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	Sheet metal of unalloyed steels, galvanized	Revision: 17	

Range of application: Production of fan nozzles

Technical terms of delivery: DIN EN 10346

Material:	Europe		America	Asia
	short name:	material number:	material	short name:
	DX54D+Z200-M-A ^{1) 3)}	1.0952		Z180NC05 (only used for Asian market)
	DIN EN 10346			ISO 3575

Technical terms of delivery:

¹⁾ coating finish: -M-A (small flower of zinc, usual surface)

³⁾ minimum value for the coating mass; a thicker coating mass is permissible in case of supply bottlenecks

Mechanical properties at 20°C:	Acc. to DIN EN 10346				
	Yield strength	Tensile strength	Elongation	Plastic strain ratio	Strain hardening exponent
	R _e [MPa]	R _m [MPa]	A [%]	r ₉₀ min.	n ₉₀ min.
min. requirements	120 bis 220	260 bis 350	36	1,6 ^{*2)}	0,18

^{*2)} For product thickness > 1,5 mm, the minimum r90-value reduced by 0,2 applies.

Chemical composition:	Acc. to DIN EN 10346, mass fraction in %					
	C max.	Si max.	Mn max.	P max.	S max.	Ti max.
DX54D	0,12	0,50	0,60	0,10	0,045	0,30

surface treatment (surface protection): "O": slightly oiled; surface chromated, Cr(VI)-free and free of substances according to RoHS directive.

Dimensions:

Europe/Asia (metric)

Coil:

Thickness [mm]	Width [mm]	Coil article code
1,5	1000±0,5	BLS150C1000.1
1,5	1250±0,5	BLS150C1250.1
1,5	1500±0,5	BLS150C1500.1
2,0	1000±0,5	BLS200C1000.1
2,0	1250±0,5	BLS200C1250.1
2,0	1500±0,5	BLS200C1500.1

sheet metals:

nominal thickness [mm]	size [mm]	Item number
1,5	1500x1880	BLS150Z999
1,5	1500x2280	BLS150Z998
1,5	1500x2680	BLS150Z997
1,5	1500x2800	BLS150Z996

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Date:	14.11.1994	Date:	28.02.2024	Date:	08.03.2024	17	Packaging altered
Department:	TE5	Department:	Series development	Dept./ position:	Head of Standards	16	Item no. for Mexico added.
Name:	K. Schlaf	Name:	Laszlo Farkasdi	Name:	Jürgen Rühl	15	Inner diameter coil min 460
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sheet metals:

nominal thickness [mm]	size [mm]	Item number
2,0	1250x1700	BLS200Z201.1
2,0	1250x1920	BLS200Z205.1
2,0	1250x2400	BLS200Z206.1
2,0	1250x2500	BLS200Z207.1
2,0	1250x3000	BLS200Z204.1
2,0	1500x1640	BLS200Z511.1
2,0	1500x2300	BLS200Z509.1
2,0	1500x2400	BLS200Z212.1
2,0	1500x3000	BLS200G.1

America (inch)

Thickness [mm]	Width [mm]	Coil article code
1,93	1219	BLS193C1219.1
1,93	1524	BLS193C1524.1

Permitted deviations from nominal dimensions:

For all dimensional variation (tolerances), which are not explicitly mentioned in this delivery specification applies:

- Europe EN 10143: Tolerances on dimensions and shape
- America
- Asia

Documents on material testing:

Inspection certificate 3.1 acc. to EN 10204. Delivery of an inspection certificate 3.1 together with the material to Güntner.

Marking:

Acc. to DIN EN 10346 (old: DIN EN 10142)

In addition, every package must be marked with the following:

- Gross weight of the package (incl. packaging)
- Net weight of the package (excl. packaging)

Packaging:

Sheet metal Stacked in packages, bound onto a **wooden pallet** by metal straps.
Max. permitted weight per package: 2.8 tons gross.

Coil: Strips spooled to rings on reels of cardboard and bound on wooden pallets.
Admissible weight per coil: 5 t
Inside diameter of a coil: 460-520 mm
Outside diameter of a coil: max. 1050 mm

The wooden pallet must be sturdy and suitable for multiple transport with a forklift truck.

General:

A change in materials, method or place of production requires the purchaser's approval.
Sufficient lead time must be taken into consideration.