

# West Mercia Sections Data Sheet

Data sheet for West Mercia Sections Lath Products



## General Product Description

Product	Description
Galvanised	Zinc-coated steel coil. Hot-dip Galvanised steel, HDG, Galvatite. Plain carbon steel sheet that has been hot-dip coated with zinc alloy. Manufactured to the EU standard designations in EN10346:2015 for forming.
Aluminium	Aluminium alloy 1050 is a popular grade of aluminium for general sheet metal work where moderate strength is required. 1050 is known for its excellent corrosion resistance, high durability and reflective finish.
Stainless Steel	304 is the most versatile and widely used stainless steel, an austenitic grade that can be severely deep drawn. 316 is an austenitic grade, second only to 304, containing additional molybdenum improving corrosion resistance.
Plastisol	Plastisol LG is a thick, colour coated product with a leathergrain embossed surface, suitable for roller shutter door lath. Manufactured from a galv. substrate with the reverse side finished in a beige backside coating.
Laminate	Pre-coated laminated steel with a semirigid PVC (polyvinylchloride) film offering scratch resistant properties, for outdoor use suitable for roller shutter door lath. Manufactured from a galv. substrate, type DX51 D.
Aluzinc (RAL9006)	Aluzinc has two metallic constituents which create a corrosion resistance barrier effect, with aluminium present on the surface, along with the sacrificial protection of zinc, creating an attractive spangled silver finish.

Table 1 : Raw Material Specification

Product	Galvanised	Aluminium	Stainless Steel	Stainless Steel
Finish	Mill Finish	Mill Finish	Mill Finish	Mill Finish
Steel Designation	DX51 Z2	1050	304	316
Gauge	0.45mm - 1.2mm	0.8mm	0.7mm - 0.9mm	0.7mm - 0.9mm
Coating	275g/m <sup>2</sup>	-	-	-
Yield Strength	-	-	-	-
Tensile Strength	270 - 500	105 - 145	540 - 750	530 - 680
Elongation	22%	12%	45%	40%
Standard	EN10346:2015	EN573-3:2009	EN1088-2:2005	EN1088-2:2005

Table 2 : Raw Material Specification Pre-coated Steel

Product	LG Plastisol	Laminate	Aluzinc
Gloss	15-35	15 +5	n/a
Scratch Resistance	> 3500	n/a	n/a
UV Radiation Resistance	45N	n/a	n/a
Corrosion Resistance	RC5	n/a	0.3
Highest Op. Temperature	60°	55°	315°
Fire Classification	C-s2, d1	n/a	A1
Coating Thickness	200	100	25
Steel Designation	DX51 Z2	DX51 Z2	DX51 Z2
Zinc Coating	275g/m <sup>2</sup>	100g/m <sup>2</sup>	185g/m <sup>2</sup>
Primer	6	n/a	n/a
Standard	EN10169 + A1	EN10143 + 46	EN10346

## Tolerances

The tolerances of these metal coated products are in accordance with standard EN 10143:2015. If no special instructions are given on the order, the products delivered with the normal tolerances of this standard.

## Coatings

Zinc coating produced extends the service life of the end product by protecting the steel from corrosion, however the zinc coating is not used for aesthetics. For improved protection consider a colour coated product (Plastisol)

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Table 1 : Single Skin Galv Products Technical Data

