

WATERSEAL

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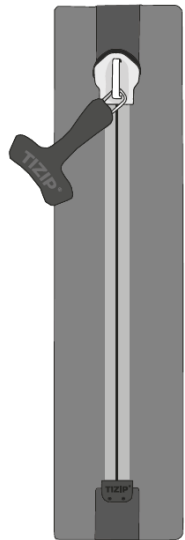
PREMIUM WATERPROOF ZIPPERS MADE IN GERMANY



splash proof

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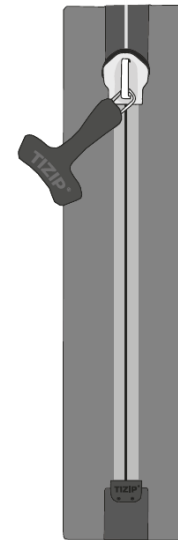
VERSIONS



1 slider



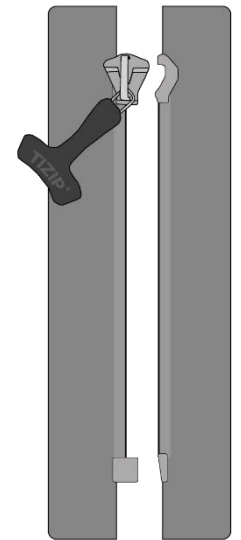
both sides closed



1 slider



one side open



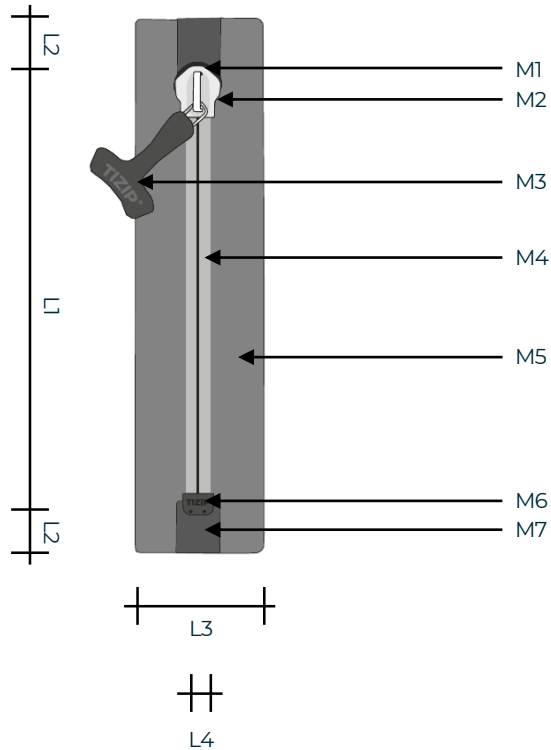
1 slider



separable

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TECHNICAL DATASHEET



Geometry*

- L1 Order length: 130 - >>10.000 mm
- L2 Overhang length: 16 mm / 25 mm
- L3 Tape width: 50 mm / 70 mm
- L4 Chain width: 11 mm

Material*

- M1 Docking End: Thermoplastic Polyurethane
- M2 Slider: Metal, Polymer
- M3 Puller: Polyurethane
- M4 Chain: Polyester Monofilament
- M5 Tape: Polyurethan coated Polyester
- M6 End Stop: Thermoplastic Polyurethan
- M7 Pattern: Polyurethan coated Polyester

Parameter*

- ☔ Sealing strength: 50 mbar (splash proof)
- ↔ Cross tension: 300 N/cm
- 🌡️ Temperatur: -30° to +70° C

