

Below mentioned program overview gives an impression of the possibilities of GNS. Given the enormous diversity in dimensions there is only mention made of available qualities. The products are available in DIN and ASME / ANSI qualities and in many cases with certificates according to EN 10204, additional PMI tests etc.

Are you curious about the possibilities? Do not hesitate to contact us. We are always willing to help and would like to think along with you about your material needs. Our options will surprise you.

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1 Cold rolled sheet metal; former and current description

1.1.1 Cold rolled low carbon steel sheet for cold forming:

Material number	Description according EN 10130	Description according EU 130 (expired)	Description according DIN 1623 (expired)
1.0330	DC01	Fe P 01	St 12
1.0347	DC03	Fe P 03	RR St 13
1.0338	DC04	Fe P 04	St 14
1.0312	DC05	Fe P 05	St 15
1.0873	DC06	Fe P 06	IF 18 (SEW 095)

1.1.2 Cold rolled steel sheet with high yield strength for cold forming:

Material number	Description according EN 10268	Description according SEW 093 (expired)	Description according DIN
1.0480	H240LA	ZStE 260	-
1.0489	H280LA	ZStE 300	-
1.0548	H320LA	ZStE 340	-
1.0550	H360LA	ZStE 380	-
1.0556	H400LA	ZStE 420	-



1.1.3 Spring steel:

Material number	Description according EN 10132-4	Description according DIN 17222 (expired)	Description according AISI / ASTM
1.0535	-	C55	1055
1.0601	-	C60	1060
1.0603	-	C67	1070
1.0605	-	C75	1074
1.1203	-	Ck55	1055
1.1204	C55S	-	1055
1.1211	C60S	-	1060
1.1217	C90S	-	-
1.1221	-	Ck60	1060
1.1224	C125S	-	-
1.1231	C67S	Ck67	1070
1.1248	C75S	Ck75	1078
1.1269	C85S	Ck85	1086
1.1274	C100S	Ck101	1095
1.2002	125Cr2	125 Cr 1	-
1.2067	102Cr6	100 Cr 6	52100
1.2235	-	80 CrV 2	-
1.5026	56Si7	55 Si 7	9255
1.5634	75Ni8	-	-
1.8159	51CrV4	50 CrV 4	-

Explanation of abbreviations:

+A	=	Soft annealed
+LC	=	Annealed and lightly rolled
+AC	=	Annealed for the formation of spherical carbides
+CR	=	Cold rolled
+QT	=	Quenched and tempered



1.2 Electrolytically zinc coated cold rolled steel sheet for cold forming:

Material number	Description according EN 10152	Description according EU 152 / 130 (expired)	Description according DIN 17163 (expired)
1.0330	DC01+ZE	Fe P 01 GZ E	St 12 ZE
1.0347	DC03+ZE	Fe P 03 GZ E	RR St 13 ZE
1.0338	DC04+ZE	Fe P 04 GZ E	St 14 ZE
1.0312	DC05+ZE	Fe P 05 GZ E	St 15 ZE
1.0873	DC06+ZE	Fe P 06 GZ E	IF 18

1.3 Continuously hot-dip aluminium-silicon (AS) coated steel sheet:

Material number	Description according EN 10154	Description according EU 154 (expired)	Description according DIN
1.0226	DX51D+AS	Fe P 01 GA en Fe P 02 GA	-
1.0350	DX52D+AS	Fe P 03 GA	-
1.0355	DX53D+AS	Fe P 04 GA	-
1.0306	DX54D+AS	-	-
1.0309	DX55D+AS	-	-
1.0242	S250GD+AS	-	-
1.0244	S280GD+AS	-	-
1.0250	S320GD+AS	-	-
1.0529	S350GD+AS	-	-



