

# Seismic Transflex® 1600 - 3200

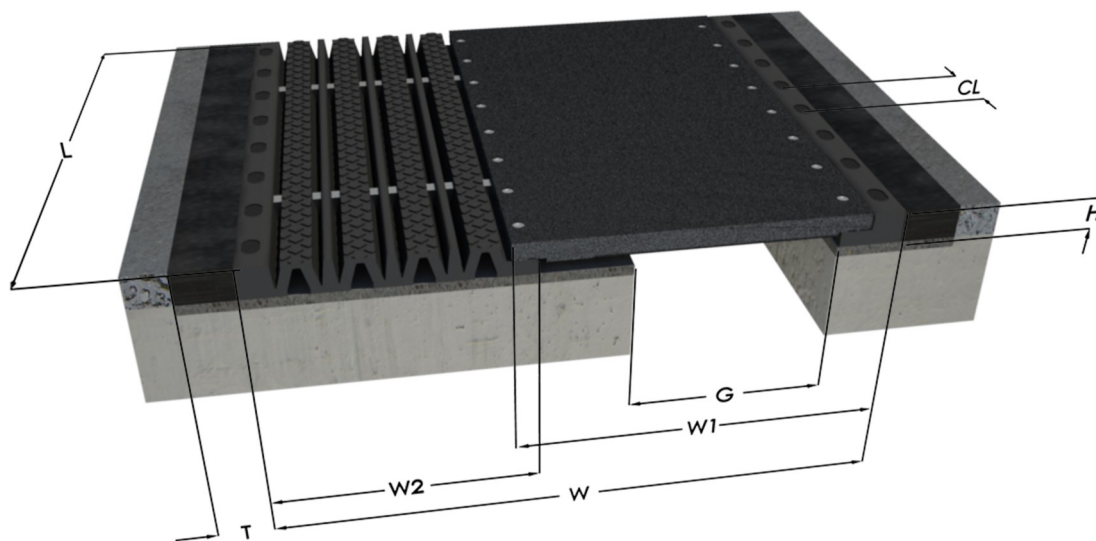
## High Movement bridge expansion joints

The demand of expansion joints that support larger movement ranges increases, as the span of new structures increases. The answer to this challenge is this Seismic Transflex® model, suitable not only for structures in seismic areas, but also for bridges and viaducts with large spans.

The Seismic Transflex® expansion joints consist of two modules. The movement module which is the “mobile” section of the joint, made of rubber and steel, aimed to accommodate the expected movements. And the bridging module which is the “fixed” section of the joint, aimed to bridge the structural opening.

The Seismic Transflex® expansion joints allow absorbing large movements, while providing remarkable comfort to traffic, effective sealing, low maintenance and easy replacement.

**High Movement Seismic Transflex® models are numbered from 1600 to 3200, and cover a movement range from 350mm to 720mm.**



Models			Module									Stud		
	Movement (mm)	Transversal Movement (mm)	L (mm)	H (mm)	W (mm)	W1 (mm)	W2 (mm)	Wgt. (kg)	CL (mm)	G (mm)	T (mm)	Mxb (mm)	Øa (mm)	b1 (mm)
<b>1600 S</b>	350 (±175)	200 (±100)	1600	85	1280	675	675	460	200	220	170	M-20 x 200	22	55
<b>2000 S</b>	450 (±225)	284 (±142)	1600	85	1520	775	815	585	200	270	170	M-20 x 200	22	55
<b>2400 S</b>	540 (±270)	340 (±170)	1600	85	1760	875	955	710	200	320	170	M-20 x 200	22	55
<b>2800 S</b>	630 (±315)	388 (±194)	1600	85	2000	975	1095	765	200	370	170	M-20 x 200	22	55
<b>3200 S</b>	720 (±360)	444 (±222)	1600	85	2240	1075	1235	930	200	420	170	M-20 x 200	22	55

W1: Length of the bridging module

W2: Length of the movement module

CL: Longitudinal distance between anchors

G: Maximum structural gap of the Transflex element at installation

T: Transition width

M: Bolt diameter

Øa: Bolt hole diameter

b1: Recommended height of the bolt over the mortar bed

# Seismic Transflex® 1600 - 3200

## High Movement bridge expansion joints

The Transflex® range is supplied in modules of specific length to be anchored to both sides of the structural joint.

Special pieces for kerbs, walkways, skewed ends or any road contour can be manufactured for any Transflex® model.

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### Main applications:

- ◆ Structures with movement range between 350 mm and 720 mm
- ◆ Large structures with longitudinal and transverse movements
- ◆ Viaducts and bridges in seismic areas

### TECHNICAL DATA:

Elastomer properties	Value	Test method
Hardness	62±5 Shore A	ASTM D2240
Tensile strength	>160 kgs/cm <sup>2</sup>	ASTM D412/NFT46002
Elongation at break	>425%	ASTM D412/ NFT46002
Rubber-steel adhesion	11,8 min N/mm	ASTM D429 Method B
Low temperature resistance	-30°C	ASTM D2137
Ozone resistance	No cracks	ASTM D1149 Method B 25 ppcm (48 hours at 38 °C)
Compression set	35% max def	ASTM D395 Method B (24 hours at 70 °C)
Thermal aging	< 5 Shore A -15% Tensile strength -25% Elongation at break	ASTM D573 hot air (70 hours at 70 °C)
Resilience	50%	DIN 53512

### Metal component:

Steel fabricated acc. ASTM Type A36 DIN 17-100 Type ST 37-2 — reinforcements of the mobile module

Steel fabricated acc. ASTM Type A572 S355 — bridging plate

#### Notes:

- We strive to provide reliable technical information of our products. Recommendations or advice on their use have been made in good faith based on our experience. However, it is the user or designer responsibility to ensure that each product satisfies the intended purpose and conditions for use are adequate.
- Values stated in this datasheet correspond to mean laboratory test results and are only indicative.
- Whilst all reasonable care is taking in compiling technical data on the company's products, some changes might take place or some figures might be wrong with no responsibility for Trelleborg IZARRA. Also all recommendations or suggestions regarding the use of any products are made without guarantee since the conditions of use are beyond the control of the company. It is the customer's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it and hat the actual conditions of use are suitable.



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