



Welding instructions — casing systems



The Driller's Choice Worldwide

Integrated Large ID, all diameters Forepoling, all diameters





<mark>∬incon</mark>™

The Driller's Choice Worldwide

Welding the casing shoe OLD MODEL

Integrated thick wall, diameters < 323mm



Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Weld root weld and grind it clean
- 3. Weld final welding/s to required dimensions
- 4. Make sure connection is fully welded as presented below





Final weldings

The Driller's Choice Worldwide

Welding the casing shoe NEW MODEL

Integrated thick wall, diameters 114-273mm

Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Make sure cap between ring bit and casing shoe is closed
- 3. Place the ring bit against the casing (note 2. cap closed)
- 4. Weld root weld and grind it clean
- 5. Weld final welding/s to required dimensions
- 6. Make sure connection is fully welded as presented below







The Driller's Choice Worldwide



Integrated thick wall, diameters ≥ 323mm







The Driller's Choice Worldwide

Retrievable, all diameters





Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Weld root weld and grind it clean
- 3. Weld final welding/s to required dimensions
- Make sure connection is fully welded as presented below





The Driller's Choice Worldwide

Retrievable, slip on type ring set





AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Final weldings Preheating is highly recomended. (180°C welded areas) 1. First grind all surfaces that are to be welded 2. Weld root weld and grind it clean 3. Weld final welding/s to required dimensions 4. Weld casing shoe slots also Make sure connection is fully welded as 5. presented below Root weld Weld all slots Correct Wrong



The Driller's Choice Worldwide

Solitary & Solitary O-pile, all diameters



Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Check right intalling depth (x) from table 1.
- 3. If there is a 5° chamfer on the other side of casing shoe, istall casing shoe in to the casing chamfer upwards
- 4. Weld root weld and grind it clean
- 5. Weld final welding/s to required dimensions
- 6. Make sure connection is fully welded as presented below





The Driller's Choice Worldwide



Solitary & Solitary O-pile, all diameters



Casing diameter	Installing depth (x)
mm/(inches)	mm/(inches)
114.3 (4 1/2")	10 (3/8")
139.7 (5 1/2")	15 (5/8")
168.3 (6 5/8")	15 (5/8")
177.8 (7")	15 (5/8")
219.1 (8 5/8")	15 (5/8")
273 (10 3/4")	15 (5/8")
323.9 (12 3/4")	15 (5/8")
406.4 (16")	15 (5/8")
457.2 (18")	15 (5/8")
508.0 (20")	15 (5/8")
609.6 (24")	20 (3/4")
711.2 (28")	20 (3/4")
812.8 (32")	20 (3/4")
914.4 (36")	20 (3/4")
1016.0 (40")	20 (3/4")
1219.2 (48")	30 (1 1/4")
1320.8 (52")	30 (1 1/4")
1422.4 (56")	30 (1 1/4")
1524 (60")	30 (1 1/4")

Table 1. Casing shoe installing depth



The Driller's Choice Worldwide









The Driller's Choice Worldwide

Horizontal casing shoe with shoulder





Correct Wrong



The Driller's Choice Worldwide

Horizontal, casing shoes without shoulder



Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Check right intalling depth (x) from table 2.
- 3. Istall casing shoe in to the casing 5° chamfer upwards
- 4. Weld root weld and grind it clean
- 5. Weld final welding/s to required dimensions
- 6. Make sure connection is fully welded as presented below
- 7. Optional: install locally made sleeve (page 11)





The Driller's Choice Worldwide



Horizontal, casing shoes without shoulder



Casing diameter mm/(inches)	Installing depth (x) mm/(inches)
406.4 (16")	15 (5/8")
457.2 (18")	15 (5/8")
508.0 (20")	15 (5/8")
609.6 (24")	20 (3/4")
711.2 (28")	20 (3/4")
812.8 (32")	20 (3/4")
914.4 (36")	20 (3/4")
1016.0 (40")	20 (3/4")
1219.2 (48")	30 (1 1/4")
1320.8 (52")	30 (1 1/4")
1422.4 (56")	30 (1 1/4")
1524 (60")	30 (1 1/4")

Table 2. Casing shoe installing depth





The Driller's Choice Worldwide

Horizontal systems, sleeve installation





Welding rod:

AWS:E7018 DIN: E5153810 e.g. ESAB: OK 48.00 Preheating is highly recomended. (180°C welded areas)

- 1. First grind all surfaces that are to be welded
- 2. Install sleeve according to a drawing
- 3. Make sure there is 10mm gap between sleeve front end and ring bit
- 4. Weld root weld and grind it clean
- 5. Weld final welding/s

10mm gap between sleeve and ring bit





The Driller's Choice Worldwide

