klöckner & co multi metal distribution

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Credit

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A special thanks to our valued customer, Morelock Signs Limited of Wolverhampton, for the supply of the sign facings used throughout this publication



Notes

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Sheets



Shape & Size see product range Finish & Colours mill finished, alochromed & painted sheet available in grey & a range of colours **Accessories** plastic coating for additional protection **Applications** all signage work Supplementary services cutting-to-size/guillotined & folding Cross reference cut to size clips painting posts bollhoffs

trays

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Sheets

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

2000mm x 1000mm x 11swg

2438mm x 600mm x 11swg

3000mm x 600mm x 11swg

2100mm x 1524mm x 11swg

2500mm x 1250mm x 11swg

Grey Two Side

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

10' x 4' x 11swg

10' x 5' x 11swg

Grey Back with Black Front

8' x 4' x 11swg 10' x 5' x 11swg

Size continued

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

8' x 4' x 11swg

All sizes can be supplied

Alochromed only.

White One Side

8' x 4'x 11swg

2500mm x 1250mm x 0.7mm

2500mm x 1250mm x 1.0mm

2500mm x 1250mm x 1.2mm

2500mm x 1250mm x 1.5mm

3000mm x 1500mm x 1.5mm

2500mm x 1250mm x 2.0mm

White Signi colour

2500mm x 1250mm x 2.0mm

3000mm x 1500mm x 2.0mm

Other sizes and colours available on request. See the enclosed RAL chart for guidance



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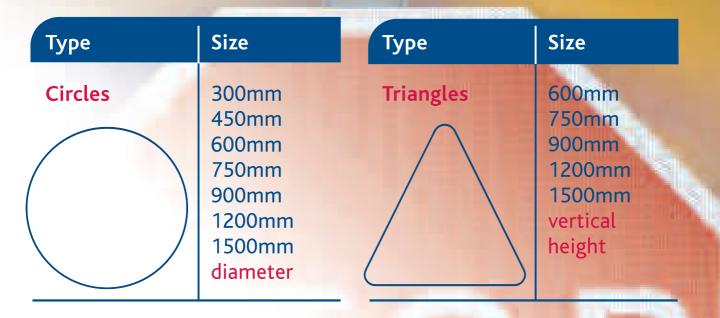


BS873 Circles, Triangles, Octagons





BS873 Circles, Triangles, Octagons



Туре	Size
Octagon	600mmm 750mm 900mm across flats

Other sizes available on request None standard or specific RAL colours available on request. Ask about our pre-printed vinyl faces.

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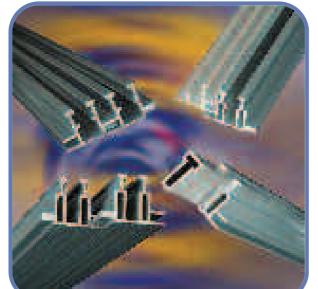


Sign Rail



mill finished, painted, grey, black or coloured

Applications



Supplementary services
cut-to-length
Cross reference
fixing & erection systems



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Sign Rail

Туре	Code	Length	Mill Finish	Grey to BS381C/693	Black RAL 9005
Mini Rail	SRAI-7455	5000mm			
Small Rail	SRA-646	3000mm 5000mm			
Medium Rail	SRA-645	3000mm 5000mm			
Large Bollhoff	SRA-105	3000mm 5000mm 6000mm		•	

continued



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Sign Rail

Туре	Code	Length	Mill Finish	Grey to BS381C/693
Medium Interlock	SRA-104	3000mm 5000mm 6000mm		
Large Interlock	SRA-102	3000mm 5000mm 6000mm		
Interlock Mate	SRA-Mate	3000mm 5000mm 6000mm		
Large Join	SRA-102 Join	3000mm 5000mm		•

continued



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Sign Rail

Туре	Code	Length	Grey to BS381C/693	Mill Finish
300mm Section	SPL-102	6000mm 7300mm		

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Posts





Supplementary services

cut-to-size
bending
Accessories
caps
base plates
clips

bands Cross reference

clips/bollhoff brackets tamtorques

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Steel Post/Sign Posts

Туре	Size		Galvanised	Grey Plastic Coated
Round Post	50mm 60mm 76mm 89mm 114mm 140mm 168mm 194mm 219mm 244mm 273mm	DIA DIA DIA DIA DIA DIA DIA DIA		

