

IP-3 DUCT SYSTEM

DS 240 E 0404



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Technical Data

DS 240 E 0404

Duct System for corrosion protection of grouted post-tensioning tendons made from PP or HDPE polyolefin material.

Kind of Duct Thick wall corrugated duct with intermittent circular corrugation for improved corrosion protection of bonded post-tensioning tendons

Norm Design and Material comply to latest fib 'technical report bulletin 7' recommendations

Materials

- Duct available in Polypropylen and Polyethylen material depending on project requirements and installation temperatures
- Duct available in different wall thickness acc project requirements

IP-3 Duct IP-3 Duct is available in **IP-3 M** for fib compliance and economical **IP-3 S** for lower requirements

Sizes

IP-3 M		Sizes in mm		
Model	Type	OD	ID	Wall
50/61	round	61	50	2,5
70/81	round	81	70	2,5
85/99	round	99	85	2,5
100/114	round	114	100	3,0
120/135	round	135	120	3,0
130/145	round	145	130	3,0
20/72	flat	72	25	2,5

IP-3 S		Sizes in mm		
Model	Type	OD	ID	Wall
50/61	round	61	50	2,0
70/81	round	81	70	2,0
85/99	round	99	85	2,0
100/114	round	114	100	2,5
120/135	round	135	120	2,5
130/145	round	145	130	2,5
20/72	flat	72	25	2,0

Duct Length All sizes available in straight length standard 5,8 m. Other straight length on request. Flat ducts and sizes up to 100 mm in 50 m coils

Material Properties Polypropylen acc ASTM D 4101 PP 0346 B 44544 with density of 0,91 g/cm³ at 23°C
Polyethylen acc ASTM D 3350 PE 345444 E with density of 0,94 g/cm³ at 23°C

Colors PP black or grey, HDPE black

Product Properties Ducts have been successful tested acc fib recommendations for following acceptance criteria: Flexural Behaviour, Duct Flexibility, Lateral Load Resistance, Longitudinal Load Resistance, Leak Tightness, Bond Behaviour, Friction Parameter, Wear Resistance for minimum rest-wall thickness of 1,0 mm after stressing. Minimum radii of curvature depend on pipe size and number of strands.

Jointing

- Mirror welding
- PF coupler (additional Heat Shrink sleeve) if requested
- PFS coupler including integrated sealing for 1.0 bar pressure tightness
- SB coupler for segmental bridge connections

Fittings Port vents, Vent pipes, Valves, End caps, Shrink pipe couplers, Shrink sleeve couplers
PF coupler, PFS coupler with integrated sealing

Grout Port Welding PESTEC Grout Ports weldable directly to the duct in economic, easy, professional, safe and pressure tight way using our special welding equipment.

Options IP-2 Duct System with integrated screw joint. Design comply to latest fib 'technical bulletin 7' recommendations and latest FDOT recommendations

Contact us for more details.

Discover PESTEC. Discover our ideas.

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