

	GÜNTNER - SPECIFICATION	Sheet-No: SP 15-1	Sheet 1 / 3
	Sheet metal of unalloyed steels, galvanized	Revision: 30	

Range of application: Construction of heat exchanger casings, as well as general use, e.g. accessories.

Material:	Europe		America	Asia
	Short name	Material no.	Material no.	Short name
	DX51D+Z200-M-A	1.0917+Z200- M-A	See SP220-00	Z180NC02 (only used in Asia)
	DIN EN 10346 ^{*3)}	DIN EN 10346 ^{*3)}	See SP220-00 ^{*3)}	ISO 3575 ^{*3)}

^{*3)} Technical terms of delivery acc. to standard

minimum mechanical requirements of the base metal in transverse direction at 20°C:	minimum requirements acc. to DIN EN 10346				
	Yield strength	Tensile strength	Elongation	Plastic strain ratio	Strain hardening exponent
	Re min.	Rm	A80	r90 min.	n90 min.
	[MPa]	[MPa]	[%]	-	-
DX51D	180 ^{*1)}	270 bis 500	22	-	-
02 Drawing (only used in Asia)	180 ^{*1)}	270 up to 430	24	-	-

^{*1)} Additional requirement - deviation from the standard – see “Documents on material testing”

Chemical composition:	Acc. to DIN EN 10346, mass fraction in %					
	C max.	Si max.	Mn max.	P max.	S max.	Ti max.
DX51D	0,18	0,50	1,20	0,12	0,045	0,30
02 Drawing ^{*2)}	0,10	-	0,50	0,04	0,035	-

^{*2)} further elements see ISO 3575, 5.3.2 Product analysis, material only used in Asia

Delivery condition: Surface chromated, Cr (VI)-free and free of substances according to RoHS directive; not oiled

Dimensions: sheet metal acc. to DIN EN 10143

Created:		Revision No.:		30	Checked/Released:		Rev.	Comment:
Date:	14.11.1994	Date:	28.02.2024		Date:	08.03.2024	30	Packaging altered
Department:	TE5	Department:	Series development		Dept./ position:	Head of Standards	29	BLS500K added
Name:	K. Schlaf	Name:	Laszlo Farkasdi		Name:	Jürgen Rühl	28	BLS299C1500 - Coil added
This document was created electronically and is valid without signature.							© Güntner GmbH & Co. KG	



GÜNTNER - SPECIFICATION

Sheet-No: **SP 15-1**

Sheet 2 / 3

Sheet metal of unalloyed steels, galvanized

Revision: 30

Europe/Asia (metric)

thickness	Wall thickness deviation limits ^{*4)}	width	length (for sheet metal plate)	article code	
				sheet metal plate	Coil
[mm]	[mm]	[mm]	[mm]		
0,50	±0,06	1250	2500	BLS050M	BLS050C1250
		1500	3000	BLS050G	
1,00	±0,07 ±0,08	1000	2000	BLS100K	BLS100C1000
		1250	2500	BLS100M	BLS100C1250
1,00	±0,07 ±0,08 ±0,08 ±0,08	1000	2000	BLS100K	BLS100C1000
		1250	2500	BLS100M	BLS100C1250
		1500	3000	BLS100G	BLS100C1500
		1500	4000	BLS100Z514	
1,25	±0,11 ±0,13 ±0,13	1000	2000	BLS125K	BLS125C1000
		1250	2500	BLS125M	BLS125C1250 ¹
		1500	3000	BLS125G	BLS125C1500
1,50	±0,11 ±0,13 ±0,13 ±0,11	1000	2000	BLS150K	BLS150C1000
		1250	2500	BLS150M	BLS150C1250
		1500	3000	BLS150G	BLS150C1500
		1000	2500	BLSS1	
2,00	±0,14 ±0,14 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,15 ±0,16 ±0,16	1000	2000	BLS200K	BLS200C1000
		1000	2500	BLS200Z001	
		1219	3000	BLS200S9	
		1250	1700	BLS200Z201	BLS200C1250
		1250	2000	BLS200S30	
		1250	2500	BLS200M	
		1250	2600	BLS200Z202	
		1250	2700	BLS200Z203	
		1250	3000	BLS200Z204	
		1250	1920	BLS200Z205	
		1250	2400	BLS200Z206	
		1500	1640	BLS200S6	BLS200C1500
		1500	1700	BLS200Z510	
		1500	2425	BLS200S7	
		1500	2500	BLS200Z504	
		1500	2600	BLS200Z505	
		1500	2800	BLS200Z506	
		1500	2300	BLS200Z509	
		1500	3000	BLS200G	
		1500	5000	BLS200Z512	
		2000	4000	BLS200Z601	
		2000	5000	BLS200Z602	
2,99	±0,19 ±0,19 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20 ±0,20	56	500	BLS299Z001	
		1000	2000	BLS299K	
		1250	2500	BLS299M	
		1250	2600	BLS299Z201	
		1250	3230	BLS299Z202	
		1250	3910	BLS299Z203	
		1250	5070	BLS299Z204	
		1250	4490	BLS299Z205	
		1250	5170	BLS299Z206	
		1250	5670	BLS299Z207	
		1250	6440	BLS299Z208	
		1500	2600	BLS299Z504	BLS299C1500 ^{*5)}
		1500	2800	BLS299Z505	
		1500	3000	BLS299G	
		1500	3250	BLS299Z506	
		1500	4500	BLS299S73	
5,00	± 0,22	1000	2000	BLS500K	

^{*4)} acc. to DIN EN 10143, Table 2, Normal tolerances for a nominal width^{*5)} currently only used in Indonesia

	GÜNTNER - SPECIFICATION	Sheet-No: SP 15-1	Sheet 3 / 3
	Sheet metal of unalloyed steels, galvanized	Revision: 30	

America (inch)

thickness [mm]	width [mm]	length [mm] (for sheet metal plate)	article code	
			sheet metal plate	Coil
1,00	1000	2000	BLS100K	BLS100C1000
	1250	2500	BLS100M	BLS100C1250
	1500	3000	BLS100G	BLS100C1500
	1250	2500	BLS125M	BLS125C1250 ¹

admissible deviations from nominal dimensions For all dimensional variation (tolerances), which are not explicitly mentioned in this delivery specification applies:

- Europe DIN EN ISO 10143
- America
- Asia

Documents on material testing: Test report 2.2 acc. to EN 10204 has to be sent within the first sample report and within the annual recurring confirmation of this specification.

Marking: Acc. to DIN EN 10346 (old: DIN EN 10327)
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.
The wooden pallet must be sturdy and suitable for multiple transport with a forklift truck.

Coil: Strips spooled to rings on reels of cardboard and bound on wooden pallets.
Admissible weight per coil: 5 t
¹... Admissible weight per coil: 3 t
Inside diameter of a coil: 460-520 mm
Outside diameter of a coil: max. 1050 mm

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