Туре	Size		Galvanised	Grey Plastic Coated
Square Post	50mm 60mm 76mm 80mm 100mm	DIA DIA DIA DIA		

Available: 3 metre to 10 metre lengths

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

Grey Plastic Coated Available: 3 metre to 7.5 metre length

continued



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Aluminium Post/Sign Posts

Туре	Size	Mill Finish	Anodized Silver	Painted Grey
Round Post	1		AA25	BS381C/693
	50mm DIA 60mm DIA 76mm DIA 89mm DIA 114mmDIA			

Туре	Size	Mill Finish	Anodized Silver	Painted Grey
Square Post			AA25	BS381C/693
	50mm SQ 76mm SQ 102mm SQ			

Available: 3 metre to 7.5 metre lengths

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

continued



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Post Caps & Base Plates

Size	Circular Post Cap Int	Circular Post Cap Ext	Square Post Cap Int
50mm 60mm 76mm 80mm 89mm 100mm 114mm 140mm 168mm 219mm 244mm 273mm			

Size	Round Base Plates	Square Base Plates	
50mm	•	•	
60mm	•	•	
76mm	•	•	
89mm	•	•	
114mm	•	•	
140mm	•	•	

Standard Post caps are supplied in grey

Other colours may be available on request.



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Posts/Wide Based Posts



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Wide Based Posts/Lamp Posts

	Base Diameter	Base Height	Planting Depth	Post Dia	Post Height	Finish Grey	
1	40mm	1075	800	76	3000	•	•
	77		NAME OF THE OWNER, OWNE		4000		•
	1//	54		100	5000	134	•
		100	1000	76	6000		•
1	168mm	1200	1000	89	3500		•
		- 13			4500		•
					5000		•
^			1200	89	4500		•
Post					5000		•
					6000		•
1	68mm	1200	1200	114	6000		•

Base

Planting Depth

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Clips, Post clips



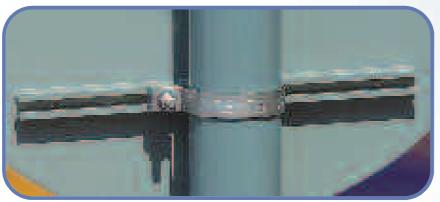
Finish/colours
mill-finished
stainless steel
Accessories

All clips supplied with nuts/bolts, washers support plate supplied with heavy duty clips where applicable.

Cross reference

strapping & banding

tamtorques railed signs posts



Clips, Post clips

Туре	Size		Code	One Piece Clips
One piece Clips	50mm 60mm 76mm 89mm 102mm 114mm	DIA DIA DIA DIA DIA	SSCL-50 SSCL-60 SSCL-76 SSCL-89 SSCL-102 SSCL-114	
Two Bolt D Clips	50mm 60mm 76mm 89mm 114mm	DIA DIA DIA DIA DIA	SSCL-50-TB SSCL-60-TB SSCL-76-TB SSCL-89-TB SSCL-114-TB	Two Bolt D Clips Two Bolt Heavy- Duty D Clips
Two Bolt Heavy-Duty D Clips	127mm 140mm 168mm 194mm	DIA DIA DIA DIA	SSCL-127 SSCL-140 SSCL-168 SSCL-194	

continued



Clips, Post clips

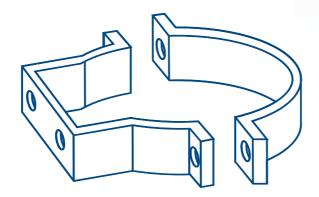
Туре	Size	Code Two Bolt Mini D Clips
Two Bolt Mini D Clips	13mm DIA 16mm DIA 19mm DIA 25mm DIA	SSCL-13 SSCL-16 SSCL-19 SSCL-25
Back - to - back Clips	50mm DIA 60mm DIA 76mm DIA 89mm DIA 114mm DIA 102mm DIA 127mm DIA 140mm DIA	SSCL-50-BB SSCL-60-BB SSCL-76-BB SSCL-89-BB SSCL-114-BB SSCL-102-BB SSCL-127-BB SSCL-140-BB
Square and Rectangular Clips	50mm x 50mm 76mm x 76mm 80mm x 40mm 80mm x 80mm 100mm x 150mm 100mm x 100mm 120mm x 120mm	SSCL-50-SQ SSCL-76-SQ SSCL-80-40 SSCL-80-SQ SSCL-100-150 SSCL-100-SQ SSCL-120-SQ

