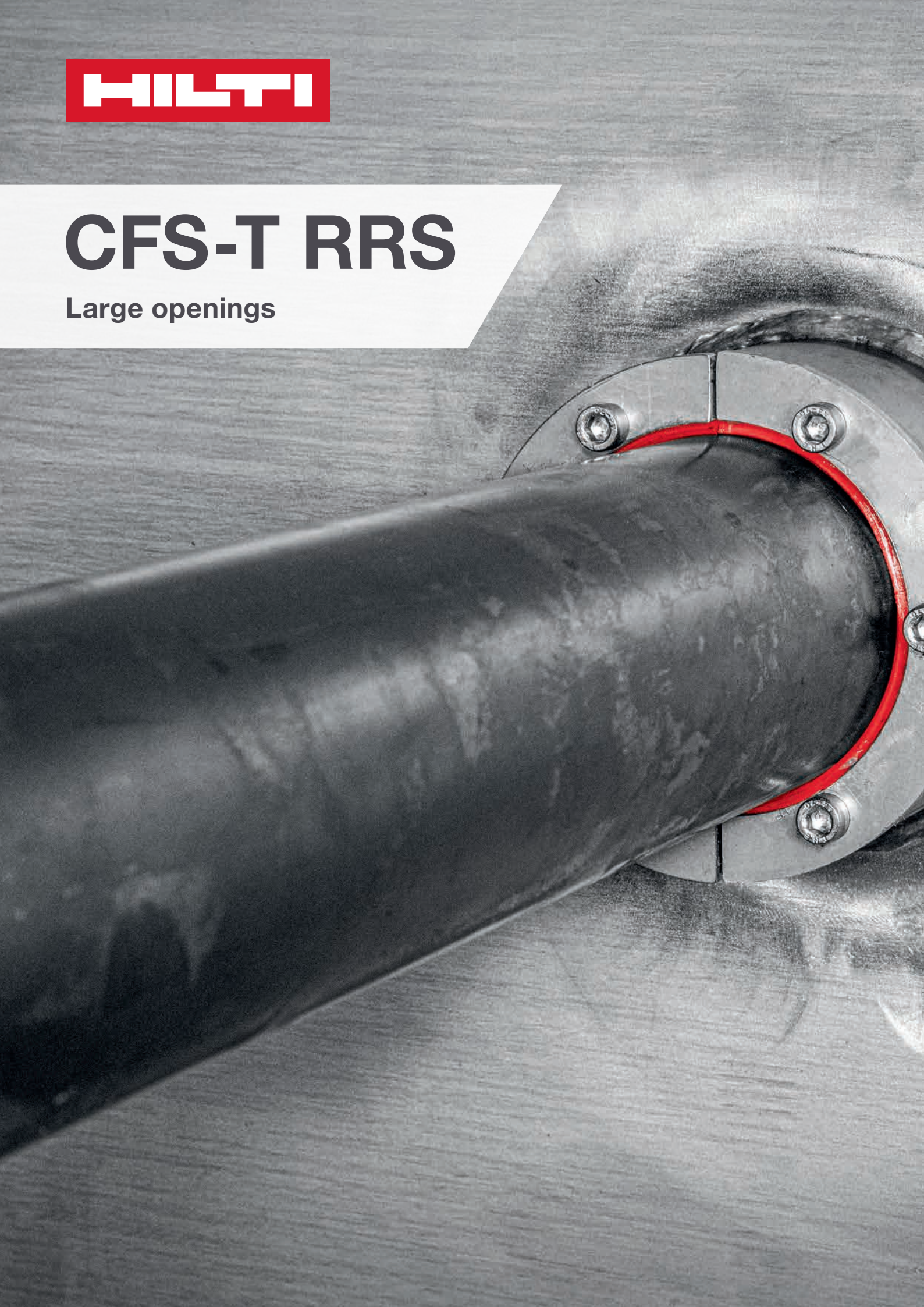
CFS-T RRS

Large openings



Product details

CFS-T RRS

- **Faster installation**
- **The 3 modules cover an extended diameter range of 75 – 165 mm.**
- **Helps to reduce inventory and simply logistics.**
- **Tightening screws are used to develop compression pressure instead of the wedge and anchor plates.**

Product description:

The CFS-T RRS plug seal consists of an elastic, halogen- free and highly flame-resistant synthetic rubber (EPDM) insert with tensioning bolts and plates made from A4 stainless steel.