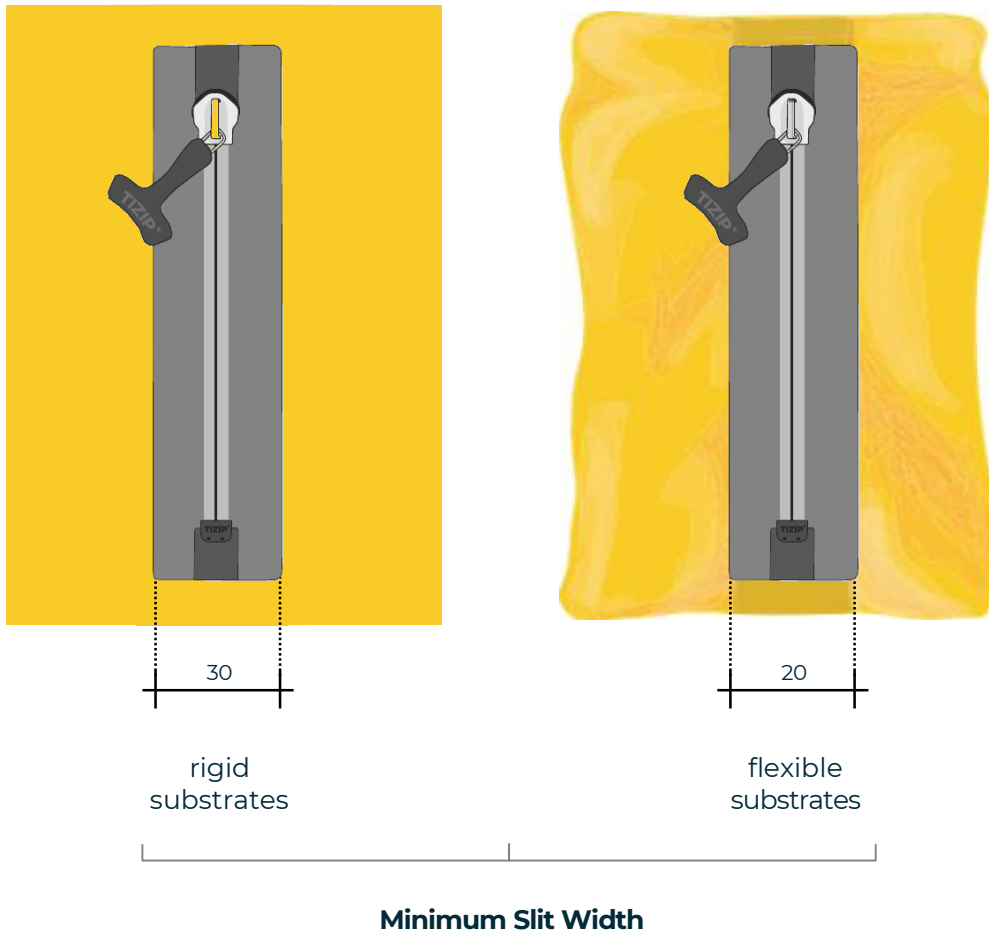
Installation*

HF welding, sewing + taping, gluing

*configuration-dependent target values

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APPLICATIONS / DURABILITY / INSTALLATION



Applications

- Protective & survival
 - Shoes
 - Tents, covers
 - Backpacks, duffel bags, cooler bags
 - Other
- } Clothing
- } Outdoor

Durability

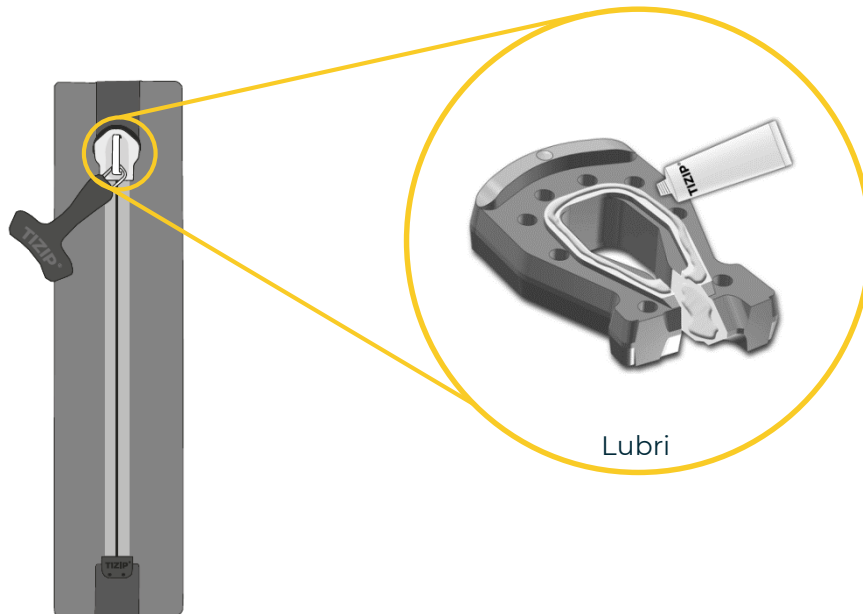
- Weather-resistant
- Suitable for both freshwater and saltwater applications
- Oil and gasoline-resistant

