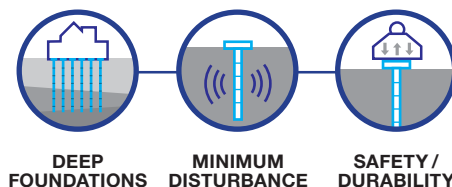


# TECNIPILE®

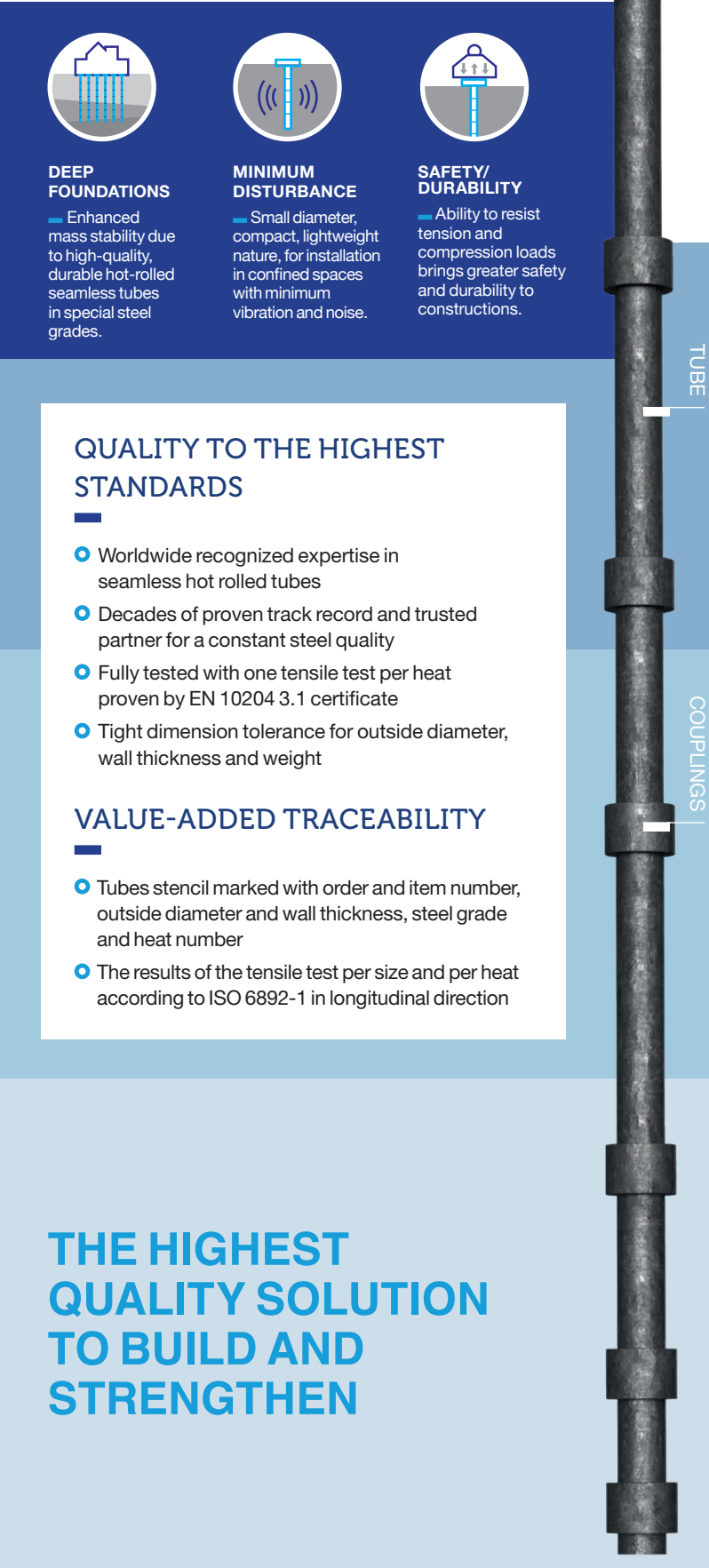
HOT FINISHED SEAMLESS  
TUBES FOR FOUNDATIONS





CHALLENGES

You need a practical and cost-effective solution to protect the past and its historic buildings, and to build the future on solid foundations. Your challenges include avoiding time-consuming digging, working in tight urban and sensitive areas, with limited access, difficult ground soil conditions, slopes or seismic environments.



