

Mechanical

Fact sheet

	Type	Standard	Size		Grades/Quality	Special coatings and protection
			Outside diameter	Wall thickness		
Czech Karviná	Cold drawn welded tubes	EN 10305 - 2	10.0mm - 120.0mm	1.0mm - 6.0mm	E155, E195, E235, E275, E355	1. Hot Dip Galvanizing EN 10240 (A,1 - zinc coating quality: for water for human consumption) 2. Painting (outside surface) Water based paint Denakor HG: RAL 0000 (transparent), RAL 3011 Đ, RAL 5005 Đ, RAL 6005 Đ, RAL 7001 Đ, RAL 7012 Đ, RAL 9002 Đ* 3. Temporary corrosion protection Shell Calina (6 months/indoor) Konkor 101 (6 months/indoor) Konzervol (2 months/indoor) 4. Bonderizing Fe-Zn phosphate (Granodraf)
	Welded cold sized tubes	EN 10305 - 3	8.0mm - 70mm	0.5mm - 3.2mm	E155, E195, E235, E275, E355	
	Welded cold sized non-round tubes	EN 10305 - 5	H = 10mm - 150mm	0.5mm - 4.0mm	E155, E195, E235, E275, E355	
	Tubes for construction	EN 39-3, EN 39-4	48.3mm	3.2mm & 4.0mm	S235GT	
		EN 10210-1, EN 10210-2	OD=10mm - 150mm H = 10mm - 120mm	0.5mm - 5.0mm	S235JRH, S275J0H, S355J0H	
		EN 10219-1, EN 10219-2	OD=10mm - 150mm H = 10mm - 120mm	0.5mm - 4.0mm	S235JRH, S275J0H, S355J0H	
	Tubes for piping and pressure	EN 10217-1 (Victaulic), EN 10220	OD = 17.2mm - 114.3mm	1.8mm - 5.0mm	P195TR1&2, P235TR1&2, P265TR1&2	
Tubes for gas transportation	EN 10208-1, EN 10220	OD = 17.2mm - 114.3mm	1.8mm - 5.0mm	L210GA, L235GA, L245GA, L290GA, L360GA		
	EN 10255 (Victaulic)	DN = 0.625 - 4.0" OD = 17.2mm - 114.3mm	H, M, L, L1, L2	S195T		
Cold rolled steel sections	EN 10162	H = 6.0mm - 150.0mm	0.5mm - 6.0mm	S235JRC		
France Chevillon	Welded cold sized tubes	EN 10305-3-5, ASTM 513, JIS	8.0mm - 50.0mm	0.6mm - 3.0mm	Customer specific	Customer specific
France Hautmont	Welded cold sized tubes	EN 10305-3-5, ASTM 513, JIS	20.0mm - 135.0mm	0.8mm - 6.0mm	Customer specific	Customer specific
Poland Kraków	Tubes for installation	EN 10255	0.375 - 6.0" (17.2mm - 165.1mm)	2.0mm - 5.4mm (H, M, L, L1, L2)	S195T	1. Hot Dip Galvanizing EN 10240 (A,1 - zinc coating quality: for water for human consumption) 2. Varnishing (water based) Hydrocom AV, Lankwitzer WG - 23-3000-1 (Transparent, red: RAL 3000) 3. Galvanised 0.5 up to 4.0 and threaded 0.375 up to 4.0
		EN 10224	0.375 - 6.0" (17.2mm - 168.3mm)	2.0 - 7.1 mm	L235, L275, L355	
		ASTM A-53, A53M-04a	30.375" - 6.0" (17.2mm - 165.1mm)	for STD 40	Grade A, Grade B	
	Tubes for construction	EN 39, BS 1139	48.3mm	Type 3 and 4	S235GT	
		EN 10210	21.3mm - 168.3mm	2.3mm - 6.3mm	S235JR, S275JR, S355JO	
	Tubes for piping and pressure	EN 10217-1	17.2mm - 168.3mm	2.3mm - 6.3mm	P195TR1, P235TR1, P265TR1	
	Tubes for gas transportation	EN 10208-1	33.7mm - 163.3mm	2.6mm - 6.0mm	L210GA, L235GA, L245GA, L290GA, L360GA	
	Hot rolled hollow sections for construction	EN 10210-1, EN 10210-2	H = 50x50 - 120x12mm HxB = 60x40 - 140x80mm	3.2mm - 7.1mm	S235JR, S275JR, S355JO	
Czech Republic Ostrava	Seamless tubes for construction	EN, ASTM, DIN, CSN, NF, GOST	21.3mm - 273.1mm	2.3mm - 25mm	Up to L415NB	* Temporary exterior protective coating: varnish, water-diluted lacquer, oil or synthetic enamel
	Spiral welded tubes for construction	EN, DIN, CSN, GOST	12.75 - 32" (323.9mm - 820.0mm)	3	Up to X 70	* Permanent exterior protective coating: triple-layer extruded polyethylene, cement-plastic, bitumen, galvanised * Permanent interior protective coating: cement mortar, bitumen

