

Pipe Liner Lateral Connection System CONNEX



force-fitted – zero-tension – water-tight

Perfect for GRP and needle-felt liners

Retrofitted



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The reintegration of sewer connection lines is still one of the most delicate aspects involved in the retrofitting of sewer pipes with pipe liners. For years now, a range of different procedures and systems have been used – with limited success. The Pipe

Liner Lateral Connection System CONNEX is part of the latest generation of modern, high-performance components that help to provide reliable, professional and cost-effective connections to main pipes retrofitted with pipe liners (GRP liners or needle-felt tube/synthetic fibre liners).

Three versions

The Pipe Liner Lateral Connection System CONNEX is suitable for integrating lateral sewer connection lines into main pipes that have been retrofitted with a pipe liner (GRP or needle-felt/synthetic fibre). Three versions of the Pipe Liner Lateral Connection System CONNEX are available: the nominal diameter DN/OD 160 version with a 162 mm drill hole for use in main pipes sized DN 250 and 300, the DN/OD 160 liner connection with a 200 mm drill hole for use in main pipes sized DN 400 or larger, and the DN/OD 200 with a 200 mm drill hole for use in main pipes sized DN 250 or larger. Installation is carried out using a work window cut into the main or existing sewer pipe with a suitable tool, such as an angle grinder. During professional installation of the individual components, a force-fitted connection to the liner is created to compensate for any unevenness in the liner due to the design.



liner connection made easy



Area of use

Main Pipe DN	Internal Diameter Main Pipe/Liner	Wall Thickness Main Pipe/Liner max.	DN/OD Connection	Diameter Drill Hole	Code
250	228 – 244 mm	10 mm	160 mm	162 ± 1 mm	LACO253.242
300	287 – 306 mm	10 mm	160 mm	162 ± 1 mm	LACO302.306
400	388 – 412 mm	27 mm	160 mm	200 ± 1 mm	LACO404.412
500	453 – 513 mm	27 mm	160 mm	200 ± 1 mm	LACO502.513
600	572 – 607 mm	27 mm	160 mm	200 ± 1 mm	LACO602.607
700 – 800	665 – 809 mm	27 mm	160 mm	200 ± 1 mm	LACO702.809
900 – 1500	856 – 1500 mm	27 mm	160 mm	200 ± 1 mm	LACO902.1212
250	226 – 244 mm	27 mm	200 mm	200 ± 1 mm	LACO251.241
250	249 – 259 mm	27 mm	200 mm	200 ± 1 mm	LACO252.259
300	275 – 295 mm	27 mm	200 mm	200 ± 1 mm	LACO304.295
400	388 – 412 mm	27 mm	200 mm	200 ± 1 mm	LACO402.412
500	453 – 513 mm	27 mm	200 mm	200 ± 1 mm	LACO501.513
600	572 – 607 mm	27 mm	200 mm	200 ± 1 mm	LACO601.607
700 – 800	665 – 809 mm	27 mm	200 mm	200 ± 1 mm	LACO701.809
900 – 1500	856 – 1500 mm	27 mm	200 mm	200 ± 1 mm	LACO901.1212



Special case: Liner has a hole pre-milled by robot

For liners in main pipe DN	as a guide for the centring pin on the GRP drill bit	Max. liner hole size	Drill template/ code no.
250	162 ± 1 mm	142 mm	LABS250162
300	162 ± 1 mm	142 mm	LABS300162
250	200 ± 1 mm	180 mm	LABS250200
300	200 ± 1 mm	180 mm	LABS300200
400	200 ± 1 mm	180 mm	LABS400200
500	200 ± 1 mm	180 mm	LABS500200
600	200 ± 1 mm	180 mm	LABS600200

In cases where a hole has already been pre-milled in the liner at the sewer connection point by a robot, the liner drill template is used. This is essential in order to ensure that the drill hole required for the installation of the Pipe Liner Lateral Connection System CONNEX is made professionally and to the correct dimensions. Please refer to the manufacturer's installation instructions for a description of the necessary work steps.





HS® Adhesive Saddle

The alternative for milled openings/bore holes that are too large



In situations where the existing milled openings are too big to use the Pipe Liner Lateral Connection System CONNEX, the brown HS® Adhesive Saddle is also an outstanding solution for integrating sewer connection lines into main pipes that have been fitted with a pipe liner. It is available in nominal connection diameters of DN/OD 160 and 200, and is suitable for use in main pipes sized DN 200 to 500 and connection openings ≥ 200 mm (see table). The integrated HS® VARIO Coupler offers a high level of flexibility at the installation point. First, a work window matching the size of the curved saddle baseplate must be cut into the main pipe to expose the pipe liner. The fitting can then be glued into place. The HS® Adhesive Saddle can also compensate for slight unevenness or wrinkling in the liner. A dual-component adhesive is included in the delivery; this must be applied using the putty knife as specified in the installation instructions. Variants for large ranges of nominal diameter are also available upon request.



HS® Adhesive Saddle affixed with saddle clamp



DN Main Pipe	DN/OD Connection	Opening (chamfered or drilled) with max. diameter of	Code
200	160	175 mm	HSSKS200160SET
225	160	190 mm	HSSKS225160SET
250	160	210 mm	HSSKS250160SET
300	160	230 mm	HSSKS300160SET
350	160	240 mm	HSSKS350160SET
400	160	250 mm	HSSKS400160SET
450	160	260 mm	HSSKS450160SET
500	160	270 mm	HSSKS500160SET
250	200	210 mm	HSSKS250200SET
300	200	230 mm	HSSKS300200SET
350	200	240 mm	HSSKS350200SET
400	200	250 mm	HSSKS400200SET
450	200	260 mm	HSSKS450200SET
500	200	270 mm	HSSKS500200SET