DEEP FOUNDATIONS

Enhanced mass stability due to high-quality, durable hot-rolled seamless tubes in special steel grades.



MINIMUM DISTURBANCE

Small diameter, compact, lightweight nature, for installation in confined spaces with minimum vibration and noise.



SAFETY/ DURABILITY

Ability to resist tension and compression loads brings greater safety and durability to constructions.

QUALITY TO THE HIGHEST STANDARDS

- Worldwide recognized expertise in seamless hot rolled tubes
- Decades of proven track record and trusted partner for a constant steel quality
- Fully tested with one tensile test per heat proven by EN 10204 3.1 certificate
- Tight dimension tolerance for outside diameter, wall thickness and weight

VALUE-ADDED TRACEABILITY

- Tubes stencil marked with order and item number, outside diameter and wall thickness, steel grade and heat number
- The results of the tensile test per size and per heat according to ISO 6892-1 in longitudinal direction

THE HIGHEST QUALITY SOLUTION TO BUILD AND STRENGTHEN

SOLUTIONS

With Tecnipile®, the leading seamless steel tubes for micropile foundations, works are going faster with a high level of quality. Only minimum access and headroom are required to drill with little vibration, dust or noise.

Tecnipile® can be installed through virtually any ground condition, making it suitable for environmentally challenging conditions.

They are compact and light, capable of resisting compressive tensile and lateral loads.

A complete portfolio of steel grades is available for Tecnipile® with short lead times.

LARGEST PORTFOLIO FOR ALL YOUR REQUIREMENTS

Geometry

- Full range of standard and customized sizes
- Wall thickness guaranteed from 5 to 25 mm
- Outside diameter range from 60.3 mm to 273 mm