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Clips, Post clips

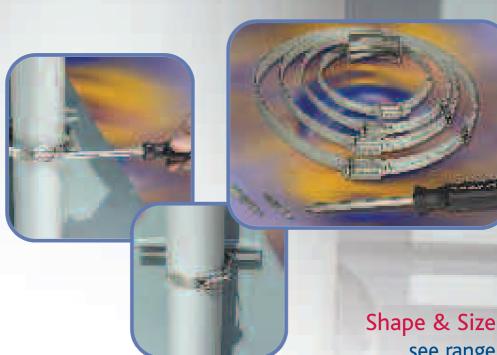
Туре	Size		Code
Two Piece Bracket Clips	76mm 89mm	DIA DIA	SCL 76 SCL 89
		1	
	76mm 89mm	DIA DIA	SCL 76 SCL 89



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Tamtorque/Anti-theft clip





Finish & Colour
stainless
Accessories
specialist fixing tools inc: spanners
Application
sign erection/finger posts
Replace with
clips & buckle straps banding
Additional info
anti-theft
Cross reference
universal channel clamps
posts

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Tamtorque/Anti-theft clip

Туре	Size	Post Size*	Code
Anti-Theft Tamtorque® Clip	70	55-70	SSCL-55-70
	100	70-100	SSCL-70-100
	130	100-130	SSCL-100-130
	190	130-190	SSCL-130-190
	250	190-250	SSCL-190-250
	340	250-340	SSCL-250-340

^{*} For close fitting brackets it will be necessary to make an allowance for the extra band length that U brackets and similar clips require.

Tool for use with Anti-Theft Tamtorque® Clip

Туре	Code	Description
Ratchet Spanner	SFIT - Tamtorque Ratchet	Tamtorque Ratchet Spanner DTT2BG 1/4" square ratchet driver complete with a Tamtorque socket bit.

continued



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Tamtorque/Anti-theft clip

Туре	Code	Description
Driver	SFIT - Tamtorque Driver	Tamtorque Driver DTT1BG A screwdriver and T - bar combination tool with non-removeable Tamtorque bit.
Power Tool Bit	SFIT - 50BG Tamtorque Bit	Tamtorque Power Tool Bit DTTBP50BG 1/4" hex x 50mm long bit for direct insertion into cordless drill/drivers. Two bits per bag.

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Buckle Straps & Banding Systems



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Buckle Straps & Banding Systems

Туре	Code	Quantities
MG1/P - MG1/S	KMS1	Buckles are sold in quantities of 100
MG2/S	KMS2	
MG5/S Band	KMS3	
Standard banding		

- Banding is available in 1/2 inch x 100 ft
- Banding is available in 3/4 inch x 100 ft

continued 💀



Buckle Straps & Banding Systems

Туре	Size	Code	
Buckle Straps	458mm 610mm 914mm	KMSB	-
Uni-Channel Clamp		KMSUNI	-
Strapping Buckles	12mm 19mm	KMSSB	
Banding Tool	One tool fits all.		_

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Aluminium Composite – Etalbond® Light





Finish & Colours
see range
Accessories
range of extrusions available
Applications
sign panels
Supplementary services
coated with plastic film,
cut-to-size, bespoke sizes,
bollhoff and tray/cassette
Replacement
aluminium sheet
Cross reference
bollhoff and tray/cassette

Aluminium Composite – Etalbond® Light

Colour	Ral Reference	Dimensions apply to all colours
Yellow	1023	2550 x 1250 x 2mm
Red	3020	3050 x 1500 x 2mm
Blue	5002	
Green	6032	2550 x 1250 x 3mm
Black	9004	3050 x 1500 x 3mm
Silver	9006	4050 x 1500 x 3mm
White	9016	
Brushed	Satin	2550 x 1250 x 4mm
		3050 x 1500 x 4mm
		4050 x 1500 x 4mm

Etalbond® light is supplied to the specification Alloy: Al 3105H44

ALUCORE®

What is ALUCORE®?

