CE

1801

ITG STEEL PILES

ITG Steel Piles AB, Brunegårdsvägen 1, SE45176 Uddevalla, Sweden

ETA 18/0001 of 03/07/2018

MCP

Mechanical resistans and stability	
Bending resistance and bending stiffness	Bending stiffness of pile with mechanical pile joint: $E \cdot I_{spliced} \geq 0{,}75 \cdot E \cdot I_{unspliced}$ (in moment range $0{,}3 \cdot M_{el} - 0{,}8 \cdot M_{el}$) Bending resistance of the pile with mechanical pile joint: $M_{spliced} \geq M_{unspliced}$
Tension resistance	Tension resistance of the pile with mechanical pile joint: $N_{spliced} \geq 0{,}15 \cdot N_{unspliced}$
Compression resistance	Compression resistance of the pile with mechanical pile joint: $F_{spliced} \geq F_{unspliced}$
Robustness of pile joints	Impact test with stress level of $0{,}5 \cdot f_y$
Material properties and dimensional tolerances	See ETA 18/0001 of 03/07/2018 Annex A4
Resistance to corrosion	The reduced load bearing capacities of pile pipes in consideration of thickness losses due to corrosion set in EN 1993-5 shall be calculated according to valid EN standards or national regulations
Reaction to fire	Class A1, according to EN 13501-1
Material properties – Steel grade	
The steel pile	S460MH according to EN 10219-1
The sleeve	S355J2H according to EN 10219-1
The bearing plate	S355J2 according to EN 10025-2
The rock shoe	S355J2 according to EN 10025-2
The dowel	EN 25CrMoS4 according to EN 10277-5