

Sampag anchor channels and accessories comply with the specifications in Table 5.1. Raw material and components in other international standards or specifications will meet at least minimum requirements of the stated specification.

Channels cold-formed (CR) from strips: 28/15, 38/17, 40/25, 41/22, and 49/30.

Channels hot-rolled (HR) from billets: 41/25, 51/31 and 53/36.

Manufacturing tolerances: Short lengths < 550mm +/- 3mm
 Continuous lengths ≤ 6050mm +/- 6mm

Table 5.1 Material Specifications

Sampag Components	Standards	Mechanical Properties	
		Min.Yield Strength [Mpa]	Min.Ultimate Strength [Mpa]
Channels			
Carbon Steel, CR	S235JR, EN 10025	235	340
Carbon Steel, HR	S235JRG2, EN 10025	235	360
SS 304 [A2]	W 1.4301, EN 10088	195	500
SS 316 [A4]	W 1.4401/1.4571, EN 10088	240	530
Anchors			
Carbon Steel	S235JRG2, EN 10025	235	360
SS 316 [A4]	W 1.4401/1.4571, EN 10088	240	530
T-Bolts			
Grade 4.6	Strength 4.6, EN ISO 898-1	240	400
Grade 8.8	Strength 8.8, EN ISO 898-1	640	800
SS A4-50	A4-50, EN ISO 3506-1	210	500
SS A4-70	A4-70, EN ISO 3506-1	450	700
Channel Nuts			
Carbon Steel	S235JR, EN 10025	235	360
SS 316 [A4]	W 1.4401/1.4571, EN 10088	240	530
Serrated Nuts			
Carbon Steel*	AISI/SAE 1015	355	550
SS 316 [A4]	W 1.4401/1.4571, EN 10088	240	530

* Case-hardened.

Table 5.2 Finish Standards

Finish	Standard	Thickness
Hot-Dipped Galvanizing	EN ISO 1461	Coating ≥ 50 m m
Electro Zinc-Plating	EN 12329	Coating ≥ 5 m m
A4	Mill finish 1D. Degreased and descaled.	

The following list of corresponding materials and components is based upon mechanical properties and performance. This information is provided for reference purposes and should not be construed as an endorsement.

Table 5.3 Corresponding Steels

European Community EN		China GB	France NF*	Germany DIN*	Japan JIS	United Kingdom BS*	U.S.A. ASTM / AISI
S235JR	1.0037	Q235A	E24-2	St 37-2	SS400	HR 37/23	A1011, Gr.33
S235JRG2	1.0038	Q235B	E24-2NE	RSt 37-2	SS400	40B	A283, Gr.36
S275JR	1.0044	Q275	E28-2	RSt 44-2	SS490	43B	A283, Gr.40
X10CrNi 18-8	1.4301	0Cr18Ni9	Z7CN18.09	W1.4301	SUS304	304S15	304
X5CrNiMo(17-12-2)	1.4401	0Cr17Ni12Mo2	Z7CND17.12.02	W1.4401	SUS316	316S31	316
X6CrNiMoTi(17-12-2)	1.4571	0Cr18Ni12Mo2Ti	Z7CNDTi17.12.02	W1.4571	SUS316Ti	320S31	316Ti

* Former national designations.

Table 5.4 Fasteners

Europe	North America
EN ISO 898-1,2 Class 4.6 Class 8.8	ASTM, F568 Grade 4.6 (A307) Grade 8.8 (A327)
EN ISO 3506-1 A4-50 A4-70	ASTM, F738M A4-50, AF A4-70, CW

Table 5.5 Equivalent Coating Standards
(In terms of performance in salt-spray tests)

Method of Coating	European Norm	North America	Australia
Hot Dipped Galvanizing [HDG]	EN ISO 1461 (BS 729)*	ASTM A123 or A153	AS/NZS 4680
Mechanical Galvanizing [MG]	No equivalent	ASTM B695	No equivalent
Electro Zinc- Plating [ZP]	EN 1239 (BS 1706)*	ASTM B633	AS 1789

* Former British designation.