Specification	3" 22swg	3" 20swg	3" 18swg	3" Perf.	3" Brickbond	3" Inline
Steel Designation	DX51 ZD+Z	DX51 ZD+Z	DX51 ZD+Z	DX51 ZD+Z	DX51 ZD+Z	DX51 ZD+Z
Surface Texture	Matt Surface	Matt Surface	Matt Surface	Matt Surface	Matt Surface	Matt Surface
Strip Width	128.5mm	128.5mm	126.5mm	128.5mm	128.5mm	128.5mm
Gauge	0.7mm	0.9mm	1.2mm	0.9mm	0.9mm	0.9mm
Profile Height (Quirk)	84mm	84mm	84mm	84mm	84mm	84mm
Profile Height (Face)	76mm	76mm	76mm	76mm	76mm	76mm
Weight Per Mtr	0.70kgs	0.90kgs	1.18kgs	0.71kgs	0.71kgs	0.71kgs
Weight Per Squ Mtr	9.08kgs	11.68kgs	15.31kgs	9.22kgs	9.22kgs	9.22kgs
Construction	Solid	Solid	Solid	7mm Oval	150 x 25mm	150 x 25mm
Part Number	322S01	320S01	318S01	322S02	320S03	320S02
Drawing Number	WMS028	WMS028	WMS028	WMS030	WMS029	WMS029

Table 2 : Single Skin Plastisol Products Technical Data

Specification	3" 22swg Pla.	3" 20swg Pla.	3" Perf. Pla.	3" Brick. Pa.	3" Inline Pla.
Steel Designation	P200 Plastisol	P200 Plastisol	P200 Plastisol	P200 Plastisol	P200 Plastisol
Surface Texture	Leathergrain	Leathergrain	Leathergrain	Leathergrain	Leathergrain
Strip Width	128.5mm	128.5mm	128.5mm	128.5mm	128.5mm
Gauge	0.7mm	0.9mm	0.7mm	0.7mm	0.7mm
Profile Height (Quirk)	84mm	84mm	84mm	84mm	84mm
Profile Height (Face)	76mm	76mm	76mm	76mm	76mm
Weight Per Mtr	0.70kgs	0.90kgs	0.71kgs	0.71kgs	0.71kgs
Weight Per Squ Mtr	9.08kgs	11.68kgs	9.22kgs	9.22kgs	9.22kgs
Construction	Solid	Solid	7mm Oval	150 x 25mm	150 x 25mm
Part Number	322S03	320S10	322S70	322S26	322S48
Drawing Number	WMS028	WMS028	WMS030	WMS029	WMS029

Table 3 : Performance Data (Single Skin Galv. Products Only)

Specification	3" 22swg	3" 20swg	3" 18swg	3" Perf.	3" Brickbond	3" Inline
Wind Load Class	Class 3	Class 5	Class 5	n/a	n/a	n/a
Max Clear Opening	6200mm	8000mm	10000mm	n/a	n/a	n/a
Wind Endlocks	√	√	√	n/a	n/a	n/a
Static Pressure (Pa)	1200	1300	1300	n/a	n/a	n/a
Testing Body	Exova	Exova	Exova	n/a	n/a	n/a
Report No.	WIL 327653	WIL 339149-1	WIL 339149-2	n/a	n/a	n/a
Standard	EN 12444	EN 12444	EN 12444	n/a	n/a	n/a
Thermal Trans. (Centre)	n/a	n/a	n/a	n/a	n/a	n/a
Thermal Trans. (Quirk)	n/a	n/a	n/a	n/a	n/a	n/a
Acoustic Rating	n/a	n/a	n/a	n/a	n/a	n/a
Air Permeability	n/a	n/a	n/a	19%	30%	30%

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Table 1 : Twin Skin Mill Finish Technical Data

Specification	100mm 22swg Twin Skin	100mm 20swg Twin Skin	100mm 18swg Twin Skin	100mm Aluminium	100mm S/S Stainless	75mm Twin Skin
Steel Designation	DX51 ZD+Z	DX51 ZD+Z	DX51 ZD+Z	1050 H14/H24	304 / 316	DX51 ZD+Z
Surface Texture	Matt Surface	Matt Surface	Matt Surface	Highly Reflective		Matt Surface
Strip Width	171mm	171mm	168mm	171mm	171mm	141mm
Gauge	0.7mm	0.9mm	1.2mm	0.8mm	0.7mm	0.7mm
Profile Height (Quirk)	115mm	115mm	115mm	115mm	115mm	90mm
Profile Height (Face)	88mm	88mm	88mm	88mm	88mm	66mm
Weight Per Mtr (Per Skin)	0.91kgs	1.21kgs	1.58kgs	0.29kgs	0.93mm	0.77kgs
Weight Per Squ Mtr (Panel)	18.20kgs	24.2kgs	31kgs	5.8kgs	18.65kgs	19.98kgs
Construction	Solid	Solid	Solid	Solid	Solid	Solid
Part Number	SUPA05	SUPA96	SUPA88	SUPA52	SUPA97	SUPA06
Drawing Number	WMS031	WMS031	WMS031	WMS031	WMS031	WMS031