Steel grades

- MPV 80, MPV 110, S355J2H/0H
- Tubes with high machining properties

Other steel grades and dimensions are available on request

APPLICATIONS



NEW LOADS IN CONGESTED AREAS



SENSITIVE AREAS



CHALLENGING GROUND CONDITIONS



SLOPE STABILIZATION



UNDERPINNING / ARRESTING STRUCTURAL SETTLEMENT



SEISMIC RETROFIT

TECNIPILE® DATA SHEET

Size range and cross section

OD	WT	5.00	5.50	6.30	7.50	8.00	9.20	10.00	11.00	11.50	12.50	12.70	16.00	17.50	20.00	25.00												
60.3	6.8	868.7	7.4	946.9	8.4	1,068.8	9.8	1,244.1	10.3	1,314.4	11.6	1,476.9	12.4	1,580.2	13.4	1,703.7	13.8	1,763.1	14.7	1,877.1	14.9	1,899.2	17.5	2,226.8	<div>M [kg/m] A [mm²]</div>			
63.5	7.2	918.9	7.9	1,002.2	8.9	1,132.1	10.4	1,319.5	10.9	1,394.9	12.3	1,569.4	13.2	1,680.8	14.2	1,814.3	14.7	1,878.7	15.7	2,002.8	15.9	2,026.8	18.7	2,387.6				
70	8.0	1,021.0	8.7	1,114.5	9.9	1,260.8	11.6	1,472.6	12.2	1,558.2	13.8	1,757.3	14.8	1,885.0	16.0	2,038.9	16.6	2,113.5	17.7	2,258.0	17.9	2,286.2	21.3	2,714.3	22.7	2,886.3		
73	8.4	1,068.1	9.2	1,166.3	10.4	1,320.1	12.1	1,543.3	12.8	1,633.6	14.5	1,844.0	15.5	1,979.2	16.8	2,142.6	17.4	2,221.9	18.7	2,375.8	18.9	2,405.9	22.5	2,865.1	24.0	3,051.3	26.1	3,330.1
76.1	8.8	1,116.8	9.6	1,219.9	10.8	1,381.5	12.7	1,616.3	13.4	1,711.5	15.2	1,933.6	16.3	2,076.6	17.7	2,249.7	18.3	2,333.9	19.6	2,497.6	19.9	2,529.5	23.7	3,021.0	25.3	3,221.7	27.7	3,524.9
82.5	9.6	1,217.4	10.4	1,330.5	11.8	1,508.2	13.9	1,767.1	14.7	1,872.4	16.6	2,118.6	17.9	2,277.7	19.4	2,470.9	20.1	2,565.1	21.6	2,748.9	21.9	2,784.9	26.2	3,342.7	28.1	3,573.6	30.8	3,927.0
88.9	10.3	1,317.9	11.3	1,441.0	12.8	1,634.8	15.1	1,917.9	16.0	2,033.2	18.1	2,303.5	19.5	2,478.7	21.1	2,692.0	22.0	2,796.3	23.6	3,000.2	23.9	3,040.2	28.8	3,664.4	30.8	3,925.4	34.0	4,329.1
101.6			13.0	1,660.5	14.8	1,886.2	17.4	2,217.2	18.5	2,352.4	21.0	2,670.6	22.6	2,877.7	24.6	3,130.9	25.6	3,255.2	27.5	3,498.9	27.8	3,547.0	33.8	4,302.7	36.3	4,623.6	40.2	5,127.1
114.3			14.8	1,879.9	16.8	2,137.5	19.8	2,516.4	21.0	2,671.6	23.8	3,037.7	25.7	3,276.7	28.0	3,569.8	29.2	3,714.0	31.4	3,997.7	31.8	4,053.7	38.8	4,941.1	41.8	5,321.9	46.5	5,925.0
121			15.7	1,995.7	17.8	2,270.1	21.0	2,674.3	22.3	2,840.0	25.4	3,231.3	27.4	3,487.2	29.8	3,801.3	31.1	3,956.1	33.4	4,260.8	33.9	4,321.0	41.4	5,277.9	44.7	5,690.2	49.8	6,346.0
127			16.5	2,099.4	18.8	2,388.9	22.1	2,815.7	23.5	2,990.8	26.7	3,404.7	28.9	3,675.7	31.5	4,008.7	32.8	4,172.8	35.3	4,496.4	35.8	4,560.4	43.8	5,579.5	47.3	6,020.1	52.8	6,723.0
139.7			18.2	2,318.8	20.7	2,640.3	24.5	3,114.9	26.0	3,310.0	29.6	3,771.8	32.0	4,074.6	34.9	4,447.6	36.4	4,631.7	39.2	4,995.1	39.8	5,067.1	48.8	6,217.8	52.7	6,718.3	59.0	7,521.0
141.3					21.0	2,671.9	24.7	3,152.6	26.3	3,350.2	30.0	3,818.0	32.4	4,124.9	35.3	4,502.8	36.8	4,689.5	39.7	5,058.0	40.3	5,130.9	49.4	6,298.3	53.4	6,806.3	59.8	7,621.5
