



STOMANA
INDUSTRY S.A.

 SIDENOR GROUP

Quarto plates program





The integrated plant of STOMANA Industry, produces high quality of steel, rolled in a modern reverse plate mill, ensuring high quality during the whole process.

STOMANA supplies a wide range of plate products to a large number of markets and applications. These include construction, machinery, energy and power, shipbuilding, transportation, mining.

Quarto plates are produced in a variety of sizes and specifications according to the European and international standards. Also, customized product solutions are possible based on customer needs.

Standards and grades

Hot-rolled plates steel grade standards	Grades	Applications
1. Structural steels		
1.1 Non alloyed EN10025-2	S235, S275, S355 JR, J0, J2, K2, JRC ⁽¹⁾ , J0C ⁽¹⁾ , J2C ⁽¹⁾ , K2C ⁽¹⁾ +AR, +N	General structural applications
1.2 ASTM non-alloyed structural steels		
1.2.1. ASTM A283	A 283 Gr.C, A 283 Gr.D	
1.2.2. ASTM A36	A36	
1.3 ASTM low-alloyed structural steels		
1.3.1. ASTM A572	A572 Gr.50	
1.3.2. ASTM A573	A573 Gr.70	
1.3.3. ASTM A709	A709 Gr.50	
2. Weldable fine grain structural steels		
2.1 EN10025-3	S355N	Ideal for welded structures
3. Corrosion resistant steels		
3.1 EN10025-5	S235, S355 J0W, J2W	For corrosion resistant structures, bridges, architectural applications
3.2 ASTM A588	A588 Gr.A	
4. Steels for pressure vessels		
4.1 Steels with specified properties at elevated temperatures EN10028-2	P235GH, P265GH, P295GH ⁽¹⁾⁽²⁾ , P355GH ⁽¹⁾⁽²⁾ , 16Mo3 ⁽³⁾⁽⁵⁾	For boilers and pressure vessels at high and atmospheric temperature
4.2 Weldable fine grain steels EN10028-3 ⁽¹⁾⁽²⁾	P275NH, P355NH, P355N	
4.3 ASTM A516 ⁽⁴⁾	A516 Gr.55, A516 Gr.60 A516 Gr.65, A516 Gr.70	
5. Shipbuilding steels		
5.1 Normal strength naval steels	AB-A, LR-A, BV-A, GL-A, DNV-A, ASTM A131-A, DNV-B, A131-B (up to 40mm)	For naval and off-shore projects, hull construction, ship repairs
5.2 High strength naval steels	AH-32, DH-32, AH-36, DH-36 (LRS up to 25mm, ASTM A131 up to 40mm)	
6. Steels for quenching & tempering		
6.1 Non-alloyed steels EN10083-2 ⁽³⁾	C40, C45, C45E	For improved wear and fatigue resistance, machinery, yellow goods

(1) Up to 30mm thickness

(2) Without TRD101 / 3.1 certificate or with TRD 101 / 3.2 certificate

(3) Only in As Rolled condition

(4) Ordered without impact test values

(5) Without PED/97/23/EC appendix 1 chapter 4.3 approval

+N: Normalizing rolling or controlled rolling where applicable

Other grades and specifications not listed above, could be produced upon request



Stomana plate sizes & weight

Width 1,500mm	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
7	330	412	495	577	659	742	824	907	989
8	377	471	565	659	754	848	942	1036	1130
10	471	589	707	824	942	1060	1178	1295	1413
12	565	707	848	989	1130	1272	1413	1554	1696
14	659	824	989	1154	1319	1484	1649	1813	1978
15	707	883	1060	1236	1413	1590	1766	1943	2120
16	754	942	1130	1319	1507	1696	1884	2072	2261
18	848	1060	1272	1484	1696	1908	2120	2331	2543
20	942	1178	1413	1649	1884	2120	2355	2591	2826
22	1036	1295	1554	1813	2072	2331	2591	2850	3109
25	1178	1472	1766	2061	2355	2649	2944	3238	3533
28	1319	1649	1978	2308	2638	2967	3297	3627	3956
30	1413	1766	2120	2473	2826	3179	3533	3886	4239
35	1649	2061	2473	2885	3297	3709	4121	4533	4946
40	1884	2355	2826	3297	3768	4239	4710	5181	5652
45	2120	2649	3179	3709	4239	4769	5299		
50	2355	2944	3533	4121	4710	5299			
55	2591	3238	3886	4533	5181				
60	2826	3533	4239	4946	5652				
Thickness (mm)	Length (mm)								

