

mageba – Expansion joints for buildings, internal and external areas





Expansion joints prevent structural corrosion and damage to surfacing

Movements resulting from thermal expansion and loading changes must be accommodated

The lengths of structural elements, and of superstructures in particular, change as a result of materials shrinkage, temperature fluctuations and loading variations - perhaps many times in the course of their lives. To avoid surface cracking and possibly more serious damage, the length of each individual structural element is often limited, with gaps between elements to allow movements. These gaps must be bridged over, and made trafficable if appropriate, in every state of expansion. Expansion joints of steel or aluminium offer well-proven solutions. These facilitate variations in length without constraints and cracking, protect the surfaces of adjacent structural elements, and, if necessary, prevent the ingress of water.

Watertightness is a key requirement

The watertightness of an expansion joint is determined not only by that of the *joint itself* but also by that of its *connection to the waterproofing system* of the supporting structure at each side. Details such as wall connections and T-joints present potential weak points and must be made just as watertight as the rest of the joint. Water is unforgiving of half-hearted solutions.

Serviceability can be affected

Cracking of a structure or its surfacing, or ingress of water, can lead to *serious structural damage*, and may result in *consequential damages* such as interruption of production and warehousing or water damage to goods.

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Corrosion damage to the underside of a slab in a multi-storey car park, resulting from a poorly executed, non-watertight expansion joint Damage to surfacing resulting from the lack of



Cover photograph:

Project: Néstlé Head Office,

Vevey, Switzerland

Requirement: Expansion joints for

internal and external

areas

Solution: TENSA®BASE, MIGUTAN®

Installation

year: 2003/2012

an expansion joint



Solutions for all applications

Retail space

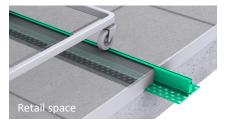
The shopping experience should not be tarnished by unattractive structural details. mageba offers *aesthetically pleasing*, *well-proven solutions* for expansion joints in floors, walls and ceilings. A wide range of colours is available, and the profiles can be fabricated from various materials. Stainless steel, corrosion-protected steel and aluminium are *durable*, *high-quality materials* that can be seamlessly integrated into any architectural concept. Are you interested in *special surfaces or colours*? We can make it possible. Contact us!

Manufacturing and storage areas

Fork-lift trucks, whether with hard or air-filled tyres, subject expansion joints to very high loading. Leaking water, joints which can only be driven across with care (if at all), and spalling edges of connecting surfacing can become a source of *lasting inconvenience for operations*. In such cases, mageba's *durable solutions* for such *highly loaded flooring* are called for. *Significant consequential costs* resulting from *damage to goods* and *interruptions to operations* can thus be avoided. mageba also offers comprehensive professional *condition assessments and support* in determining appropriate solutions.

Office and residential buildings

Carpets, parquet flooring, linoleum and other surfacing materials must be split at the structure's expansion joints. The edges of the surfacing materials are weak points and can thus be subjected to only minimal mechanical demands. mageba offers solutions which satisfy the *highest aesthetic demands*, as demonstrated by many *hotel reference projects*. These joints with small movements are considered by many to be technically simple and are thus often *underestimated*. However, they can be subjected to *high loading from rolling suitcases, file trolleys* and so on.



Multi-storey car parks and access ramps

Multi-storey car parks and access ramps present particular challenges for expansion joints. Joints must be watertight and resistant to significant chemical contami**nation** from de-icing salt, petrol and oil. In external areas they must also be able to withstand all kinds of weather. The German concrete and construction technology association (DBV) recommends that horizontal joints should be continued in vertical direction without any offset. For this, mageba offers well-conceived detail solutions which can enable every transition and change of direction to be created with the same high quality. By combining expansion joint and drainage as one, costs and space can be saved. Compression joint profiles can be combined with horizontal joints. This may lead to significant savings in costs and installation time.



Laboratories, hospitals and the food processing industry

Hygiene is of paramount importance in hospitals, laboratories and food processing facilities. Therefore, mageba has developed, together with its partners, solutions which enable the expansion joints used in such buildings to be *easily and thoroughly cleaned*, and where demands are especially high, to have their *insert profiles easily replaced* as often as necessary. This is achieved by the use of *flat-topped* inserts and *high-quality metal*, and by *innovative joint designs*.



