

SB 4 COUPLER

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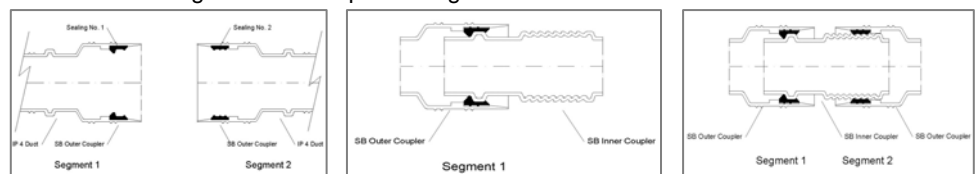


SB 4 COUPLER

Technical Data

Coupler System for Plastic Duct connection of pre-cast elements in segmental bridges.

Kind of Product	HDPE coupler system designed as a pressure and corrosion tight connection of internal bonded post-tensioning tendons in pre-cast segmental structures. The SB coupler with it's small outer dimensions can also be used in multi tendon designs with small tendon to tendon distances and is designed to cover a maximum segment to segment installation tolerance of 50 mm caused e.g. by part tolerances, duct elongation caused by temperatures, pipe cutting and welding or formwork and segment to segment gap. Suitable for corrugated PESTEC IP 3 and IP 4 ducts for internal PT and smooth PESTEC EP ducts for external PT. Suitability with other corrugated ducts for internal PT upon request.
Norm	No norm applicable. Materials comply to latest fib 'technical report bulletin 7' recommendations
Materials	Couplers available in PP or HDPE material complying with duct material and fib 7
Coupler parts	The SB coupler systems consist of 2'Outer Couplers', 1'Inner Coupler', 1 Sealing No 1, 1 Sealing No 2, 2 end caps for temporary and multiple use.
Sizes	All PESTEC IP 4 duct sizes ID 58 – 140 mm available. Other sizes on request.
Delivery Options	PESTEC offers several options for SB coupler delivery. <ul style="list-style-type: none"> • Prefabricated segment ducts on final length consisting of IP 4 duct including mirror welding of 'Outer Couplers'. • Delivery of ducts in final segment lengths and SB couplers separately for site welding. • Delivery of ducts in standard lengths and SB couplers separately for site welding.
Advantages	<ul style="list-style-type: none"> • Small outer dimensions • Coverage of 50 mm tolerances caused by parts or/and installation reasons • Perfect tightness for best corrosion protection • Easy installation • Remaining opening to take surplus of epoxy material to drain from pre-cast element surfaces • High durability and expected service life of 100 years • Suitable with smooth ducts for external PT in segmental structures also
Product Properties	SB Couplers have been successful tested on practical function, sizes, tightness (0,3 bar for 5 minutes), strand installation and easy operation.
Jointing to Duct	<ul style="list-style-type: none"> • Mirror welding • Heat Shrink Sleeve
Installation Method	<ul style="list-style-type: none"> • One Outer Coupler to be mirror welded to the segment duct and ends closed using end caps • After Segment concreting remove end caps and insert sealings • Push Inner Coupler into Outer Coupler of segment 1 • Place segment 2 against segment 1. The multi-rib part of the Inner Coupler will slide and self locate into sealing of Outer Coupler of segment 2



Contact us for more details.

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