Spiral Welded Steel Pipe

OMEGA STEEL CO.
Istanbul · Dilovası plant

Helical (spiral) submerged-arc welded large-diameter steel pipe from 406 to 2 540 mm outside diameter and 5 to 25 mm wall, in S235JR–S355J2H (EN 10219-1, EN 10224 water pipe, EN 10210 equivalents), API 5L Grade B–X70 and ASTM A252 Grade 2/3 piling pipe, lengths 6–18 m, plain, bevelled or with weld-on connectors, black, epoxy / polyethylene / polyurethane coated or cement-mortar lined; supplied from Turkish SAWH mills with EN 10204 3.1/3.2 for foundation piles, water and irrigation pipelines, well casing, culverts, dredging, columns and jacking pipe; shipped breakbulk or flat-rack from Marmara ports.

406 – 2 540 mm OD | Wall 5 – 25 mm | EN 10219 · EN 10224 · API 5L · A252 | 6 – 18 m | Coated · lined · bevelled

For diameters above 400 mm the economic pipe is spiral-welded: strip is formed helically and submerged-arc welded inside and out, giving any diameter from 406 to 2 540 mm in walls to 25 mm at 6–18 m lengths. Piling tubes for ports and bridges (ASTM A252, EN 10219), water transmission (EN 10224, API 5L), well casing, culverts, columns — coated or lined to the project spec, sourced from Turkey's SAWH mills and shipped

DIAMETER, WALL AND WEIGHT TABLE

OD (mm)	NPS	Wall 6 mm	Wall 8 mm	Wall 10 mm	Wall 12 mm	Wall 16 mm	Wall 20 mm
406.4	16"	59.2	78.6	97.8	117	154	191
508.0	20"	74.3	98.6	123	147	194	241
610.0	24"	89.4	119	148	177	234	291
711.0	28"	104	139	173	207	274	341
813.0	32"	119	159	198	237	314	391
914.0	36"	134	179	223	267	354	441
1 016	40"	149	199	248	297	395	491
1 220	48"	180	239	298	357	475	592
1 422	56"	209	279	348	417	555	691
1 626	64"	240	319	399	478	635	792
2 032	80"	—	399	499	598	796	992
2 540	100"	—	—	624	748	996	1 243

Wall 5–25 mm depending on diameter (D/t ≥ 40 typical); lengths 6, 12, 18 m and cut lengths.

STANDARDS AND GRADES BY APPLICATION

Application	Standard	Grade	Test / coating	Ends
Foundation piles (ports, bridges, buildings)	ASTM A252 Gr. 2/3, EN 10219 S355J2H, EN 10210	S355J2H / Gr. 3 (310 MPa)	Weld UT, hydro optional; bare or epoxy	Plain / bevelled, shoe, splice connector
Water transmission and irrigation	EN 10224, AWWA C200, API 5L Gr B	L235 / L275 / L355 (EN 10224)	Hydro, X-ray/UT; PE / epoxy outside, cement-mortar or epoxy inside	Bevelled, spigot-socket for welding
Well casing, dewatering	API 5L Gr B, EN 10219	S235JRH / Gr B	Hydro; bare	Plain, threaded couplings on request
Culverts, drainage, conveyor tubes	EN 10219, AS/NZS 1163	S235JRH	Weld UT; HDG or bitumen	Plain, bands
Structural columns, sign gantries, wind-tower internals	EN 10219 / EN 10210	S355J2H	UT, 3.1; blast + primer	Cut, end plates
Oil & gas gathering lines	API 5L PSL2	X42–X65	Full NDT, hydro; 3LPE	Bevelled 30°

STANDARDS

EN 10219-1/-2 (cold-formed welded structural hollow sections — SAWH) · EN 10224 (non-alloy steel tubes for water and aqueous liquids) · API 5L PSL1/PSL2 (line pipe, Grade B–X70) · ASTM A252 Grade 2 / 3 (welded and seamless steel pipe piles) · EN 10210 (hot-finished equivalents), AWWA C200 (water) · Coatings: EN 10289 / EN 10290 (epoxy / PE), AWWA C210, EN 10298 (cement mortar lining)