ALUCORE® is an aluminium sandwich-type honeycomb panel with high rigidity and an extremely low weight.

It uses a viscoplastic adhesive which provides a better peel strength as well as additional fabrication options.

Available in a wide range of standard and special colours and finishes.

Resistant to weathering, extreme sunlight, industrial atmospheres, moisture and soiling.





Shape & Size
wide range
me sunlight,
Ind soiling.
White as standard
plus any colour depending
on production quantity
Accessories
Edging, joining, trimming section
Applications
Any product where strength &
lightness is essential
Supplementary services
Cut-to-size, plastic coating for protection
Cross reference
Bespoke fabrication work

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ALUCORE®

Thickness	Size	Colour	White
6mm	6250mm x 1500mm	*	•
10mm	6250mm x 1500mm	*	•
15mm	6250mm x 1500mm	*	•
20mm	6250mm x 1500mm	*	0
25mm	6250mm x 1500mm	*	

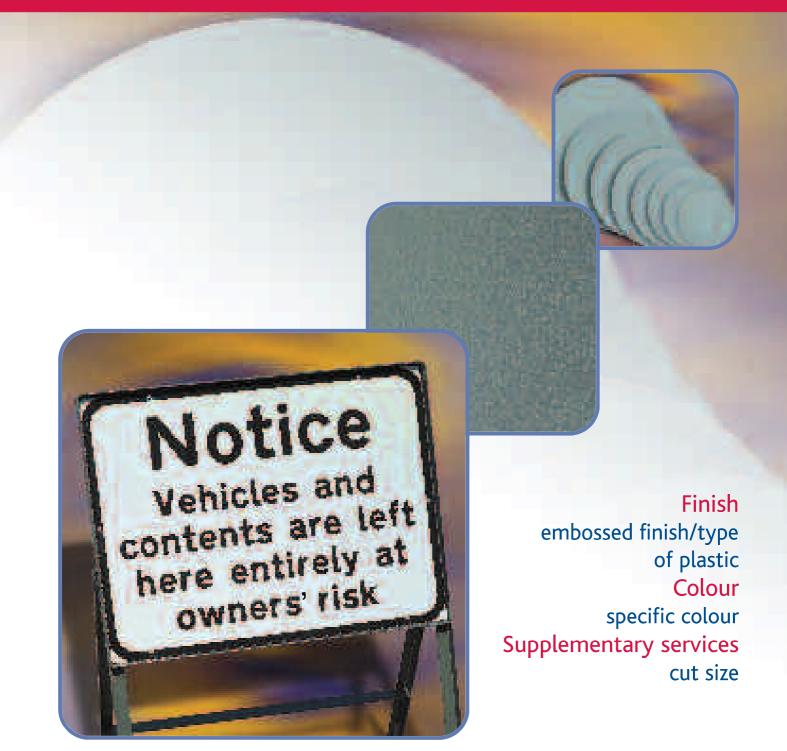
^{*} Bespoke colours available depending on production quantities.

ALUCORE®

60% lighter than a standard aluminium panel with the same rigidity Half the weight of an equivalent plywood panel & 25% more rigid

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Plastisol



Plastisol

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.

The product has good corrosion resistance and good handle-ability due to the thickness of the coating. It has excellent formability characteristics and is suited to cladding and roofing applications.

A range of standard colours and gauges are available. Special colours, gauges and substrate qualities can be obtained by arrangement. For more detailed information on the product view the product data sheet.

Embossed Plastisol 200 µm

Recommended for aggressive atmospheres: urban sites, chemical industry and coastal zones (in which case we recommend a double sided coating).

Good resistance to abrasives and to severe forming.

Rautaruukki recommends its use to category v for exterior atmospheres, and up to the category iv for interior atmospheres. Its leathergrain finish gives it warmth of appearance for high-prestige architectural applications, urban equipment and domestic appliances.