1.4.1 Continuously hot-dip coated sheet of low carbon steels for cold forming (Sendzimir):

Material number	Description according EN 10327 (previously 10142)	Description according EU 142 (expired)	Description according DIN 17162-1 (expired)
1.0226	DX51D+Z DX51D+ZF	Fe P 02 G Z Fe P 02 G ZF	St 02Z
1.0350	DX52D+Z DX52D+ZF	Fe P 03 G Z Fe P 03 G ZF	St 03Z
1.0355	DX53D+Z DX53D+ZF	Fe P 05 G Z Fe P 05 G ZF	St 04Z
1.0306	DX54D+Z DX54D+ZF	Fe P 06 G Z Fe P 06 G ZF	-

1.4.2 Continuously hot-dip coated sheet of structural steels (Sendzimir):

Material number	Description according EN 10326 (previously 10147)	Description according EU 147 (expired)	Description according DIN 17162-2 (expired)
1.0241	S220GD+Z S220GD+ZF	Fe E 220 G Z Fe E 220 G ZF	-
1.0242	S250GD+Z S250GD+ZF	Fe E 250 G Z Fe E 250 G ZF	St E250-2Z
1.0244	S280GD+Z S280GD+ZF	Fe E 280 G Z Fe E 280 G ZF	St E280-2Z
1.0250	S320GD+Z S320GD+ZF	Fe E 320 G Z Fe E 320 G ZF	St E320-3Z
1.0529	S350GD+Z S350GD+ZF	Fe E 350 G Z Fe E 350 G ZF	St E350-3Z
1.0531	S550GD+Z S550GD+ZF	Fe E 550 G Z Fe E 550 G ZF	-



2 Hot rolled steel plates; former and current description

2.1.1 Continuously hot rolled low carbon steel plate for cold forming:

Material number	Description according EN 10111	Description according EU111.77 (expired)	Description according DIN 1614 (expired)
1.0332	DD 11	Fe P 11	StW 22
1.0398	DD 12	Fe P 12	RRStW 23
1.0335	DD 13	Fe P 13	StW 24
1.0389	DD 14	-	-

2.1.2 Hot rolled plate made of high yield strength steel for cold forming (thermomechanically rolled):

Material number	Description according EN 10149-2	Description according SEW 092 (expired)	Description according EU 149-2 (expired)
-	-	QStE 260 TM	Fe E 275-TM
1.0972	S315MC	QStE 300 TM	-
1.0976	S355MC	QStE 360 TM	Fe E 355-TM
1.0980	S420MC	QStE 420 TM	Fe E 420-TM
1.0982	S460MC	QStE 460 TM	-
-	-	-	Fe E 490-TM
1.0984	S500MC	QStE 500 TM	-
1.0986	S550MC	QStE 550 TM	Fe E 560-TM
1.8969	S600MC	QStE 600 TM	-
1.8976	S650MC	QStE 650 TM	-
1.8974	S700MC	QStE 690 TM	-



2.1.3 Hot rolled plate made of high yield strength steel for cold forming (normalized or normalized rolled):

Material number	Description according EN 10149-3	Description according SEW 092 (expired)	Description according EU 149-2 (expired)
1.0971	S260NC	QStE 260N	-
-	-	-	Fe E 275-TD
1.0973	S315NC	QStE 300 N	-
1.0977	S355NC	QStE 360 N	Fe E 355-TD
1.0981	S420NC	QStE 420 N	Fe E 420-TD
-	-	QStE 460 N	-
-	-	QStE 500 N	Fe E 490 TD

Explanation of abbreviations:

- S = Structural steel
- E = Engineering steel... followed by a three-digit number that represents the specified minimum Yield strength in N/mm² for the smallest thickness range
- D = Flat products for cold forming followed by one of the following letters:
- C for cold rolled products
 - D for hot-rolled products which will be cold deformed
 - X for products whose method of rolling is not declared followed by two symbols, which characterize the steel grade
- Z = Zinc coating
- ZA = Zinc-Aluminium coating
- AZ = Aluminium-Zinc coating
- ZF = Iron-Zinc coating
- AS = Aluminium-Silicon coating
- M = Rolling process, in which the last deformation in a certain temperature range is carried out so that a material state is obtained with certain properties that not only by a heat treatment can be attained or repeated.
- N = Rolling process, in which the last deformation in a certain temperature range is carried out so that a material state is obtained with certain properties that not by a heat treatment can be attained or repeated.
- C = Suitable for cold forming