Installation

- A minimum slit width of 20 mm is recommended for all types of substrates.
- With rigid substrates (fabric, foils, neoprene, etc.) the slit width should be increased to at least 30 mm.
- The zip must not be roughened for installation.
- The welding temperature, welding time, welding electrode and contact pressure must be optimally adjusted to the zipper (material, geometry, etc.). Tests are recommended before installation.

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BEST PRACTICE / CLEANING / STORAGE



Best Practice

- Operate the slide gently. Pulling at an angle can negatively affect the zippers, e.g. their tightness.
- Avoid overstretching the docking end and end pieces if necessary by using the optional Q-Strap. Do not pull the two sides of the zipper apart forcefully.
- Be careful not to fold or squeeze the zippers.
- Close each zipper carefully so that the slider lies correctly in the docking end to guarantee tightness.

Cleaning

- Dirt particles, especially between the teeth, can affect the sealing lip and thus negatively affect the tightness and durability.
- We recommend a light soapy water and a fine brush.
- Do not use solvents or aggressive cleaning agents as these negatively affect the function of the zipper.

Lubrication

- WaterSeal zippers need to be lubricated from time to time.
- Apply gently the lubricating grease in the area of the docking end on the front and back, as well as on the inside at the transition to the zip chain.
- Do not use grease along the zipper chain.
- Remove remaining lubricating grease to avoid stains.
- Use the original TIZIP® lubricating grease.

Storage

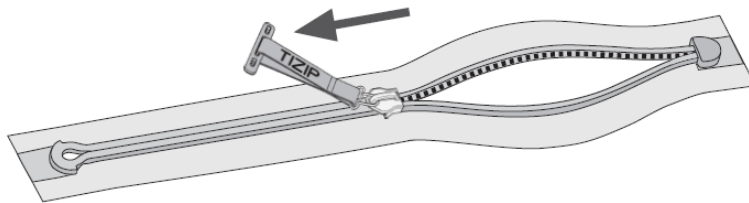
- TIZIP® zippers should be stored completely closed, dry, clean and without bending.

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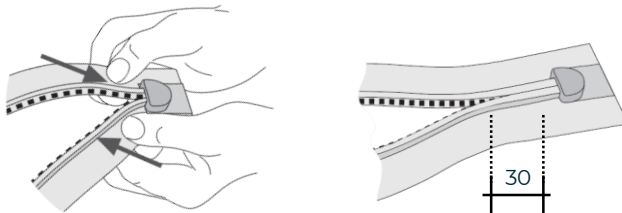
REPAIR MANUAL OVER-STRESSING