Trans-shipment centres and chemical or pharmaceutical plants

Chemicals can quickly cause damage to the inserts of expansion joints, resulting in diminished fitness for purpose — if the material used is not carefully selected. Resistance to chemical substances must therefore be properly considered. For insert profiles, mageba uses only selected highly-resistant materials, and for the supporting edge profiles, high-quality stainless steel. We will be happy to support you in selecting an expansion joint to suit your needs.









mageba reconciles your aesthetic and technical needs in a single solution

Geometrical specifikation

- maximum gap width bf,max
- Visible width bs
- Total joint width bt
- Joint height h
- Joint movements in all directions (x, y and z axes)
- · Thermal movements
- Earthquake movements

Overview of demands

- Load carrying capacity
- Watertightness of the joint and its connections at each side
- Thermal expansion and eathquake movements
- Suitability for pedestrian traffic (e.g. with high-heeled shoes)
- Resistance to aggressive substances
- · Avoidance of vibrations
- Prevention of damage to connecting surfacing
- Aesthetics

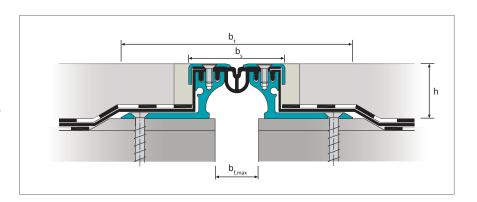
Special requirements

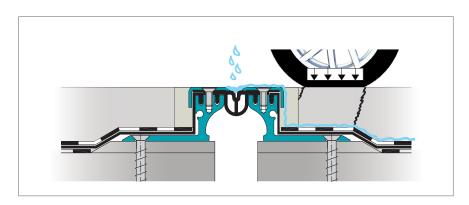
Special *hygiene needs*, such as arise in hospitals or the food processing industry, call for profiles with a smooth, flat surface that can be easily cleaned. Chemical and pharmaceutical industry buildings, and trans-shipment centres, require expansion joints with *high resistance* to aggressive substances. In such cases, edge profiles of stainless steel and inserts of highly resistant compounds must be used.

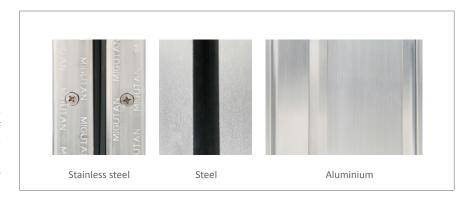
In particularly noise-sensitive areas, or where delicate goods are transported (such as in a glass factory), special *low-vibration*, *low-noise expansion joints* are needed.

Aesthetics

The high-quality materials used and the wide range of colours available for the inserts enable the expansion joints to be virtually perfectly integrated in the floor surfacing. Please ask us about the possibilities!











Well-proven solutions, also for special needs

Loading demands and strength

When it comes to traffic, *the magnitude of vehicle wheel loads* is not the only factor affecting an expansion joint; another is the type of wheel. *Steel rollers* can cause *much higher pressures* on a joint than air-filled tyres, and if in constant use, can quickly result in *severe damage* to the joint or the connecting surfacing.

For all mageba products, *details of load carrying capacity* can be found in the appropriate *product brochure*.

In advising you about the options to fulfil your needs, mageba will consider all factors influencing load carrying capacity, with attention to the required service life. We can also, on request, *determine the loading on the joint from special vehicles*.

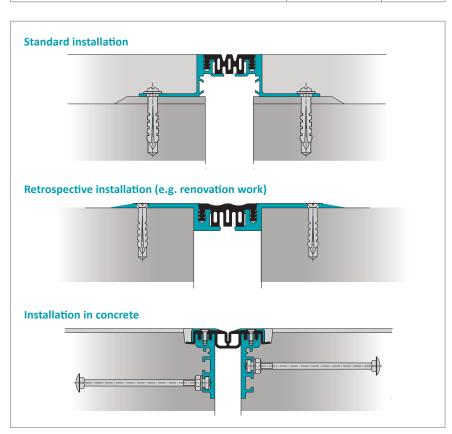
Load classes

In the adjacent table you can find the load classes for trafficable surfaces in accordance with EN124 , Gully tops and manhole tops for vehicular and pedestrian areas, and DIN 1229, Unit weights for gully tops and manhole tops for vehicular and pedestrian areas.

