

DHPS 2– HDPE HALF-PIPE

DS 321 E 0404



DHPS 2- HDPE HALF PIPE

Technical Data

Polyethylen Sheathing for durable protection of grouted new external tendons or repair of existing external Post-tensioning tendons

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------|--|-----------------------|-----|-----------------------|-----------------------|----|-----------------------|----|----|-------|-----|-----|-------|-----|----|-------|-----|-----|-------|-----|----|-------|-----|-----|-------|-----|-----|-------|-----|-----|-------|
| Kind of Duct | Split HDPE double wall half-pipe with incorporated sealing with click connection Design to comply to standard grouting procedures incl pressure tightness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sealing | Integrated double sealing for inside and outside pressure tightness | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Heat Resistance | Best heat resistance to reduce “aging due to heat” effect | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Micro Crack Resistance | Best stabilisation to reduce formation of micro fissures at pipe surface | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure Tightness | 3,0 bar hydrostatic pressure from inside and 3.0 bar from outside | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sizes | <table><tr><td>OD</td><td>ID</td><td>WallOD/cavity/Wall ID</td><td>OD</td><td>ID</td><td>WallOD/cavity/Wall ID</td></tr><tr><td>90</td><td>62</td><td>4/7/3</td><td>160</td><td>132</td><td>4/7/3</td></tr><tr><td>110</td><td>82</td><td>4/7/3</td><td>180</td><td>152</td><td>4/7/3</td></tr><tr><td>125</td><td>97</td><td>4/7/3</td><td>200</td><td>172</td><td>4/7/3</td></tr><tr><td>140</td><td>112</td><td>4/7/3</td><td>225</td><td>195</td><td>5/6/4</td></tr></table> | OD | ID | WallOD/cavity/Wall ID | OD | ID | WallOD/cavity/Wall ID | 90 | 62 | 4/7/3 | 160 | 132 | 4/7/3 | 110 | 82 | 4/7/3 | 180 | 152 | 4/7/3 | 125 | 97 | 4/7/3 | 200 | 172 | 4/7/3 | 140 | 112 | 4/7/3 | 225 | 195 | 5/6/4 |
| OD | ID | WallOD/cavity/Wall ID | OD | ID | WallOD/cavity/Wall ID | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 90 | 62 | 4/7/3 | 160 | 132 | 4/7/3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110 | 82 | 4/7/3 | 180 | 152 | 4/7/3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 125 | 97 | 4/7/3 | 200 | 172 | 4/7/3 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 140 | 112 | 4/7/3 | 225 | 195 | 5/6/4 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colors | Standard black. Other colors incl. uv-protection available. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Installation and Jointing | Half-pipes to be clicked together longitudinal over installed strand bundles. For best performance of half-pipes ID, we recommend to add 16-20 mm installation gap all in all to max OD of stands/packers/spacers. Radial joints by butt welding with special half-pipe welding equipment available for all sizes. For limited installation area radial joints by electrofusion welding rings | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Production | For product no norms available. Production with ISO 9001 Quality Plan. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Material | High Density Polyethylen with density of 0.95 g/cm3 at 23°C acc ASTM D 3350 class 345444 E. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Chemical Resistance | Against almost any type of chemical attack. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pressure – Tests | Field test performed on 160/132 mm duct with standard PT grout filled with grouting pressure up to 7 bar resulted in final max hydrostatic pressure of 5 bar without any leaks. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UV – Stability Guarantee | We offer 15 years guarantee on color stability and mechanical properties. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fittings | Spacers, Port vents, Vent pipes, Valves, End caps, Shrink couplers, Sealing tape available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Prefabrication | We offer job site assistance and service in the field. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Options | DHP Halfpipe system for non grouted stay cable protection | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| References | On request. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Contact us for more details.

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