

EN 10210-1, 2

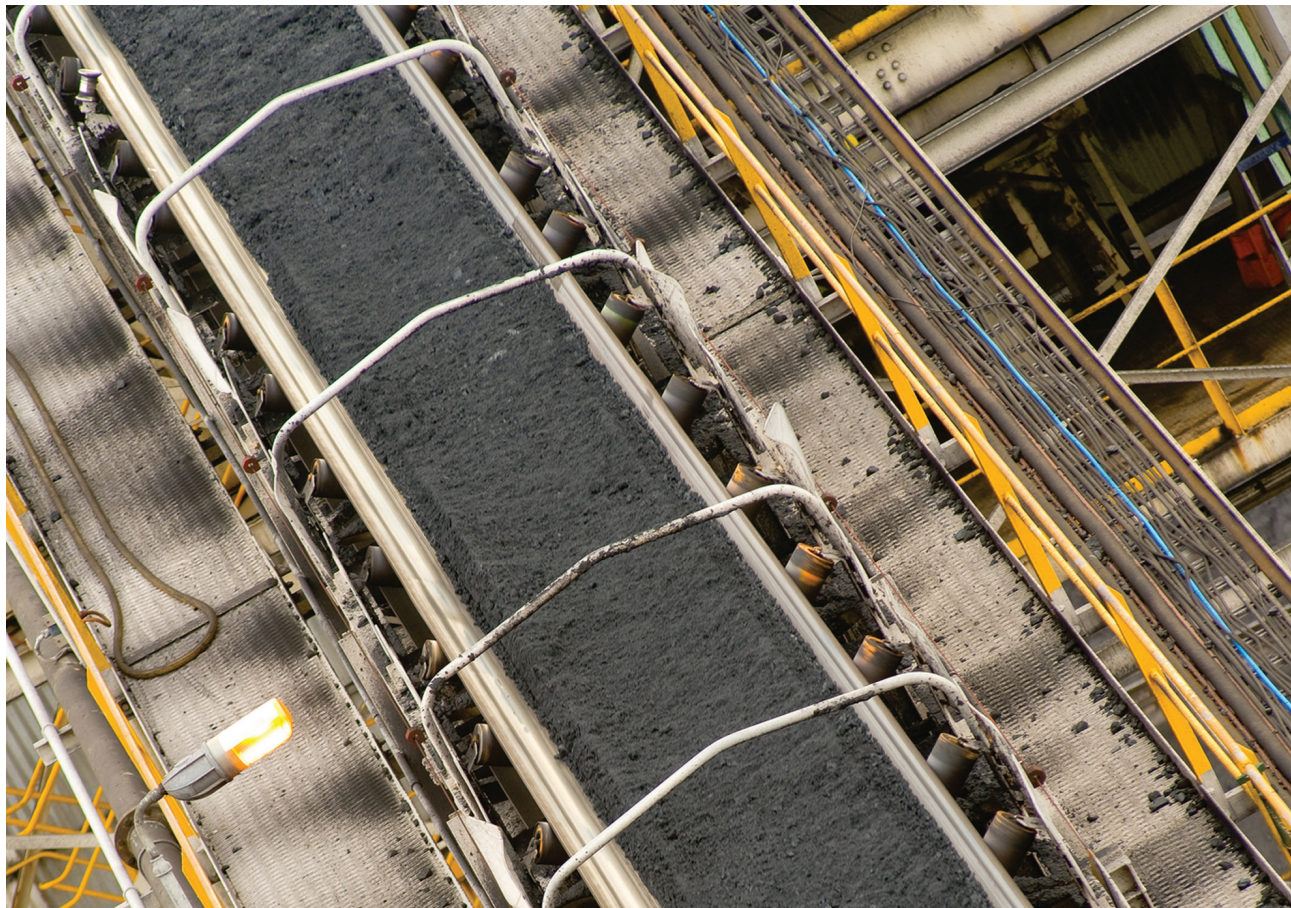
Hot finished structural hollow section of non-alloy and fine grain steels

Chemical composition

Steel grade	Elements content, %, max.							Maximal carbon equivalent value CEV %		
	C For nominal wall thickness, mm		Si	Mn	P	S	N	For nominal wall thickness, mm		
	≤40	>40						≤16	>16 ≤40	>40 ≤65
S235JRH	0,17	0,20	-	1,40	0,040	0,040	0,009	0,37	0,39	0,41
S275J0H	0,20	0,22	-	1,50	0,035	0,035	0,009	0,41	0,43	0,45
S275J2H	0,20	0,22	-	1,50	0,030	0,030	-	0,41	0,43	0,45
S355J0H	0,22	0,22	0,55	1,60	0,035	0,035	0,009	0,45	0,47	0,50
S355J2H	0,22	0,22	0,55	1,60	0,030	0,030	-	0,45	0,47	0,50
S355K2H	0,22	0,22	0,55	1,60	0,030	0,030	-	0,45	0,47	0,50

Mechanical properties

Steel grade	Yield strength, R _{eh} , MPa				Tensile strength R _m , MPa	Elongation A, %			Impact test, KV, J		
	Nominal wall thickness mm					Nominal wall thickness, mm			Test temperature, °C		
	≤16	>16 ≤40	>40 ≤63	>63		≤40	>40 ≤63	>63	-20	0	+20
	Not less					Not less					
S235JRH	235	225	215	215	360-510	26	25	24	-	-	27
S275J0H	275	265	255	245	410-560	23	22	21	-	27	-
S275J2H	275	265	255	245	410-560	23	22	21	27	-	-
S355J0H	355	345	335	325	470-630	22	21	20	-	27	-
S355J2H	355	345	335	325	470-630	22	21	20	27	-	-
S355K2H	355	345	335	325	470-630	22	21	20	40	-	-



Outside diameter, mm	3,2	4,0	5,0	6,3	8,0	10,0	12,5	14,2	16,0	20,0	25,0	30,0	32,0	36,0	40,0	45,0	50,0	55,0	60,0	65,0	
33,7																					
42,4																					
48,3																					
60,3																					
76,1																					
88,9																					
101,6																					
114,3																					
139,7																					
168,3																					
177,8																					
193,7																					
219,1																					
229,0																					
244,5																					
254,0																					
267,0																					
273,0																					
323,9																					
355,6																					
368,0																					

Dimensional tolerances

Outside diameter permissible deviation	Wall thickness permissible deviation
±1 % (but not less than ±0.5 mm and not more than ±10 mm)	- 10 %, + 15%

Lengths

Pipes are supplied with lengths according to standard requirements.
Any lengths different from the standard ones are subject to additional negotiations.

Protection

Pipes are supplied:

- black and bare
- external varnished with black or clear lacquer
- oiled

Upon request pipes ends are protected with plastic caps.

Marking

Pipes are supplied with marking according to standard and customer request.
Marking is painted and/or hard stenciled on pipe ends. The same data, as well as additional information according to customer's request, are indicated on the bundle tags.

Certification

Pipes are supplied with 3.1. inspection certificate, in conformity with EN 10204.