146					21.7	2,764.9	25.6	3,263.3	27.2	3,468.3	31.0	3,953.9	33.5	4,272.6	36.6	4,665.3	38.1	4,859.3	41.2	5,242.5	41.7	5,318.4	51.3	6,534.5	55.5	7,064.7	62.1	7,916.8
152.4					22.7	2,891.6	26.8	3,414.1	28.5	3,629.2	32.5	4,138.9	35.1	4,473.6	38.4	4,886.4	40.0	5,090.5	43.1	5,493.9	43.8	5,573.8	53.8	6,856.2	58.2	7,416.5	65.3	8,318.9
159					23.7	3,022.2	28.0	3,569.6	29.8	3,795.0	34.0	4,329.6	36.7	4,681.0	40.1	5,114.5	41.8	5,328.9	45.2	5,753.0	45.8	5,837.1	56.4	7,188.0	61.1	7,779.4	68.6	8,733.6
168.3					25.2	3,206.3	29.7	3,788.8	31.6	4,028.8	36.1	4,598.4	39.0	4,973.1	42.7	5,435.9	44.5	5,664.9	48.0	6,118.3	48.7	6,208.2	60.1	7,655.4	65.1	8,290.7	73.1	9,318.0
177.8					26.6	3,394.3	31.5	4,012.6	33.5	4,267.5	38.3	4,873.0	41.4	5,271.6	45.2	5,764.2	47.2	6,008.1	51.0	6,491.3	51.7	6,587.2	63.8	8,133.0	69.2	8,813.0	77.8	9,914.9
181.8					27.3	3,473.5	32.2	4,106.8	34.3	4,368.1	39.2	4,988.6	42.4	5,397.3	46.3	5,902.4	48.3	6,152.7	52.2	6,648.4	53.0	6,746.8	65.4	8,334.0	70.9	9,032.9	79.8	10,166.2
193.7							36.6	4,667.2	41.9	5,332.5	45.3	5,771.1	49.6	6,313.7	51.7	6,582.6	55.9	7,115.7	56.7	7,115.7	56.7	7,221.6	70.1	8,932.2	76.0	9,687.1	85.7	10,913.9
203							38.5	4,900.9	44.0	5,601.3	47.6	6,063.3	52.1	6,635.0	54.3	6,918.6	58.7	7,480.9	59.6	7,480.9	59.6	7,592.6	73.8	9,399.6	80.1	10,198.4	90.3	11,498.2
216							41.0	5,227.6	46.9	5,977.1	50.8	6,471.7	55.6	7,084.3	58.0	7,388.2	62.7	7,991.4	63.7	7,991.4	63.7	8,111.3	78.9	10,053.1	85.7	10,913.1	96.7	12,315.0
219.1							41.6	5,305.5	47.6	6,066.7	51.6	6,569.1	56.5	7,191.4	58.9	7,500.2	63.7	8,113.2	64.6	8,113.2	64.6	8,235.0	80.1	10,208.9	87.0	11,083.5	98.2	12,509.8
229							43.6	5,554.3	49.9	6,352.8	54.0	6,880.1	59.1	7,533.5	61.7	7,857.9	66.7	8,501.9	67.7	8,501.9	67.7	8,630.0	84.0	10,706.5	91.3	11,627.8	103.1	13,131.9
244.5							46.7	5,943.9	53.4	6,800.8	57.8	7,367.0	63.3	8,069.2	66.1	8,417.9	71.5	9,110.6	72.6	9,110.6	72.6	9,248.4	90.2	11,485.7	98.0	12,480.0	110.7	14,105.8
254							48.5	6,182.7	55.5	7,075.4	60.2	7,665.5	65.9	8,397.5	68.8	8,761.1	74.4	9,483.7	75.6	9,483.7	75.6	9,627.4	93.9	11,963.2	102.1	13,002.3		
273							52.3	6,660.2	59.9	7,624.5	64.9	8,262.4	71.1	9,054.1	74.2	9,447.6	80.3	10,229.8	81.5	10,229.8	81.5	10,385.5	101.4	12,918.2	110.3	14,046.8		

STEEL GRADE PROPERTIES

	Rm (Mpa)	Rp 0.2 (Mpa)	A% mini
S355J2H or S355J0H	470 - 630	≥ 355 (WT ≤ 16 mm) ≥ 345 (WT ≤ 40 mm)	≥ 22
MPV 80	≥ 690	≥ 560	≥ 10
MPV 110	≥ 860	≥ 760	≥ 10

TOLERANCES ON SIZE AND WEIGHT

OUTSIDE DIAMETER	±1%
WALL THICKNESS	-10% and -12.5% acc. to EN 10210-2
STRAIGHTNESS	Local straightness deviation: max. 3 mm per meter
LENGTH	• Random length: min. 2,000 mm between minimum and maximum specified length • Fixed length: -0/+100 mm
WEIGHT PER METER	-6% / +8% acc. to EN 10210-2

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