2.1.4 Normalized or normalized rolled fine grain structural steel plate:

Material number	Description according EN 10025	Description according EU 113 (expired)	Description according DIN 17102 (expired)
1.0490 (previously 1.0486)	S275N	FeE285KGN	StE 285
1.0491 (previously 1.0488)	S275NL	FeE285KTN	TStE 285
1.0545 (previously 1.0562)	S355N	FeE355KGN	StE 355
1.0546 (previously 1.0566)	S355NL	FeE355KTN	TStE 355
1.8902	S420N	FeE420KGN	StE 420
1.8912	S420NL	FeE420KTN	TStE 420
1.8901 (previously 1.8905)	S460N	FeE460KGN	StE 460
1.8903 (previously 1.8915)	S460NL	FeE460KTN	TStE 460

2.1.5 Thermomechanically rolled fine grain structural steel plate:

Material number	Description according EN 10025	Description according EU 113 (expired)	Description according SEW 083 (expired)
1.8818	S275M	FeE275KGTM	-
1.8819	S275ML	FeE275KTTM	-
1.8823	S355M	FeE355KGTM	S355M
1.8834	S355ML	FeE355KTTM	S355ML
1.8925	S420M	FeE420KGTM	-
1.8836	S420ML	FeE420KTTM	-
1.8827	S460M	FeE480KGTM	S460M
1.8838	S460ML	FeE480KTTM	S460ML

Explanation of abbreviations:

- S = Structural steel, including fine grain structural steel
- S...N = Normalized or normalized rolled with minimum impact strength at a temperature not lower than -20 ° C
- S...NL = Normalized or normalized rolled with minimum impact strength at a temperature not lower than -50 ° C
- S...M = Thermomechanically rolled with minimum impact strength at a temperature not lower than -20 ° C
- S...ML = Thermomechanically rolled with minimum impact strength at a temperature not lower than -50 ° C



2.1.6 Hot rolled high yield strength structural steel plate in quenched and tempered condition:

Material number	Description according EN 10025	Description according EU	Description according Stahl Eisen Liste (expired)
1.8908	S460Q		-
1.8906	S460QL		TStE460V
1.8916	S460QL1		-
1.8924	S500Q		StE500V
1.8909	S500QL		TStE500V
1.8984	S500QL1		EStE500V
1.8904	S550Q		StE550V
1.8926	S550QL		TStE550V
1.8986	S550QL1		EStE550V
1.8914	S620Q		StE620V
1.8927	S620QL		TStE620V
1.8987	S620QL1		EStE620V
1.8931	S690Q		StE690V
1.8928	S690QL		TStE690V
1.8988	S690QL1		EStE690V
1.8940	S890Q		StE890V
1.8983	S890QL		TStE890V
1.8925	S890QL1		EStE890V
1.8941	S960Q		StE960V
1.8933	S960QL		TStE960V

Explanation of abbreviations:

- S = Structural steel, including fine grain structural steel
- S...Q = Impact strength at a temperature not lower than -20 ° C
- S...QL = Impact strength at a temperature not lower than -40 ° C
- S...QL1 = Impact strength at a temperature not lower than -60 ° C
- Z = Grade with improved properties perpendicular to the surface