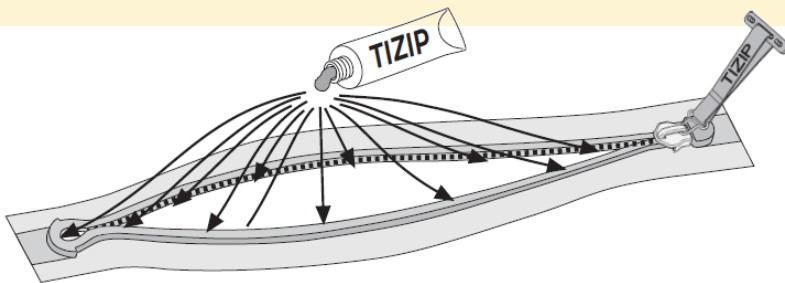
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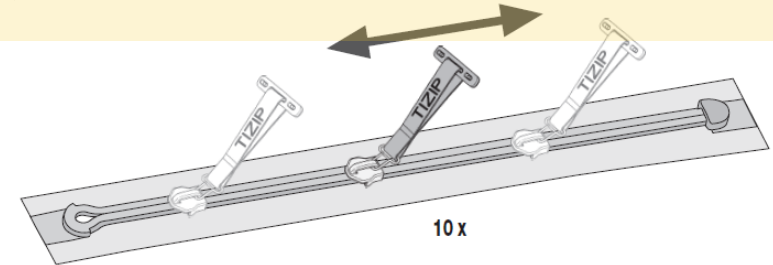
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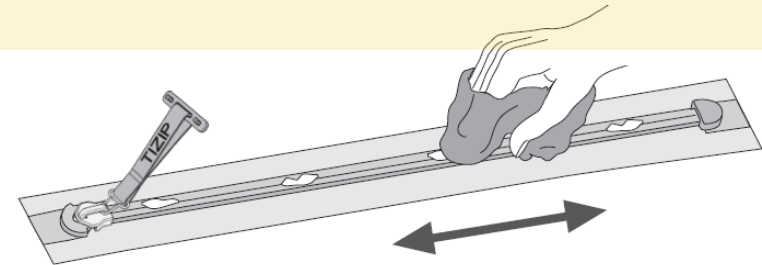
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4



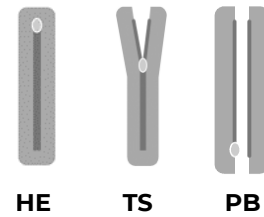
5



OVER-STRESSING

- If there is an overload during closing, it can happen that the chain remains open, but is not damaged.
- To repair, simply pull the slider back and close the zipper again with less lateral tension.
- If the chain is open up to the lower slider stop, the lower 3 cm must first be engaged by hand.
- Then slide the slider back into the restored area.

WATERSEAL CONFIGURATION

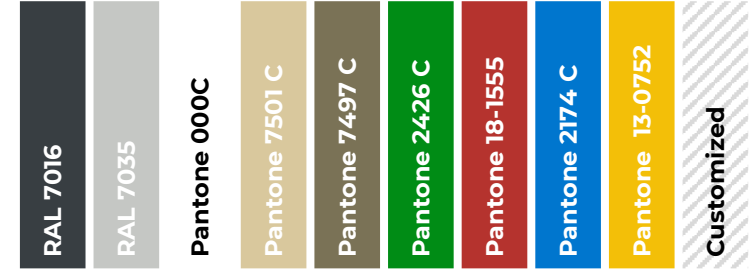
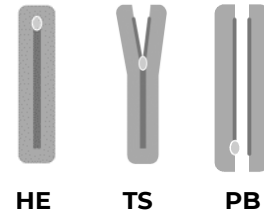


1.0 GEOMETRY (1)

1.1	L1 - Length	230 – 10.000 mm	<--- (more than 10.000 mm on request) ---->		
1.2	L2 - Overhang	25 / 25 mm	■		
1.3	L2 - Overhang	16 / 16 mm	□		
1.4	L2 - Overhang	10 / 25 mm		■	
1.5	L2 - Overhang	10/16 mm		□	
1.6	L2 - Overhang	10 / 10 mm			■
1.7	L2 - Overhang Customized	0-50 / 0-50 mm	□		

■ Standard □ Option

WATERSEAL CONFIGURATION

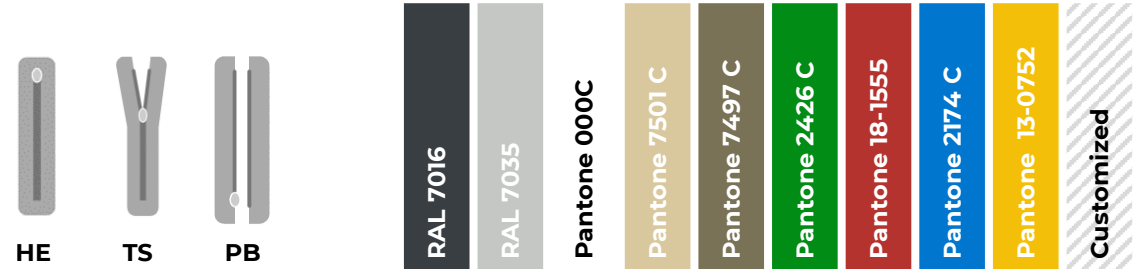


1.0 GEOMETRY (2)

1.8	L3 - Width	50 mm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1.9	L3 - Width	70 mm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