Width 2,000mm	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
7	440	550	659	769	879	989	1099	1209	1319
8	502	628	754	879	1005	1130	1256	1382	1507
10	628	785	942	1099	1256	1413	1570	1727	1884
12	754	942	1130	1319	1507	1696	1884	2072	2261
14	879	1099	1319	1539	1758	1978	2198	2418	2638
15	942	1178	1413	1649	1884	2120	2355	2591	2826
16	1005	1256	1507	1758	2010	2261	2512	2763	3014
18	1130	1413	1696	1978	2261	2543	2826	3109	3391
20	1256	1570	1884	2198	2512	2826	3140	3454	3768
22	1382	1727	2072	2418	2763	3109	3454	3799	4145
25	1570	1963	2355	2748	3140	3533	3925	4318	4710
28	1758	2198	2638	3077	3517	3956	4396	4836	5275
30	1884	2355	2826	3297	3768	4239	4710	5181	5652
35	2198	2748	3297	3847	4396	4946	5495		
40	2512	3140	3768	4396	5024	5652			
45	2826	3533	4239	4946	5652				
50	3140	3925	4710	5495					
55	3454	4318	5181						
60	3768	4710	5652						
Thickness (mm)	Length (mm)								

Width 2,500mm	4,000	5,000	6,000	7,000	8,000	9,000	10,000	11,000	12,000
7	550	687	824	962	1099	1236	1374	1511	1649
8	628	785	942	1099	1256	1413	1570	1727	1884
10	785	981	1178	1374	1570	1766	1963	2159	2355
12	942	1178	1413	1649	1884	2120	2355	2591	2826
14	1099	1374	1649	1923	2198	2473	2748	3022	3297
15	1178	1472	1766	2061	2355	2649	2944	3238	3533
16	1256	1570	1884	2198	2512	2826	3140	3454	3768
18	1413	1766	2120	2473	2826	3179	3533	3886	4239
20	1570	1963	2355	2748	3140	3533	3925	4318	4710
22	1727	2159	2591	3022	3454	3886	4318	4749	5181
25	1963	2453	2944	3434	3925	4416	4906	5397	
28	2198	2748	3297	3847	4396	4946	5495		
30	2355	2944	3533	4121	4710	5299			
35	2748	3434	4121	4808	5495				
40	3140	3925	4710	5495					
45	3533	4416	5299						
50	3925	4906							
55	4318	5397							
60	4710								
Thickness (mm)	Length (mm)								

Standard production
 Upon confirmation
 Only in low strength grades (S235, GrA etc)
 Only in +AR condition
 Min order 4 pcs

Standard sizes

Any combination of the below
Width: 1500mm, 2000mm and 2500mm
Length: 4000/6000/8000/10000/12000mm

Thickness >40mm upon confirmation

Non-standard sizes

The mill can produce special cut-to-length sizes (width and length) upon request.
 Other thicknesses than the ones listed above can be produced.

Small formats

(WxL): 1000mm x 2000mm
 (WxL): 1250/1500/2000/2500mm x 3000mm

Units:

mm or inch

Technical delivery conditions

General

- Chemical properties on ladle heat analysis as per ordered standard
- Mechanical properties according to ordered standards
- Sizes and tolerances according to EN10029 or relevant standards
- Surface properties as per EN 10163-2, mill finish
- Standard four - cut edges

Additional requirements

- Suitability for hot-dip zinc-coating
- Suitability for cold forming
- Vacuum degassed steel
- Special chemistry requirements
- Additional mechanical tests
- Special tolerances on size and flatness
- Other tests

Ultrasonic testing

- Ultrasonic testing by qualified personnel according to EN 10160 or equivalent standards
- E0/S0, E1/S1, E2/S2 compliance or other combinations depending on thickness and grade
- Ultrasonic test full reports

Marking

- Standard paint marking, indicating: country of origin, Stomana logo, size, quality standard, plate number and heat number, CE mark acc. to EN10025-1, if applicable
- Standard hard stamping, indicating: plate number, grade, Stomana logo
- Color marking upon request, on the edges of the plates, one or two sides

Quality Certificates

- Mill's quality certificates according to the material standards. Certificate type 2.2, 3.1 or 3.2 according to EN 10204
- Certification by Lloyds Register, Germanischer Lloyd, DNV, ABS, Bureau Veritas for shipbuilding grades
- Certification for multiple grade: single, double, triple certification
- Third party inspection can be arranged upon request

Packing

- Standard loose packing
- In bundles if requested with wooden separation

Satisfied partners

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