



WILLIAM SMITH GROUP 1832

WILLIAM SMITH | SMITH SIGN & DISPLAY | ARCHITECTURAL™

Classification/Specification Sheet

All signs, circles, triangles and rectangles (on reverse) meet the following Criteria where applicable

All signs meet the following Criteria where applicable	Temporary Deflection	Support - Not Passively Safe	Support - Passively Safe
Bending Class PL3	Bending Class TDB4	Bending Class TDB4	Bending Class TDB5
Point Loads Class PL3	Torsion Class N/A	Torsion Class TDT4	Torsion Class TDT4
Dynamic Snow Loads Class DSL0			

Piercing of Signface Class P3 Edging of Signplates Class E2 Corrosion Protection Class SP4

Circular & Triangular Signs			
Size	3mm Thick Aluminium	3mm Thick Aluminium Composite (Dibond Traffic and BCP Traffic	1.25mm Thick Colorcoat Steel
Circular	Minimum Channel size & spacing		
300mm Diameter 450mm Diameter 600mm Diameter 750mm Diameter 900mm Diameter 1200mm Diameter	2 No Small (646) @ 217mm centres 2 No Small (646) @ 341mm centres 2 No Small (646) @ 500mm centres 2 No Small (646) @ 498mm centres 3 No Medium (645) @ 265mm centres 3 No Medium (645) @ 405mm centres	2 No Small (646) @ 217mm centres 2 No Small (646) @ 341mm centres 2 No Small (646) @ 500mm centres 2 No Small (646) @ 498mm centres 3 No Medium (645) @ 265mm centres 3 No Medium (645) @ 405mm centres	2 No Small (646) @ 217mm centres 2 No Small (646) @ 341mm centres 2 No Small (646) @ 500mm centres 2 No Small (646) @ 498mm centres 3 No Medium (645) @ 265mm centres 3 No Medium (645) @ 405mm centres
Triangular	Minimum Channel size & spacing		
600mm High 750mm High 900mm High 1200mm High	2 No Small (646) @ 437mm centres 2 No Medium (645) @ 450mm centres 3 No Medium (645) @ 415mm centres 3 No Medium (645) @ 445mm centres	2 No Small (646) @ 437mm centres 2 No Medium (645) @ 450mm centres 3 No Medium (645) @ 415mm centres 3 No Medium (645) @ 445mm centres	2 No Small (646) @ 437mm centres 2 No Medium (645) @ 450mm centres 3 No Medium (645) @ 415mm centres 3 No Medium (645) @ 445mm centres
NOTES: All the above signs are to have the various channel sections Bolhoff rivetted in position. All the Wind Loading calculations assume a mounting height of 2100mm. All calculations carried out using Buchanan Computing Signload Professional (BS EN12899-1:2007) All channel sections are to be as supplied by ASD Metals see enclosed documentation for full details.			

Sign Assembly: Signs supplied with channel stiffening fitted to the reverse should be affixed to the required structural supports, where possible using industry wide Stainless Steel or Aluminium clips /clamps using the necessary nuts, bolts and washers. If the use of standard clips isn't possible, the uses of Stainless Steel band or individual screwbands may be used, but it is the responsibility of the purchaser to determine the best fixing method to suit the purpose required.

Cleaning: Signs that require cleaning should be flushed with water, then washed with a dilute solution of mild, non-abrasive detergent and soft bristle brush or sponge. Avoid pressure that may damage the sign face. Flush with water following washing.