■ Standard □ Option

WATERSEAL CONFIGURATION



2.0 OPTIC

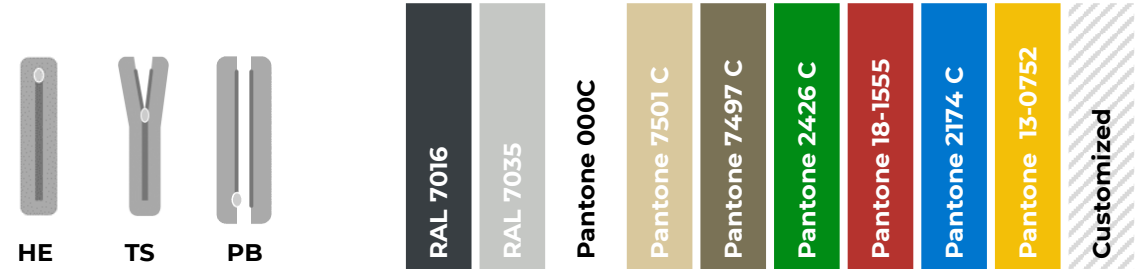
			HE	TS	PB	RAL 7016	RAL 7035	Pantone 000C	Pantone 7501 C	Pantone 7497 C	Pantone 2426 C	Pantone 18-1555	Pantone 2174 C	Pantone 13-0752	Customized
2.1	M5 - Tape	plain	■	■	■	■	□	□	□	□	□	□	□	□	□
2.2	M7 - Pattern	front side	■	■	■	■	□	□	□	□	□	□	□	□	□

3.0 SLIDER

			HE	TS	PB	RAL 7016	RAL 7035	Pantone 000C	Pantone 7501 C	Pantone 7497 C	Pantone 2426 C	Pantone 18-1555	Pantone 2174 C	Pantone 13-0752	Customized
3.1	M2 - Metal Slider		■	■	■	■	□	□	□	□	□	□	□	□	□
3.2	M2 - Polymer Slider		■	■	■	■	□	□	□	□	□	□	□	□	□

■ Standard □ Option

WATERSEAL CONFIGURATION

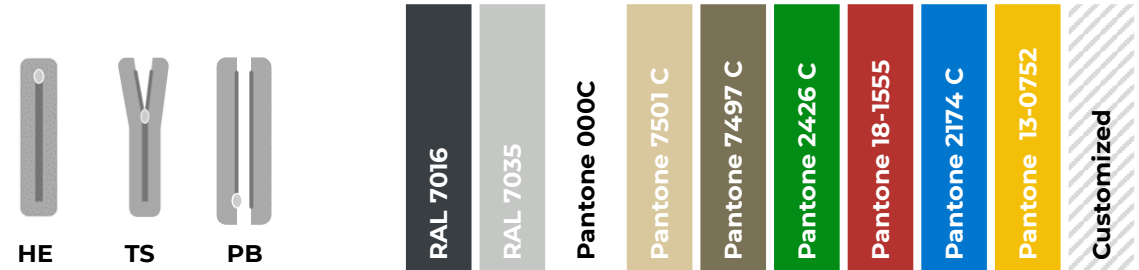


4.0 PULLER

			HE	TS	PB	RAL 7016	RAL 7035	Pantone 000C	Pantone 7501 C	Pantone 7497 C	Pantone 2426 C	Pantone 18-1555	Pantone 2174 C	Pantone 13-0752	Customized
4.1	M3 - Puller 35M	35 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.2	M3 - Puller 35C	35 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.3	Cord 12	12 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.4	Cord 14	14 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.5	M3 - Puller 70W	70 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.6	M3 - Puller 35W	35 mm		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4.7	M3 - Puller 10W	10 mm		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

■ Standard □ Option

WATERSEAL CONFIGURATION



5.0 OPTIONS

5.1	Puller Customized logo	only with 4.1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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■ Standard □ Option

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