steel Triangles	1200mm
	600mm
	750mm
	900mm
PLASTISOL Coated Steel Sheet	1200mm
	6' x 3' x 1.2mm
	2500mm x 1200mm x 1.2mm

All PLASTISOL Panel sizes can be supplied with Sign Channels attached using a blind rivet system.

RESISTANCE TO AGGRESSIVE SUBSTANCES

- Acids: very good
- Alkalis: very good
- Chlorine solvents: good
 - Aromatic: average
 - Alcoholic: very good
 - Aliphatic: good
- Mineral oils: Resistance depends on the gas or liquid concentrations, and whether there is permanent contact.
In all cases please consult us.

PROPERTIES OF PVC PLASTISOL

Total dry film thickness:200 microns
 Coating finish:Leathergrain emboss
 Gloss level:30 - 40%
 Maximum ambient temperature:60°C
 Minimum forming temperature:+10°C
 Minimum bending radius:OT
 Scratch resistance:3500g
 Corrosion resistance:

1. Salt spray1000 hours
2. Humidity cabinet1000 hours

Reverse coat: Although the coat on the reverse side is usually not required to have UV resistance, it must still be corrosion resistant and highly adhesive. On a well cleaned and chemically pre-treated surface, the primer and epoxy coats on the reverse side provide a coating that fully meets these requirements.

PERFORMANCE

The time period before first maintenance is needed varies from 10 to 17 years, depending on the environment, profile, orientation and colour.

INFORMATION

Polyvinyl chloride based thermoplastic resin (PVC Plastisol) particularly suitable for industrial applications. This coating is available in coil or cut-length form supplied on hot-dipped galvanised substrate.

This products has good corrosion resistance and good handle-ability due to the thickness of the coating. It has excellent formability characteristics and is suited for Road Sign manufacture.

Standard colours are Road Traffic Grey and Black.

EMBOSSSED PLASTISOL 200 μ m

Recommended for aggressive atmospheres: urban sites, chemical industry, coastal zones.

COATING TECHNICAL PROPERTIES

Thickness (thicknesses are nominal values)

- Embossed Plastisol 200 μ m - 5 μ m (primer) + 195 μ m
- Protection: None or FST film

Flexibility

- Bending: (up to 1.5mm) OT on galvanised
- Drawability: good
- Shock resistance: excellent

Heat Resistance

- Maximum continuous temperature: 60°C
- Fire classification: M1

CHEMICAL CHARACTERISTICS

Corrosion resistance

- Tropical test: 1000 hours
- ECCa T8 Salt Spray Test: 1000 hours

RAL Colour Guide

PLEASE NOTE:

This guide is for illustration purposes only. Colours will vary slightly due to CMYK printing ink conversion.

			
RAL 1001	RAL 1002	RAL 1003	RAL 1006
			
RAL 1007	RAL 1012	RAL 1013	RAL 1014
			
RAL 1015	RAL 1016	RAL 1018	RAL 1019
			
RAL 1021	RAL 1023	RAL 2000	RAL 2001
			
RAL 2002	RAL 2009	RAL 3000	RAL 3001
			
RAL 3002	RAL 3003	RAL 3004	RAL 3005
			
RAL 3007	RAL 3009	RAL 3011	RAL 3012
			
RAL 3015	RAL 3020	RAL 3027	RAL 4004
			
RAL 4005	RAL 5000	RAL 5002	RAL 5003
			
RAL 5004	RAL 5005	RAL 5007	RAL 5008
			
RAL 5009	RAL 5010	RAL 5011	RAL 5012
			
RAL 5013	RAL 5014	RAL 5015	RAL 5017



Can't find the correct colour?





If you require a different RAL colour, or colour swatch please contact your local Blackburns Sales office.

(see back cover for location and contact details...)

RAL Colour Guide (continued...)

PLEASE NOTE:

This guide is for illustration purposes only. Colours will vary slightly due to CMYK printing ink conversion.

 RAL 7035	 RAL 7037	 RAL 7038	 RAL 7039
 RAL 7040	 RAL 7042	 RAL 7043	 RAL 7044
 RAL 8003	 RAL 8004	 RAL 8007	 RAL 8011
 RAL 8012	 RAL 8014	 RAL 8015	 RAL 8016
 RAL 8017	 RAL 8019	 RAL 8024	 RAL 8040
 RAL 8070	 RAL 8080	 RAL 9001	 RAL 9002
 RAL 9003	 RAL 9004	 RAL 9005	 RAL 9010
 RAL 9011	 RAL 9016	 RAL 9018	 NEED ANOTHER COLOUR? CALL BLACKBURNS...

Can't find the correct colour?

If you require a different RAL colour, or colour swatch please contact your local Blackburns Sales office.

(see back cover for location and contact details...)

Blackburns Products & Services

ALUMINIUM

- Sheet
- Patterned Sheet
- Plate
- Coils & Blanks
- Circles
- Shate
- Special Extrusions
- Angles
- Tee & Zed Sections
- Channels
- Flat Bar
- Round Bar
- Square Bar
- Welding Wire
- Round Tube
- Rectangular Tube
- Gutters & Cope
- Fluted Edges & Nosings
- Wallboard Sections

STAINLESS STEEL

- Sheet
- Treadplate
- Plate
- Coil
- Section
- Pipe
- Circle Polished
- Flanges
- Seamless Tube
- Hygienic Tube & Fittings
- High Purity Tube & Fittings
- Screwed Fittings
- Socket Weld Fittings
- Structural & Decorative Tube

BRASS

- Rod
- Hexagon
- Angle
- Square
- Tube
- Plate
- Flat Bar
- Sheet

BRONZE

- Drawn Rod
- Rod
- Hexagon
- Hollow Bar
- Plate
- Sheet

COPPER

- Tube
- Flat Bar
- Sheet
- Plate
- Round Bar

COIL PROCESSING

- Aluminium Slit Coil
- Stainless Steel Slit Coil
- Aluminium Precision Blanks
- Stainless Steel Precision Blanks

PLATE

- Aluminium Plate 5083
- Aluminium Plate 6082
- Alumec 79-89-99
- MIC-6

ARCHITECTURAL PRODUCTS SURFACE DESIGN

- Composite Panels
- Anodised Sheet
- Patterned Sheet
- Handrail System

FABRICATION PROCESSING

- Plastic Coating
- Guillotining
- Bench Tooling
- Bending
- Slitting
- Shearing
- Sawing
- Tapping & Drilling
- Blanking
- Mitring
- Punching
- Pressing

SIGNS & SIGN COMPONENTS

- Achromed & Painted Sheet
- Aluminium Circles
- Aluminium Triangles
- Aluminium Rails
- Aluminium Tee Sections
- Aluminium Round Posts
- Aluminium Square Posts
- Steel Round Posts
- Steel Square Posts
- Platisol Coated Sheet
- Planking Systems
- Trays
- Clip Sections
- Composite Panels
- Stainless Steel Banding Systems

MARINE PRODUCTS

- Marine Aluminium
- Marine Stainless Steel
- BCP Composite
- Yellow Metals

Contact your local Blackburns
or visit online:

www.blackburnsmetals.com



Design and artwork by: www.digitalegg.net



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