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Romania Iasi	Tubes for installation	EN 10255	0.25 - 5.0" (13.5mm - 139.7mm)	2.3mm - 5.4mm	S195T, S235JR	1. Painting (outside surface Varnishing) Water based paint: RAL 3000 (red fire) RAL 3009 (red oxide) RAL 3011 (red) RAL 5005 (blue) RAL 6005 (green) RAL 7012 (grey) RAL 9005 (black) 2. Temporary corrosion protection a) Alkaline based anti corrosion inhibitor b) oil based inhibitor
		ASTM A53	0.5 - 8.0" (21.3mm - 219.1mm)	2.77mm - 8.18mm	Grade A, Grade B	
	Tubes for construction	EN 39	48.3mm	Type 3 and 4	S235GT	
		EN 10210-1, EN 10210-2	OD=17.2mm - 88.9mm	2.0mm - 5.0mm	S235JRH, S275JRH	
		EN 10219-1, EN 10219-2	OD=42.4mm - 219.1mm	2.0mm - 8.0mm	S235JRH, S275JRH	
	Welded cold sized tubes	EN 10305-3	OD=16.0mm - 76.0mm	1.0mm - 3.2mm	E195, E235, E275	
EN 10305-5		H=20 - 60mm	1mm - 3mm	E195, E235, E275		
Tubes for piping and pressure	EN 10217-1, EN 10220	17.2mm - 219.1mm	2.3mm - 8.0mm	P195TR1, P235TR1		
	EN 10217-2, EN 10220	17.2mm - 219.1mm	2.3 - 8.0mm	P195TR2, P235TR2, P235GH		
Tubes for gas transportation	EN 10208-1, EN 10220	33.7mm - 219.1mm	2.3mm - 8 mm	L210GA, L235GA, L245GA		
Romania, Roman	Seamless tubes for construction	EN, SR	3.0" - 20.0" (88.9mm - 508.0mm)	5.20mm - 50mm	S275 J2H, S355 J2H, S355 NH, L235 GA, L245 GA, E235, E275, E315	* Temporary protective coating with black or uncoloured lacquer
	Heat exchanger tubes	EN, ASTM, DIN, SR	3.0 - 20" (88.9mm - 508.0mm)	5.20mm - 50mm	Grade 6, P265 GH	* Premium connections for castings - PTB007 and extreme line casing
Kazakhstan Temirtau	Tubes for construction	GOST 3262-75	21.3mm - 88.9mm	2.5mm - 4.5mm	1-3kp, 1-ps, 1-3 sp, 08kp,08ps,08sp	
	Tubes for water and gas transportation	GOST 10705-80	40.0mm - 108.00mm	1.5 - 4.5mm	1-3kp, 1-ps, 1-3 sp, 08kp,08ps,08sp	
South Africa Vereeniging	Cold drawn seamless tubes	ASTM A519			1010, 1012, 1018, 1518, 1541	* Varnish (solvent based non-toxic phenolic lacquer)
		EN 10305-1			E215, E235, E355	
	ASTMA 179, ASTM 92, ASTM 210	20mm - 101.6mm	2.11mm - 12.78mm	Grade A-1, Grade C		
	DIN 2391, DIN 1629, DIN 6323	20.0mm - 140.0mm	2.0mm - 18mm	Pt 2 St 52, St 52, Pt3, Pt4, Grade 3, Grade 4		
Canada Brampton	Welded cold sized tubes	ASTM 513	0.472" - 3.0"	0.022" - 0.125"	Carbon base grades 1006-1050, HSLA, AHSS	Galvanized, galvanneal, galvalume, zinc-nickel
Canada LaSalle	Continuous welded tubes	ASTM A53	0.84" - 4.5"	0.109" - 0.237"	GRADE A	Varnished or galvanized
		ASTM A53	0.84" - 4.5"	0.147" - 0.300"	GRADE A	
		ASTM A501	0.84" - 4.5"	0.109" - 0.237"	GRADE A	
		ASTM A 795	1.6" - 1.9"	0.109"	GRADE A	
	Hollow structural sections	ASTM A53	2.875" - 6.625"	0.023" - 0.280"	GRADE A and Grade B	
		ASTM A 589	5.563" - 6.625"	0.188" - 0.250"	GRADE B	
ASTM A 795	2.375" - 6.625"	0.109" - 0.134"	GRADE A			
Canada Woodstock	Welded cold sized tubes	ASTM 513	0.75" - 7.5"	0.032" - 0.460"	Customer specific	
	Hollow structural sections	*ASTM A500 Grade B/C CSA 640 - 21-50W*	2X2" - 8X4"	0.125" - 0.375"	1022	
	Cold drawn welded tubes	ASTM 513	0.504" - 5.56"	0.065" - 0.260"	Customer specific	
Mexico Monterrey	Welded cold sized tubes	ASTM 513	0.5" - 6.625"	0.030" - 0.189"	Carbon base grades 1006-1050, HSLA, AHSS	Galvanized, galvanneal, galvalume
USA Marion	Welded cold sized tubes	ASTM A513, SA178/214	1.0" - 6.0"	0.065" - 0.313"	1006 to 1035, 10B21, 15B21, 90XF, 65W and ST52.3 or E355 Others available by inquiry	
USA Shelby	Welded cold sized tubes	ASTM A513	1.25" - 12.5"	0.081" - 0.685"	Carbon base grades 1008-1050. Alloy grades 4118/4130/8620. Others available by inquiry	
	Cold drawn welded tubes	ASTM A513	0.813" - 12.0"	0.065" - 0.685"	Carbon base grades 1008-1050. Alloy grades 4118/4130/8620. Others available by inquiry	
	Hot finish seamless tubes	ASTM A519	2.188" - 6.75"	0.25" - 1.75"	Carbon base grades 1008-1050. Alloy full range of 41xx/ 43xx & 86xx series. Others available by inquiry	
	Cold drawn seamless tubes	ASTM A519	1.375" - 7.75"	0.171" - 1.687"	Carbon base grades 1008-1050. Alloy full range of 41xx/ 43xx & 86xx series Others available by inquiry	