

Avrupa Sac Normlari

aa. Hot Rolled Steel-Forming & Drawing quality:				
Europe	U.K.	France	Germany	Italy
Euronorm 111	BS 1449	NFA 36/301	DIN 1614	UNI 5867
-	HR 15	0C	-	-
-	HR 14	-	-	-
FeP10	HR 4	1C	-	FeP10
FeP11	HR 3	2C	StW22	FeP11
FeP12	HR 2	-	StW23	FeP12
FeP13	HR 1	3C	StW24	FeP13
bb. Hot Rolled Staal-High Strength Grades (Structural Quality)				
Europe	U.K.	France	Germany	Italy

EN 10 025(1993)	BS 4360	NFA 35/501	DIN 17100	UNI 7070
S185	(BS1449)34/20	A34-2	-	Fe320
S235	40A	-	-	-
S235/JR	40B	E24-2	St37-2	Fe360B
S275	43A	-	-	-
S275JR	43B	E28-2	St44-2	Fe430B
-	(BS1449)43/25	-	-	-
S335	50A	-	-	-
S335JR	50B	-	-	Fe510B
S335JO	50C	E36-3	St52-3	Fe510C
cc. Cold Rolled (Reduced) Steel-Forming & Drawing quality:				
Europe	U.K.	France	Germany	Italy

EN 10 130(1991)	BS 1449	NFA 36/401	DIN 1623	UNI 5866
FeP01	CR4	C	St12	FeP01
FeP03	CR3	E	St13	FeP02
-	CR2	-	-	-
FeP04	CR1	ES	RRSt14	FeP04
FeP05	-	-	-	-
FeP06	-	-	-	-
Surface Finish				
A	GR(General Purpose)	X	3	MA
B	FF(Full Finish	Z	5	MB
dd. Hot Dipped Galvanized (Zinc Coated)Steel-Forming&Drawing Quality				

Europe	U.K.	France	Germany	Italy
EN 10 142(1991)	BS2989	NFA 36-321	DIN 17162	UNI 5753
-	Z1	-	-	Fe00GZ
DX51D+Z/ZF	Z2	GC	St02Z	FeKPGZ
DX52D+Z/ZF	Z3	GE	St03Z	FeP01GZ
DX53D+Z/ZF	Z5	GES	St05Z	FeP03GZ
DX54D+Z/ZF	-	-	-	-
*EN(same spec):DX51D+Z/ZF=FePO2G / DX52D+FePO3G/DX 53D+Z/ZF=FeP06g				
ee. Hot Dipped Galvanized (Zinc Coated)Steel-High Strength Grades(Structural Quality				
Europe	U.K.	France	Germany	Italy
EN 10 147(1992)	BS2989	NFA 36-322	DIN 17162	UNI 5753
S220GD+Z/ZF	Z22	C230	-	Fe34GZ

S250GD+Z/ZF	Z25	C250	StE250Z	Fe37GZ
S280GD+Z/ZF	Z28	C280	StE280Z	Fe42GZ
S320GD+Z/ZF	-	-	-	-
S350GD+Z/ZF	Z35	C350	StE350Z	-
S550GD+Z/ZF	Z55	C550	-	-

*EN (same spec):S220GD+Z/ZF=FeE220G / S250GD+Z/ZF=FeE250G / S280GD+Z/ZF=FeE320G / S320+Z/ZF=FeE320G /S350GD+Z/ZF=FeE350G / S55GD+Z/ZF=FeE550G

Surface Finish

Europe	U.K.	France	Germany	Italy
En 10 142/147	BS2989	NFA 36-322	DIN 17162	UNI 5753
NA	Spangle N	NA	NA	Spangle
MA	Min.Spangle m	MA	MA	Min.Spangle

MB	Smooth	B	B	Skin Passed
MC	Extra Smooth XS	C	C	-
RA	Regular-R(IZ)	RA	RA	-
RB	Smooth-S(IZ)	RB	RB	-
RC	Extra Smooth XS(IZ)	RC	RC	-

Coating Thickness

Europe	U.K.	France	Germany	Italy
En 10 142/147	BS2989	NFA 36-322	DIN 17162	UNI 5753
ZF100	IZ 100 (100g/sqm)	Zf100	-	-
-	IZ 180 (180g/sqm)	Zf180	-	-
ZF140	-	-	-	-
Z100	G100 (100g/sqm)	Z100	100	Z100