Coating Technical Properties

Thickness

These thicknesses are nominal values

- Embossed Plastisol 200 μm 5 μm (primer) + 195 μm
- 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

Resistance to aggressive substances

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

continued



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Plastisol

Properties of PVC Plastisol

Total dry film thickness 200 microns

Coating Finish Leathergrain

emboss

Gloss level 60° 30-40%

Max ambient temperature 60°C

Min. forming temperature +10°C

Min. bending radius OT

Scratch Resistance >3 500g

Corrosion Resistance

1. Salt Spray 1000 hours

2. Humidity Cabinet 1000 hours

British Board Agrément Cert. No. 97/3389

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 varies from 10 to 20 years, depending on the environment, profile, orientation and colour. In order to minimise the need for maintenance, light colours are recommended for environments in which UV radiation is strongest. The need for maintenance is estimated as follows:

Dark Colours - 10 - 20 years

Light Colours - 15 - 25 years





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Plastisol Panels

Туре	Size	Туре	Size
Circles	300mm 450mm 600mm 750mm 900mm 1200mm 1500mm diameter	Triangles	600mm 750mm 900mm 1200mm 1500mm vertical height

Туре	Sheet Size
Sheet	2500x1250 1050x750 600x450

Other sizes available on request



BS873 Standard Aluminium Bollhoff Blanks

Bollhoff - Flush riveted sign panel

The Bollhoff riveting system is a costeffective alternative to either pop rivets, double sided tape or adhesives.

ASD metal services can supply pre-railed sign blanks using the Bollhoff Flush rivetting system. A variety of substrates can be processed in this way and include Aluminium, EtalBond® light composite, Plastisol and GRP.

THE BENEFITS INCLUDE

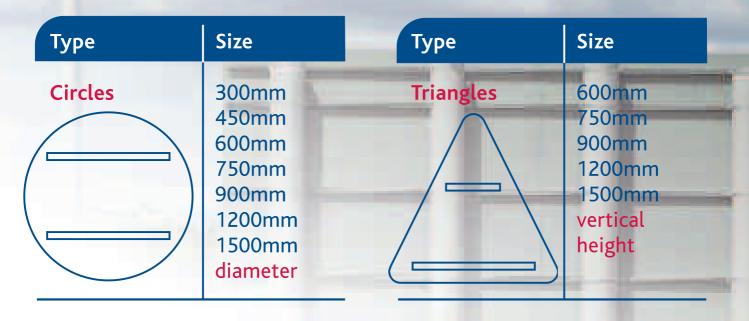
- Strong, watertight joint with consistent quality.
- Flush finish to allow easy application of sign vinyl.
- Allow for quick and easy fitting to posts.
- Reduction in customers production times.



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BS873 Standard Aluminium Bollhoff Blanks



Туре	Size	Туре	Size
Octagon	600mm 750mm 900mm across flats	Rectangle	A4 297x210mm A3 297x420mm 600x450mm 1050x750mm

Standard are Grey mill and Grey White.

Non-standard or specific RAL colours available on request. Ask about our pre-printed vinyl faces.



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BS873 Standard Aluminium Bollhoff Blanks

Non-Standard Pre-Railed Panels

ASD metal services can supply single piece pre-railed panels to customers' specific requirements up to 1525mm (5ft) high and 4000mm long.

Larger sign panels can be made up of modular sections where inter-locking rails are used to achieve a strong and robust assembly.



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Finger Post System



Shape & Size standard & tailored Finish & Colours

to complement key sign components & substrate

Applications

fixing erection sign panels
Supplementary services
coloured finish
Cross reference

fixing & erection systems substrates, tee sections, brackets, tamtorques



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Finger Post Brackets

	Type Aluminium Offset Brackets	Grey	Mill Finish
	Small Aluminium Offset Bracket		
1			
Å	Pre-Punched	•	•
		9	
i	Large Aluminium Offset Bracket	•	
•	Pre-Punched	•	
	continued 📴		

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Finger Post Tee Rails

Туре	Code	Length	Grey to BS381C/693	Mill Finish
Small Tee Section	SRA-TEE1	3000mm 5000mm		
Large Tee Section	SRA-TEE2	3000mm 5000mm		

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Finger Post Assembly

Type Complete Offset Bracket Assembly	Length	Grey	Mill Finish
Small Aluminium Offset Bracket	150mm 225mm 300mm 375mm 450mm		
Large Aluminium Offset Bracket	150mm 225mm 300mm 375mm 450mm 600mm 750mm 900mm		

Non standard lenghts are available on request

Bespoke fabricated products account for an ever increasing portion of our customers requirements. Rolling, bending and welding facilities allow ASD metal services to offer a range of post or presentation options.