Table 1 : Twin Skin Plastisol Technical Data

Specification	100mm Plastisol	75mm Plastisol
Steel Designation	P200 Plastisol	P200 Plastisol
Surface Texture	Leathergrain	Leathergrain
Strip Width	171mm	141
Gauge	0.7mm	0.7mm
Profile Height (Quirk)	115mm	115mm
Profile Height (Face)	88mm	66mm
Weight Per Mtr (Per Skin)	0.91kgs	0.77kgs
Weight Per Squ Mtr (Panel)	18.20kgs	19.98kgs
Construction	Solid	Solid
Part Number	SUPA88	SUPA77
Drawing Number	WMS031	WMS031

Table 3 : Performance Data Twin Skin Insulated Lath

Specification	100mm 22swg Twin Skin	75mm Twin Skin
Wind Load Class	Class 5	Class 5
Max Clear Opening	10000mm	10000mm
Wind Endlocks	√	√
Static Pressure (Pa)	2700	2700
Testing Body	Exova	Exova
Report No.	WIL327652	WIL327651
Standard	EN12444	EN12444
Thermal Trans. (Centre)	n/a	n/a
Thermal Trans. (Quirk)	4.3W/(m2k)	4.3W/(m2k)
Acoustic Rating	22db	n/a

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Table 1 : 95mm Insulated Lath Technical Data

Specification	WM95™ Galv	WM95™ Plastisol	WM95™ Laminate	WM95™ Aluzinc
Steel Designation	DX51 ZD+Z	P200 Plastisol	PVC Film	55% Ali. Zinc
Surface Texture	Matt Surface	Leathergrain	Textured	Smooth
Strip Width	307mm	307mm	307mm	307mm
Gauge	0.45mm	0.45mm	0.4mm	0.5mm
Profile Height (Quirk)	107mm	107mm	107mm	107mm
Profile Height (Face)	93mm	93mm	93mm	93mm
Weight Per Mtr	1.14kg	1.14kgs	1.02kgs	1.26kgs
Weight Per Squ Mtr (Panel)	11.99kgs	11.99kgs	10.73kgs	13.25kgs
Construction	Solid	Solid	Solid	Solid
Part Number	WM9501	WM9523	WM95106	WM9520
Drawing Number	WM076	WM076	WM076	WM076

Table 2 : Performance Data 95mm Insulated Lath

Specification	WM95™
Wind Load Class	Class 5
Max Clear Opening	10000mm
Wind Endlocks	√
Static Pressure (Pa)	1400
Testing Body	Exova
Report No.	WIL372059
Standard	EN12444
Thermal Trans. (Centre)	1.1W/(m2k)
Thermal Trans. (Quirk)	3.2W/(m2k)
Acoustic Rating	22db

Table 3 : WM95™ Wrap Charts

Opening Height		127mm	139mm	168mm
Allowance For Friction	3000mm	360	400	400
	3500mm	360	420	420
	4000mm	420	420	420
	4500mm	420	460	460
	5000mm	460	460	460
	5500mm	460	500	500
	6000mm	500	500	500

## Foam Density

The calculations provided are for indicative purposes only and relates to the lath component, it does not indicate performance of complete shutter door assemblies. The foam density below is based upon 1000mm of foam section. Density kg/m<sup>3</sup> = 41.096. Foam weight per mtr = 0.06

## Powder Coating

WM95™ chemical foam structure is powder coatable up to 180°, using our powder coatable endcaps.