

IP 4 M Duct – Technical Properties

The given properties are based on FIB Bulletin 7 requirements asking the manufacturer to establish minimum bending radius for their duct for use in bonded PT applications.

Remark: One size larger duct ID should be selected in case of long tendons (>80 m) or if the strands are installed after concreting.

	Strands 0.5" = 12.7 mm				Strands 0.6" = 15.24 mm			
Material	M PP + PE	M PP	M PE	M PP + PE	M PP + PE	M PP	M PE	M PP + PE
Type	Max Tendon Unit	Min Bending Radius	Min Bending Radius	Min tangent Length	Max Tendon Unit	Min Bending Radius	Min Bending Radius	Min tangent Length
IP 4								
Duct ID		m	m	m		m	m	m
59	7	3.0	3.9	0.8				
59	12	4.1	5.3	1.0	7	3.9	5.0	1.0
76	19	5.4	6.4	1.0	12	5.0	6.2	1.0
85	22	5.9	7.0	1.0	15	5.5	6.2	1.0
100	27	6.4	7.6	1.0	19	6.3	8.2	1.5
100	31	6.8	8.8	1.5	22	6.9	9.0	1.5
115	37	7.3	9.5	1.5	31	8.1	10.5	1.5
130	43	7.9	10.2	1.5	37	8.6	11.2	1.5
130	55	9.0	11.7	1.5	43	9.4	12.2	1.5
150					55	10.6	13.7	1.5
72/21	5-4				6-4			

Friction Coefficient average is 0,14

Wobble Factor with support 0,001

Wobble Factor without support 0,003

Recommended Tendon support spacing 0,5 – 0,6 m