Z140	-	-	-	-
Z200	G 200 (200g/sqm)	Z200	200	Z200
Z225	-	-	-	-
Z275	G 275 (275g/sqm)	Z275	275	Z275
Z350	G 350 (350g/sqm)	Z350	350	Z350
Z450	G 450 (450g/sqm)	Z450	450	Z450
Z600	G 600 (600g/sqm)	Z600	600	Z600

aa. Hot Rolled Steel-Forming & Drawing quality:				
Spain	Sweeden	Japan	U.S.A.	U.S.A.
UNE 36-086/11		JIS G 3131	ASTM	SAE
-	-	-	-	-

AP10	-	-	A569	-
-	-	SPHC	-	1010
AP11	-	SPHD	-	1018
AP12	-	-	A621	1016
AP13	-	SPHE	A622	1016(A1 Killed)

bb. Hot Rolled Staal-High Strength Grades (Structural Quality)

Spain	Sweden	Japan	U.S.A.	U.S.A.
UNE 36-080/11	SIS	JIS G 3101	ASTM	SAE
A330	-	SS34	A283B	-
A370	14-13-12E	-	A283C	-
-	-	-	-	1010

-	14-13-12E	-	A570Gr40	1018
-	-	-	-	1016
-	-	SS41	A36/A283D	1016(Al Killed)
A450	14-21-72	SS50	A572Gr50	-
-	-	-	-	-
-	-	-	-	-
cc. Cold Rolled (Reduced) Steel-Forming & Drawing quality:				
Spain	Sweeden	Japan	U.S.A.	U.S.A.
UNE 36-086	SIS	JIS G 3141	ASTM	SAE
AP01	14--11--42	SPCC	A366	1010
AP02	-	SPCD	-	1008
AP03	14--11--46	SPCE	A619	1006

AP04	14--11--47	SPCEN	A620	1006(A1 Killed)
-	-	-	-	-
-	-	-	-	-
Surface Finish				
X	-	-	CLASS2	
Z	-	-	CLASS1	
dd. Hot Dipped Galvanized (Zinc Coated)Steel-Forming&Drawing Quality				
Spain	Sweeden	Japan	U.S.A.	U.S.A.
UNE 36-310	SIS	JIS G3302	ASTM A 653M	SAE
-	-	SGCC	CQ	
Grade 41	14_11_51	SGCD1	LFQ	
Grade 43	14_11_52	SGCD2	DQ	

Grade 44	14_11_57	SGCD3	DQSK	
-	-	-	-	

*EN(same spec):DX51D+Z/ZF=FePO2G / DX52D+FePO3G/DX 53D+Z/ZF=FeP06g

ee. Hot Dipped Galvanized (Zinc Coated)Steel-High Strength Grades(Structural Quality

Spain	Sweeden	Japan	U.S.A.	U.S.A.
UNE 36-310	SIS	JIS G3302	ASTM A 653M	SAE
-	-	SGC 340	Grade-230(A)	
-	14,12,70	SGC 400	Grade-245(B)	
-	14,12,60	SGC 440	Grade-275(C)	
-	-	SGC 490	Grade-345(D)	
-	14,12,22	-	-	
-	-	SGC 570	Grade-550(E)	

*EN (same spec):S220GD+Z/ZF=FeE220G / S250GD+Z/ZF=FeE250G /
 S280GD+Z/ZF= FeE320G / S320+Z/ZF=FeE320G /S350GD+Z/ZF=FeE350G /
 S55GD+Z/ZF=FeE550G

Surface Finish

Spain	Sweeden	Japan	U.S.A.	U.S.A.
UNE 36-310	SIS	JIS G3302	ASTM A 653M	SAE
N	N	Reg.Spangle	Reg.Spangle	
M	M	Min.Spangle	Min.Spangle	
S	S	Skin Passed	-	
E	-	-	-	
-	-	-	Regular	
-	-	-	-	
-	-	-	-	

Coating Thickness

Spain	Sweden	Japan	U.S.A.	U.S.A.
UNE 36-310	SIS	JIS G3302	ASTM A 653M	SAE
Zf100	-	-	Zf100	
Zf180	-	-	Zf180	
-	-	-	-	
Z100	Z100	Z12(120g/sqm)	Z90	
-	-	-	-	
Z200	Z200	Z18(180g/sqm)	Z180	
-	-	Z22(220g/sqm)	-	
Z275	Z275	Z27(270g/sqm)	Z275	
Z350	Z350	Z35(350g/sqm)	Z350	

Z450	-	Z45(450g/sqm)	Z450	
Z600	-	Z60(600g/sqm)	Z600	