Installation possibilities

In new construction, expansion joints are *generally installed on a mortar bed*. In the case of renovations, this is rarely possible, so mageba also offers profiles for *retrospective installation* on existing floors and walls. Concreting in place arises in particular where the joint is *directly installed in a concrete structural element* or is used in granolithic floor screeds.

Load class A Areas which can only be used by pedestrians and pedal cyclists	₫Ò	Proof load 15 kN
Load class B Footways, pedestrian areas and comparable areas. Car parking surfaces and car parking decks	•	Proof load 125 kN
Load class D Carriageways of roads (including pedestrian streets), hard shoulders of roads and parking areas, which are permitted for all types of road vehicle		Proof load 400 kN
Load class E Areas that are subjected to high wheel loading, e.g. docks, airport pavements		Proof load 600 kN
Load class F Areas that are subjected to particularly high wheel loading, e.g. airport pavements	>	Proof load 900 kN





Expansion joints require proper planning

Planning

Application area, floor surfacing, slab construction and the location of the structure's sealing level are just a few of the many factors that must be considered in selecting a suitable expansion joint and planning its installation. Thanks to several decades of experience, mageba is well qualified to support and advise you in this.

mageba expansion joints are prefabricated and pre-assembled

mageba expansion joints are fabricated in accordance with as-built construction measurements, and assembled a first time in the factory. This ensures that the joints can be installed without any difficulties, and that watertightness will not be compromised by avoidable site adaptations.

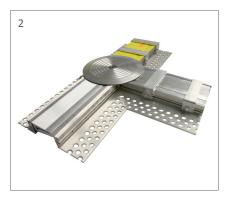


Expansion joint systems

The quality and durability of an expansion joint system depends greatly on its design and detailing. A good system thus includes *preformed detail and connection pieces, supplemental components and installation aids*. mageba does not leave anything to chance, and takes the responsibility of supplying a quality product seriously.

Whether crossings, T-junctions, or level changes, mageba offers a perfect solution for every part of the joint, with pre-formed detail pieces. A *plug-in system*, capable of *transmitting transverse forces*, connects the detail pieces to the straight profiles, simply and securely.

For expansion joints that are designed to be watertight, a continuous sealing profile is used along the full length of the joint, with long or short connection membrane at each side to suit requirements.



Special designs

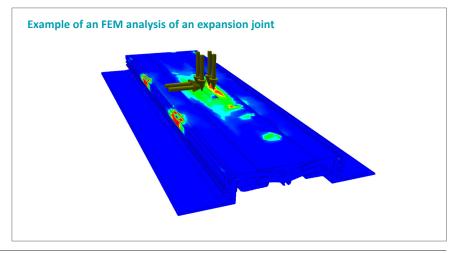
mageba can manufacture expansion joints of any size, tailored to given dimensions and to suit project-specific requirements. We can provide varied colours of edge profiles and inserts, engraving in the surface, or joints with integrated drainage channel – to name just a few examples.

- 1 Pre-assembly of an expansion joint in production facility
- 2 Prefabricated (waterproof T-junction) for a MIGUTANS aluminium joint
- 3 High load capacity TENSA®GRIP FAB joint with drainage channel