The CFS-T RRS plug seal is an important component of the Hilti cable transit system for sealing around cables or pipes in circular openings.

It forms a fire-resistant and flood resistant seal with accompanying tests for concrete penetrations.

Base material

- Concrete and concrete substrates.

Remarks

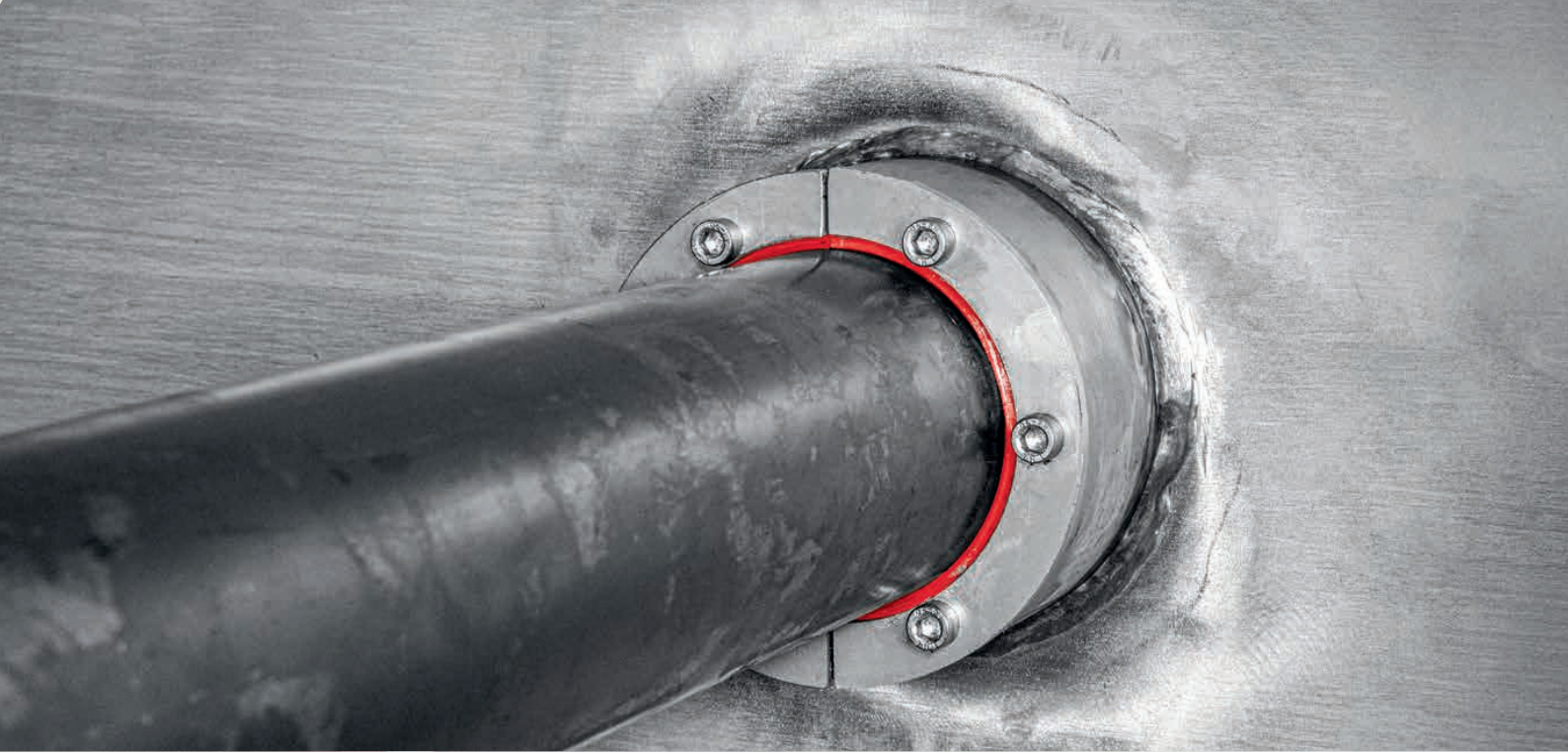
- Reuse of the product is not possible once installed.
- Product tests conducted with Hilti specific products in concrete and concrete substrate.
- Testing conditions specified in Hilti configurations, refer to the specified approvals for the chosen application coverage.
- Call Hilti customer support in case of doubt.
- Always conduct inspections after damage incidents like strong earthquakes or heavy flooding to ensure correct installation according to Instructions For Use.

