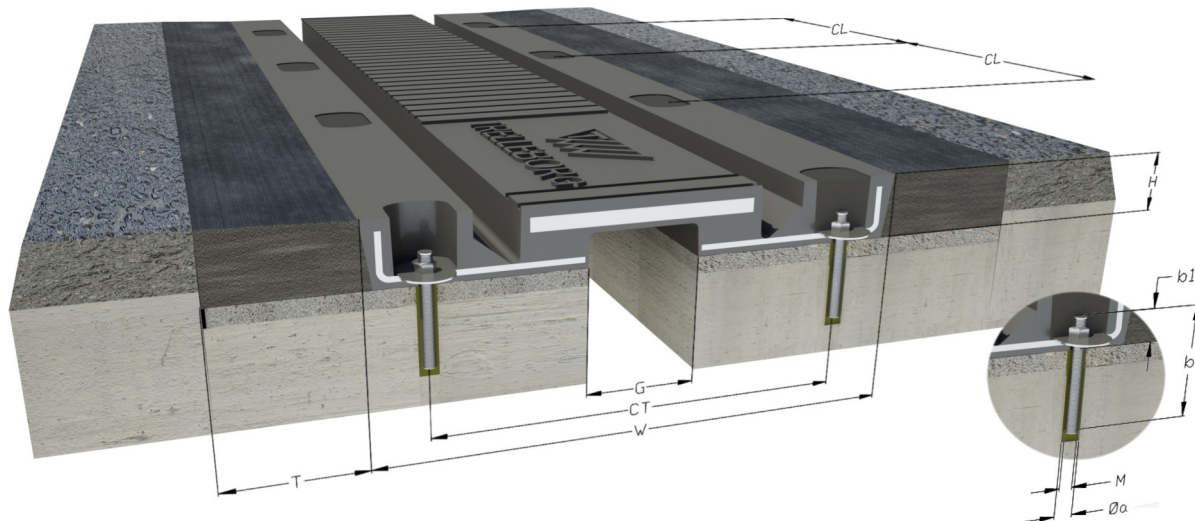


Transflex® TR 50 - TR 180

Bridge expansion joints

The Transflex® design is based on steel reinforced rubber modules, which absorb expansion, contraction, translation and rotation movements with remarkable comfort to traffic, effectively sealed, low maintenance and easy replacement.

Transflex® models are numbered from TR 50 to TR 180, and cover a movement range from 50mm to 180mm, and oblique movements of up to 90° of skew.



Models			Module								Stud		
	Movement (mm)	Transversal Movement (mm)	L (mm)	H (mm)	W (mm)	Wgt. (kg)	CT (mm)	CL (mm)	G (mm)	T (mm)	Mxb (mm)	Øa (mm)	b1 (mm)
TR 50	50 (±25)	50 (±25)	1750	35	240	25	190	250	40	70	M-12 x 150	14	27
TR 80	80 (±40)	80 (±40)	1830	40	274	37	220	305	55	80	M-14 x 150	16	32
TR 110	110 (±55)	110 (±55)	1830	46	356	56	279	305	70	92	M-14 x 150	16	40
TR 140	140 (±70)	140 (±70)	1830	54	432	78	342	305	85	108	M-16 x 170	18	42
TR 180	180 (±90)	180 (±90)	1830	66	470	106	390	305	105	132	M-16 x 170	18	45

CT: Transverse distance between anchors.

CL: Longitudinal distance between anchors.

G: Maximum structural gap of the Transflex element at installation.

T: Transition width.

M: Bolt diameter.

b1: Recommended height of the bolt over the mortar bed.

*The longitudinal and transversal movements shown in the table can be performed simultaneously.

*Transflex models TR 50 - TR 180 are capable of absorbing vertical movements of up to 2 cm.

Transflex® TR 50 - TR180

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.

Please, contact us at: expandite@trelleborg.com

Main applications:

- ◆ Bridges with movement range less than 180 mm
- ◆ Medium size structures
- ◆ Car parks
- ◆ Pedestrian bridges
- ◆ 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 ²	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 A572 S355

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 taken 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 that the actual conditions of use are suitable.



Trelleborg Izarra, S.A.