2.1.7 Hot rolled wear resistant steel plate:

Material number	Description according DIN	Brand names such as
1.8702	20 MnCr 5 4	Dillidur 250 L
1.8703	20 MnCr 6 4	
1.8704	20 MnCr 6 5	
1.8705	21 MnCr 6 5	Dillidur 325 L
1.8711	21 MnCr 4 3	
1.8713	22 MnCr 4 3	
1.8714	24 MnCr 4 3	
1.8715	17 MnCr5 3	Dillidur 400 V / XAR 400 / Fora 400 / Brinair 400 Cr / Durostat 400
1.8720	18 MnCr 5 3	Dillidur 450 V
1.8721	26 MnCr 6 3	Dillidur 500 V / XAR 500 / Brinair 500 / Durostat 500
1.8731	25 MnCr 4 3	
1.8732	26 MnCr 4 3	
1.8733	27 MnCr 4 3	
1.8734	28 MnCr 4 3	
1.5069	36 MN 7	Duromax 200 U
1.5085	51 Mn 7	Duromax 265 U

Explanation of abbreviations:

- L = Hardened, cooled in air
- V = Hardened, cooled in water
- Cr = Hardened, cooled in air



2.2 Hot rolled steel plate for pressure purposes (boiler plate):

Material number	Description according EN 10028	Description according EU 28 (expired)	Description according DIN 17155 (expired)
1.0345	P235GH	Fe E 235 KWTD	H I
1.0425	P265GH	Fe E 265 KWTD	H II
1.0481	P295GH	Fe E 295 KWTD	17 Mn 4
1.0473	P355GH	FE E 355-2 KWTD	19 Mn 6
1.5415	16Mo3	16 Mo 3 KWTD	15 Mo 3
1.7335	13CrMo4-5	14 CrMo 4 5 KWTD	13 CrMo 4 4
1.7380	10CrMo9-10	10 CrMo 9 10 KWTD	10 CrMo 9 10

Material number	Description according EN 10028	Description according EU 113 (expired)	Description according DIN 17155 (expired)
1.0486	P275N	FeE285KGTD	WStE285
1.0487	P275NH	FeE285KWTD	WStE285
1.0488	P275NL1	FeE285KTTD	TStE285
1.1104	P275NL2	-	EStE285
1.0562	P355N	FeE355KGTD	StE355
1.0565	P355NH	FeE355KWTD	WStE355
1.0586	P355NL1	FeE355KTTD	TStE355
1.1106	P355NL2	-	EStE355
1.8905	P460N	FeE460KGTD	EStE460
1.8935	P460NH	FeE460KWTD	WStE460
1.8915	P460NL1	FeE460KTTD	TStE460
1.8918	P460NL2	-	EStE460

Explanation of abbreviations:

- P = Steel for pressure purposes
- P...GH = Non alloy steel for use at high operating temperature, 27 J impact strength at -20 °C
- P...N = Normalized or normalized rolled for use at high operating temperature, 30 J impact strength at -20°C
- P...NH = Normalized or normalized rolled for use at high operating temperature, 30 J impact strength at -20°C
- P...NL1 = Normalized or normalized rolled for use at high operating temperature, 27 J impact strength at -40°C
- P...NL2 = Normalized or normalized rolled for use at high operating temperature, 27 J impact strength at -50°C
- + N = Normalized or normalized rolled



2.3 Weathering steel plate (*CorTen*):

Material number	Description according EN 10025		Description according SEW 087 (expired)
1.8958	S235J0W	≡ CorTen A	-
1.8961	S235J2W	≡ CorTen A	WTSt 37-3
1.8962		≡ CorTen A	9CrNiCuP324
1.8945	S355J0WP	≡ CorTen B	-
1.8946	S355J2WP	≡ CorTen B	-
1.8959	S355J0W	≡ CorTen B	-
1.8963	S355J2G1W	≡ CorTen B	WTSt 52-3
1.8965	S355J2W	≡ CorTen B	WTSt 52-3
1.8967	S355K2G2W	≡ CorTen B	-

Explanation of abbreviations:

S	=	Structural steel
W	=	Improved atmospheric corrosion resistance
P	=	Greater phosphorus content
J0	=	27 J impact strength at a temperature of 0 °C
J2	=	27 J impact strength at a temperature of -20 °C
K2	=	40 J impact strength at a temperature of -20 °C
G1	=	Rimming steel (FU)
G2	=	Rimming steel not permitted (FN)
+ N	=	Normalized or normalized rolled