Do not use solvents to clean signs



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<u>Rectangular Sign Manufacturing Criteria - 3mm Aluminium Signs</u> All signs manufactured from 3mm thick Aluminium complete with aluminium channel stiffening (as supplied by ASD Metals) Bolhoff rivetted to the reverse All the following signs are to have the various channel sections Bolhoff rivetted in position. All the Wind Loading calculations assume a mounting height of 2100mm. All calculations carried out using Buchanan Computing SignLoad Professional (BS EN12899:2007) All channel sections are to be as supplied by ASD Metals . <u>Small Channel (ASD ref 646)</u> (Signs manufactured as below pass a Minimum WL 7) Used for all signs upto 900mm wide with a MAXIMUM channel spacing of 680mm Maximum edge distance for TOP & BTM channels to be inset = 35mm (Any plates over 750mm upto 1200mm in height would need 3 channels minimum) Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 8) Used on all signs between 901mm wide upto a Maximum width of 3000mm <u>Signs manufactured from a Single piece of Plate (Max 1500mm high)</u> For signs between 901 & 3000mm wide a minimum of 2 No Channels to be used with a maximum of 680mm between centres Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 8) <u>Signs manufactured in Modules (multiple horizontal sections)</u> For signs between 901 & 3000mm wide manufactured in horizontal modules with a minimum of 2 No channels to be used with a maximum spacing of 565mm and max edge of dist of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels 1200mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Large Channel (ASD ref 105)</u> (Signs manufactured as below pass a Minimum WL 9) Used on all signs over 3001mm wide and manufactured in modules with a minimum of 2 No channels used with a maximum spacing of 565mm and a maximum edge distance of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 5000mm wide mounted on a minimum of 3 No posts and signs from 5000 to 7000mm mounted on a minimum of 4 No posts	<u>Rectangular Sign Manufacturing Criteria - 3mm Composite Aluminium Signs (Dibond Traffic & BCP Traffic)</u> All signs manufactured from 3mm thick Composite Aluminium complete with aluminium channel stiffening (as supplied by ASD Metals) Bolhoff rivetted to the reverse All the following signs are to have the various channel sections Bolhoff rivetted in position. All the Wind Loading calculations assume a mounting height of 2100mm. All calculations carried out using Buchanan Computing SignLoad Professional (BS EN12899:2007) All channel sections are to be as supplied by ASD Metals <u>Small Channel (ASD ref 646)</u> (Signs manufactured as below pass a Minimum WL 7) Used for all signs upto 900mm wide with a MAXIMUM channel spacing of 680mm Maximum edge distance for TOP & BTM channels to be inset = 35mm (Any plates over 750mm upto 1200mm in height would need 3 channels minimum) Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 8) Used on all signs between 901mm wide upto a Maximum width of 3000mm <u>Signs manufactured from a Single piece of Plate (Max 1500mm high)</u> For signs between 901 & 3000mm wide a minimum of 2 No Channels to be used with a maximum of 680mm between centres Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 8) <u>Signs manufactured in Modules (multiple horizontal sections)</u> For signs between 901 & 3000mm wide manufactured in horizontal modules with a minimum of 2 No channels to be used with a maximum spacing of 565mm and max edge of dist of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels 1200mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Large Channel (ASD ref 105)</u> (Signs manufactured as below pass a Minimum WL 8) Used on all signs over 3001mm wide and manufactured in modules with a minimum of 2 No channels used with a maximum spacing of 565mm and a maximum edge distance of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 5000mm wide mounted on a minimum of 3 No posts and signs from 5000 to 7000mm mounted on a minimum of 4 No posts	<u>Rectangular Sign Manufacturing Criteria - 1.25mm Colorcoat Steel Signs (Corus Colorcoat)</u> All signs manufactured from 1.25mm thick Colorcoat Steel complete with aluminium channel stiffening (as supplied by ASD Metals) Bolhoff rivetted to the reverse All the following signs are to have the various channel sections Bolhoff rivetted in position. All the Wind Loading calculations assume a mounting height of 2100mm. All calculations carried out using Buchanan Computing SignLoad Professional (BS EN12899:2007) All channel sections are to be as supplied by ASD Metals <u>Small Channel (ASD ref 646)</u> (Signs manufactured as below pass a Minimum WL 5) Used for all signs upto 900mm wide with a MAXIMUM channel spacing of 565mm Maximum edge distance for TOP & BTM channels to be inset = 35mm (Any plates over 750mm upto 1200mm in height would need 3 channels minimum) Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 6) Used on all signs between 901mm wide upto a Maximum width of 3000mm <u>Signs manufactured from a Single piece of Plate (Max 1200mm high)</u> For signs between 901 & 3000mm wide a minimum of 2 No Channels to be used with a maximum of 565mm between centres Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Medium Channel (ASD ref 645 & 104)</u> (Signs manufactured as below pass a Minimum WL 5) <u>Signs manufactured in Modules (multiple horizontal sections)</u> For signs between 901 & 3000mm wide manufactured in horizontal modules with a minimum of 2 No channels to be used with a maximum spacing of 565mm and max edge of dist of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels 1200mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 2500mm wide mounted on a minimum of 2 No posts and signs from 2501 to 3000mm mounted on 3 No posts <u>Large Channel (ASD ref 105)</u> (Signs manufactured as below pass a Minimum WL 5) Used on all signs over 3001mm wide and manufactured in modules with a minimum of 2 No channels used with a maximum spacing of 565mm and a maximum edge distance of 35mm (Edge dist applicable to top / btm modules all central modules to have interlock channel fitted flush to the edges) 600mm High Modules - 2 No Channels 750mm High Modules - 3 No Channels 900mm High modules - 3 No Channels Assumptions: All calculations based upon signs being mounted at 2100mm to the underside of the sign, signs upto 5000mm wide mounted on a minimum of 3 No posts and signs from 5000 to 7000mm mounted on a minimum of 4 No posts
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