C/Sierra de Algodonales, 12-14, - 28500 Arganda del Rey (Madrid) - España

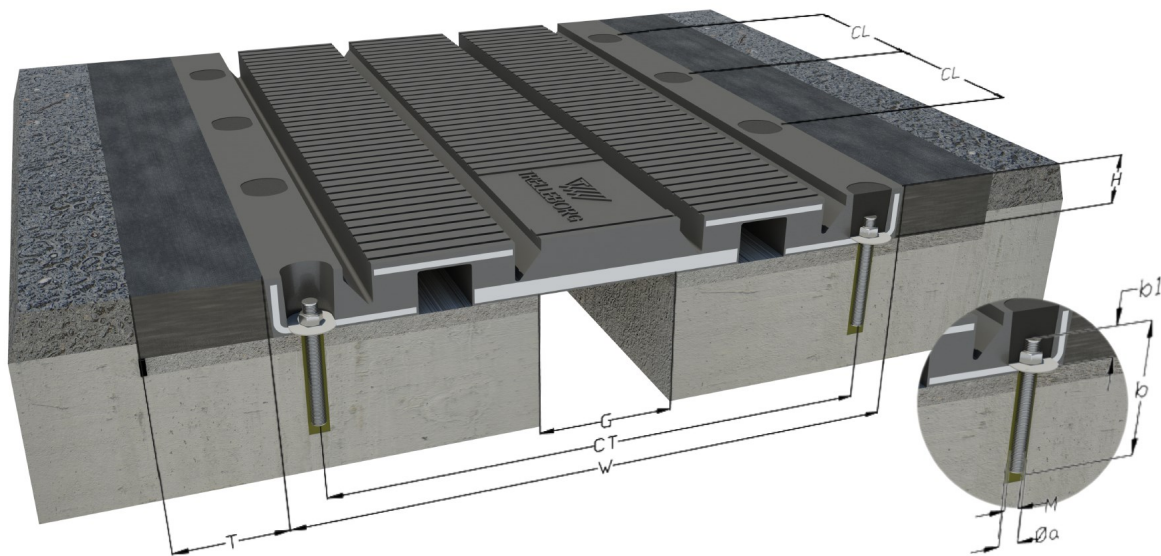
Tel.: +34 91 870 17 00 - Fax: +34 91 870 34 65 - expandite@trelleborg.com - www.trelleborg.com/transflex

Transflex® TR 270 - TR 380

Bridge expansion joints

The Transflex® design is based on steel reinforced rubber modules, which absorb expansion, contraction, translation and rotation movements with remarkable comfort to traffic, effectively sealed, low maintenance and easy replacement.

Transflex® models are numbered from TR 270 to TR 380, and cover a movement range from 270mm to 380mm, and oblique movements of up to 90° of skew.



Models	Module										Stud		
	Movement (mm)	Transversal Movement (mm)	L (mm)	H (mm)	W (mm)	Wgt. (kg)	CT (mm)	CL (mm)	G (mm)	T (mm)	Mxb (mm)	Øa (mm)	b1 (mm)
TR 270	270 (±135)	270 (±135)	1830	73	888	273	798	305	155	146	M-20 x 200	22	50
TR 380	380 (±190)	380 (±190)	1830	96	1202	445	1091	305	210	192	M-24 x 220	26	60

CT: Transverse distance between anchors.
 CL: Longitudinal distance between anchors.
 G: Maximum structural gap of the Transflex element at installation.
 T: Transition width.
 M: Bolt diameter.
 b1: Recommended height of the bolt over the mortar bed.

*The longitudinal and transversal movements shown in the table can be performed simultaneously.
 *Transflex models TR 270 and TR 380 are capable of absorbing vertical movements of up to 2 cm.

Transflex® TR 270 - TR 380

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.

Please, contact us at: expandite@trelleborg.com

Main applications:

- ◆ Structures with movement range between 270mm and 380mm
- ◆ Large structures
- ◆ 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 ²	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 A572 S355

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 taken 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 that the actual conditions of use are suitable.



Trelleborg Izarra, S.A.

C/Sierra de Algodonales, 12-14, - 28500 Arganda del Rey (Madrid) - España

Tel.: +34 91 870 17 00 - Fax: +34 91 870 34 65 - expandite@trelleborg.com - www.trelleborg.com/transflex