Technical data*

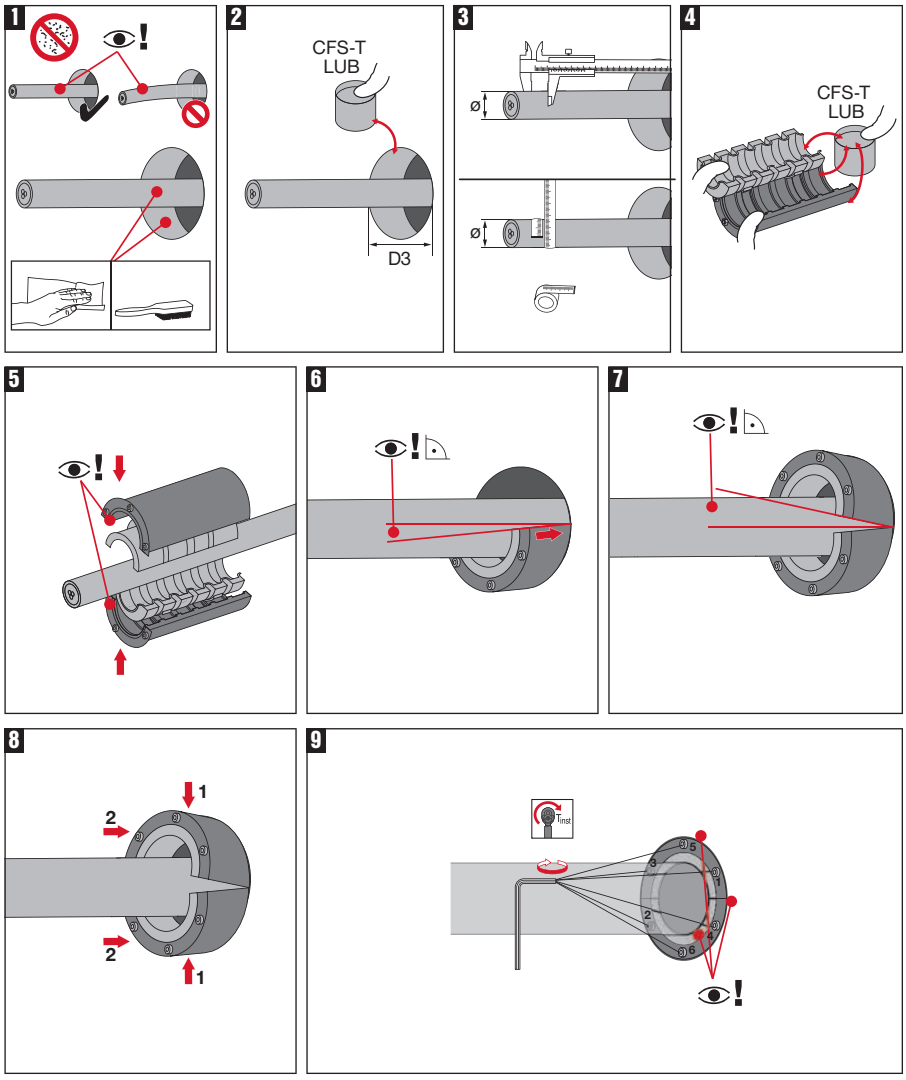
Fire Resistance According to Classification Report No. 23432B	Up to EI 120
Flood resistance	Up to 1 bar gauge (1 barg) Up to 10 m (water column)
Ingress protection according to EN 60529:1991 + A1:2001 + A2:2013	IP 68
UL	Fire resistant through-penetrations in accordance with UL 1479

* Performance data based on laboratory testing under controlled conditions. Field performance depends on proper installation and site conditions. Technical information provided for reference. Classification report can be given upon request. Standard Hilti warranty terms apply.