Walking stick-type posts can be offered in a range of heights, radii and fixing options to suit your needs.



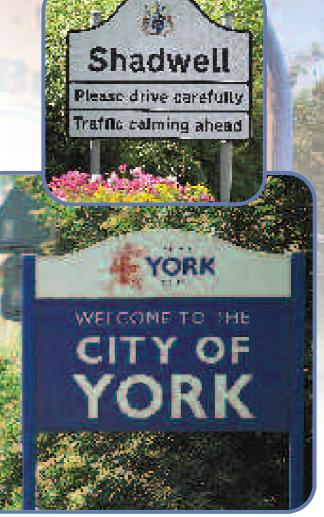
ASD metal services can produce a wide range of fabricated products tailored to customer requirements.



Boundary Signs

Pre-railed Boundary signs are supplied with the profile either routed or laser cut to customer requirement.





continued



Dog Sign Extrusions

Dog signs are made from a strong single piece extrusion with slotted fixing bars. These allow for quick and easy erection in conjunction with our banding and strapping systems.

This type of sign panel is suitable for any small portrait signage.



continued



Trays and Tray Signs

ASD metal services can produce a range of sign trays including welded and dressed corners in a range of sizes.

We also offer an in-house powder coating service in a range of standard and non-standard colours. Please refer to the RAL chart at the back of this buyers guide



continued



Security Shear Nuts

In this time of crime and vandalism, added security benefits are always welcome. Shear nuts can be used where, upon attaining the required torque, the hexagonal nut head shears off, leaving the fitting secure with a dome shaped fixing that can not easily be removed.



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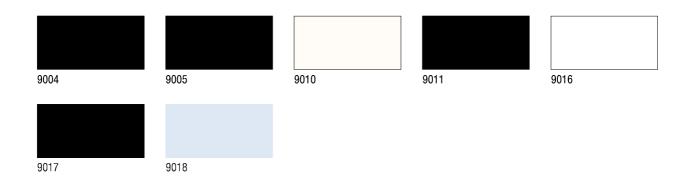
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BS 4800 Chart



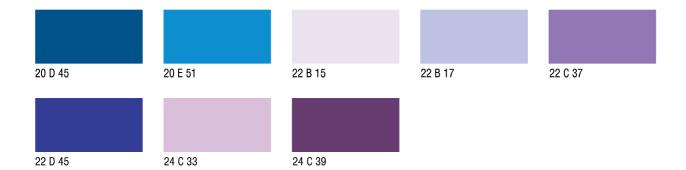
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BS 4800 Chart



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BS 4800 Chart



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BS 381C Chart



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BS 381C Chart



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The Bigger Picture

ASD metal services is one of the country's leading multi metal distributors offering a wide range of standard and processed products from nine distribution businesses strategically located throughout the UK.

The product portfolio encompases a comprehensive range of aluminium, stainless steel and a wide selection of derivative products for specific market applications, such as Sign, Automotive, Marine and Architectural.

As part of the international Klöckner group, the world's largest multi metal distributors, we have access to one of the most comprehensive stocks in Europe, ensuring unrivalled availablity options.

With its 39 businesses on 29 sites across the UK, the newly-named ASD metal services employs local people with local knowledge to provide customers with the very best in service.

Behind each local business unit is the strength of not only the national company but also the international Klöckner group. This enables sharing of global resources and a combined purchasing power that is one of the most powerful forces in the metals industry.

We are one business with a common culture offering a complete multi metal service which includes general steels, long and flat ferrous products, stainless and aluminium.

For further info on our comprehensive stock range visit our website: www.asdmetalservices.co.uk

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Notes	



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Notes



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Notes	
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	11KV 33KV CABLE JOINTS & CABLE TERMINATIONS
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	Thorne and Derrick UK Tel 0044 191 490 1547 Fax 0044 191 477 5371 Tel 0044 117 977 4647 Fax 0044 117 9775582