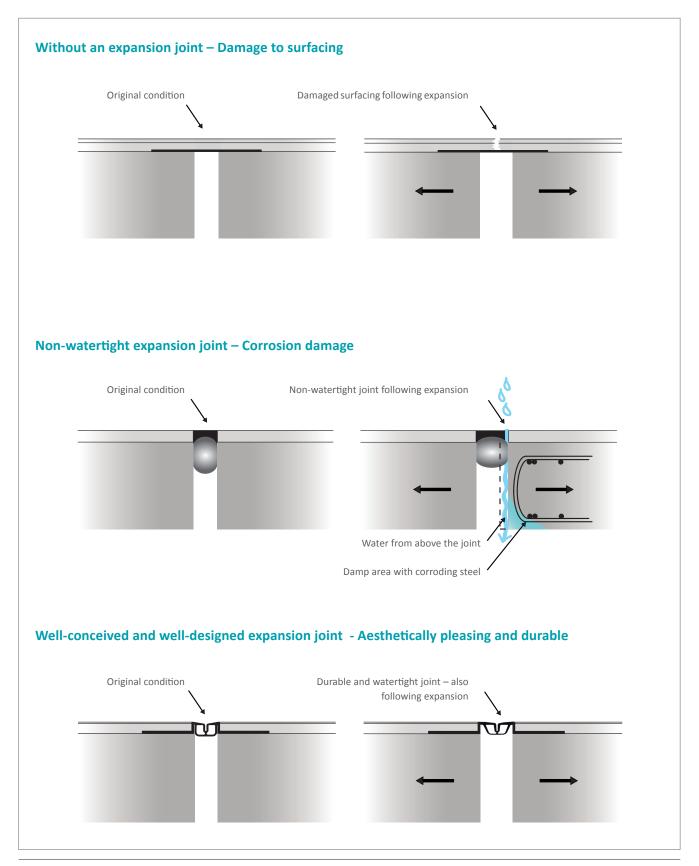
Research and development

The durability of an expansion joint is heavily dependent on the *quality of the materials used* in its manufacture. mageba and its partners invest a great amount of time in *developing high-quality materials* for the edge profiles and the inserts. By means of FEM analysis, the *load carrying performance of the profiles is simulated*, enabling their long-term ability to withstand the specified loading to be verified.





Well-designed expansion joints are durable and prevent structural damage





Our thermal expansion joint products...

TENSA®GRIP

FAB, RB Types 20-25 mm Max. gap width Max. movement ±5 mm 80-90 mm Profile height

TENSA®COMPRESS

Types A,N Max. gap width 16-135 mm Max. movement 4-65 mm Profile height 16-100 mm

Standard floor joints

Types FL, FLK, FLT, FV, FT, FP Max. gap width 100 mm Max. movement ±20 mm 15 - 20 mm Profile height

Joints for aggressive substances

Types ES Max. gap width 50 mm Max. movement +10/-6 mm Profile height 15 - 90 mm

Joints in hygienic areas

FLG, FPG, FG, ESG, FNG Types Max. gap width 50 mm Max. movement ±4 mm Profile height 20-105 mm

Joints for rehabilitation, renovation or modernisation works

FTN, FN, FKN Types Max. gap width 100 mm Max. movement ±30 mm Profile height 12-40 mm

Field-limiting and contraction joints

Types Max. gap width 15 mm Max. movement ±5 mm Profile height 30-60 mm

Wall and ceiling joints

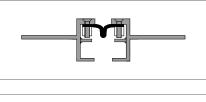
Types D, DE, FA, FAE, WP, KF, FB, CP, FA Max. gap width 350 mm Max. movement ±100 mm 12-70 mm Profile height

Joints for elevated loading conditions

Types Max. gap width 114 mm Max. movement ±25 mm Profile height 20-97 mm









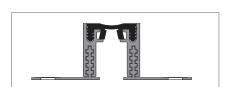








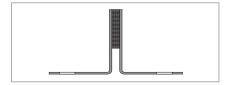






















...at a glance

Joints for high loading conditions

Types FS, FSV
Max. gap width 150 mm
Max. movement ±30 mm
Profile height 15-140 mm

Joints for retrospective installation

Types FSN Max. gap width 240 mm Max. movement ±30 mm Profile height 15-97 mm

Joints for vibration-free crossing

Types FS, FSS, STS, STD

Max. gap width 60 mm

Max. movement ±20 mm

Profile height 23-50 mm

Joints for maximum loading conditions

Types STS

Max. gap width 15 mm

Max. movement ±5 mm

Profile height 17-62 mm

Joints for maximum loading conditions, watertight

Types STD Max. gap width 60 mm Max. movement ± 20 mm Profile height 31-62 mm

Joints for use with bituminous sealing systems

Types FP, FPG, FPI
Max. gap width 120 mm
Max. movement ±60 mm
Profile height 25-117 mm

Joints for use with coating systems

Types FP, FPG, FPI, FPL

Max. gap width 120 mm

Max. movement ±60 mm

Profile height 25-117 mm

Joints for use with alternative sealing systems

Types FP, FPG
Max. gap width 120 mm
Max. movement ±60 mm
Profile height 27-117 mm

Joints for concreting in place

Types FPG, FPI, FPL
Max. gap width 118 mm
Max. movement ±60 mm
Profile height 75-100 mm









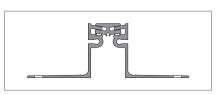


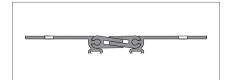


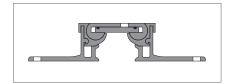


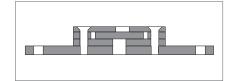


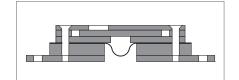








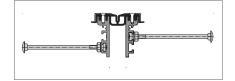














Our earthquake expansion joint products...