Durability warning
The aging and fire tests conducted for the EPDM and metal components are not based on any ISO or other recognized standard but were derived from internal procedures used for concrete aging. Due to lack of global standards in terms of testing conditions for evaluating flood resistance we cannot guarantee that the data provided accurately represents long-term performance over extended periods of time. The information given in the technical documents are provided for technical reference and shall in no way be regarded as performance warranty, certification, or guarantee. Upon request, tailored testing procedures can be developed to reflect the specific conditions and requirements of the customer's building or installation.



Installation instructions CFS-T RRS



1. Make sure the cable is supported for a straight penetration. Clean the cable and the opening area (i.e. for dust).

2. Apply lubricant on the base material of the opening.

3. Measure the cable diameter to define which adapter to be used.

4. Add lubricant to the surface of the adapter.

5. Assemble the adapter and the plug seal around the cable.

6. For the ease of installation, apply the adapter in an angle, using split approach.

7. Insert the other part of the plug seal into the opening. Make sure it is flush with the bottom part of the plug seal.

8. Push the plug into the opening from all sides according to the image.

9. Using a torque wrench, tighten all screws in the cross-pattern sequence. Recommended torque range 6–8 Nm while tightening the bolts.

Adapters to use

CFS-T RRS – 125/79–99		CFS-T RRS – 150/96–118		CFS-T RRS – 200/138–165	
Cable diameter and corresponding system part					
mm	**Adapter**	**mm**	**Adapter**	**mm**	**Adapter**
97–99	basic	114–118 mm	basic	162 – 165 mm	basic
91 – 96	red XL	108–112 mm	red XL	156 – 161 mm	red XL
85 – 90	grey L	102–107 mm	grey L	150 – 155 mm	grey L
79 – 84	black S	96–101 mm	black S	144 – 149 mm	red M
				138 – 143 mm	black S

Type	cable/pipe Ø	D1	D2	D3 hole Ø	L2	bolts	bolts	tinst
CFS-T RRS – 125/79 – 99 S/S	79–99 mm	134 mm	125 mm	125–127 mm	76 mm	6	M6x70	6–8 Nm
CFS- T RRS – 150/96 – 118 S/S	96–118 mm	158 mm	150 mm	150–152 mm	76 mm	6	M6x70	6–8 Nm
CFS- T RRS – 200/138 – 165 S/S	138–165 mm	208 mm	200 mm	200–203 mm	76 mm	6	M6x70	6–8 Nm

CFS-T RRS extended portfolio 125/150/200

Ordering designation	Package	Material	Item numbers*		
			Plug seal	Sleeves CFS-T SL	Sleeves CFS-T SLF
CFS-T RRS 125/79-99	1 pcs	SS	2371069	2044666	2044672
CFS-T RRS 150/96-118	1 pcs	SS	2371140	2044667	2044673
CFS-T RRS 200/138-165	1 pcs	SS	2371142	2044668	2044674

* The item numbers are including adapters, not including core modules

Adapterset/Sealing Strip for diameter adjustment

Ordering designation	Package	Item number
CFS-T AS-125	2	2210449
CFS-T AS-150	2	2210450
CFS-T AS-200	2	2210451
CFS-T SST 60x1x720 HFE	5	2210452
CFS-T SST 60x4x720 HFE	5	2042740

Ø +2 mm < Ø +4 mm < Ø +6 mm < Ø +8 mm

* Item combinations outside of Hilti products not tested with environment specific criteria

Hilti Multi Cable Transit Systems (MCTs) have been meticulously tested and validated by independent, recognized laboratories under precise conditions and parameters. Any application beyond the approved range may result in unpredictable performance or unintended consequences. Users assume full responsibility for the functionality, outcomes, and risks associated with such untested uses. The manufacturer/vendor holds no liability whatsoever for any issues, damages and losses arising from (i) the use of Hilti's outside the tested range or specified conditions, and (ii) the improper use, installation, and (iii) personal hazards, including the exposure of the electric cables to water. In the event of conflicting requirements within documents of the same hierarchical level, the most stringent standard shall prevail.

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