Joints for extremely high movements

Types SDPP 65
Max. gap width 100-500 mm
Max. movement ±640 mm
Profile height 55 mm

Joints for easy installation

Types SDFP 65, 85, 105
Max. gap width 150-500 mm
Max. movement ±175 mm
Profile height 55 mm

Joints for all types of finishes

Types SDP 55, 63

Max. gap width 150-500 mm

Max. movement ±100 mm

Profile height 35-50 mm

Joints for flexible use

Types SP 55, 63

Max. gap width 100-450 mm

Max. movement ±72 mm

Profile height 20 mm

Joints for heavy loads

 Types
 FSV 280,285,500

 Max. gap width
 200-400 mm

 Max. movement
 ±200 mm

 Profile height
 27-130 mm





...at a glance

Best protection against seismic movements

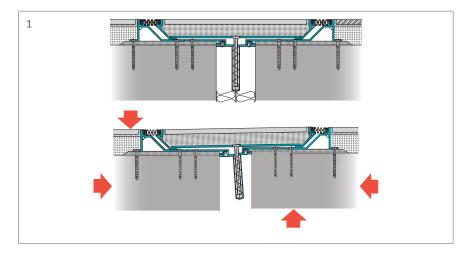
Earthquakes occur along the border of tectonic plates, and every year there are about 500'000 of them, from which actually 100'000 can be felt. The largest part of them takes place along the 40'000km long circum-pacific seismic belt, known as the pacific ring of fire.

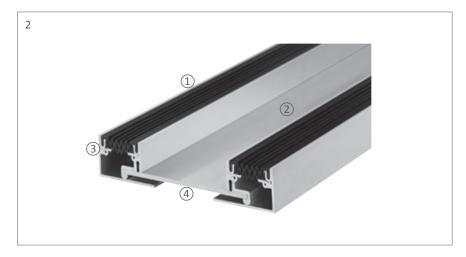
In recent years there have been mayor earthquakes in Indonesia, Japan, Thailand and China causing thousands of casualties and severe damages to infrastructures and buildings.

Migumax earthquake-resistant expansion joints are designed for extremely high movements and are easy to install. They eliminate or minimize structural damage and, more importantly, save lives.

mageba offers a wide range of earthquake-resistant expansion joint systems:

- SDPP: designed for extremely high movement, optimal use of all types of finishes
- SDFP: designed for easy installation with high movement capacity. Insert replaceable at any time. Sturdy middle section with special bearing ensures 3D-movement
- SDP: cost-effective and long-term solutions, designed for all types of finishes, with replaceable inserts and advanced technologies for friction free 3D-movements
- SP: designed for flexible use with inserts extensively resistant to oil, acids and bitumen. Efficient load-bearing capacity ensured by special profile cores
- FSV: sturdy aluminum frame designed for heavy loads. Maintenance free and robust





- 1 Migumax expansion joint before and during a seismic event
- 2 Migumax SDFP 85 designed for easy installation
- ① Full movement capability with minimum visibility
- ② Flush joint cover concealed in the surrounding
- 3 Insert replaceable at any time
- 4 Sturdy middle section with bearing for horizontal and vertical movement



Selection of expansion joint profiles - TENSA®, MIGUTEC®

		Application area ①								Construc			
	Joint type	Retail space	Manufacturing and storage areas	Office and residential buildings	Multi-storey car parks and access ramps	Laboratories, hospitals and the food processing industry	Trans-shipment centres and chemical or pharmaceutical plants	Walls and ceilings	New construction	Renovation	Internal areas	External areas	Edge profile material
	TENSA-GRIP FAB	-	Х	-	Χ	-	-	-	Х	-	Х	Х	Galvanised steel
	TENSA-GRIP FAB ES TENSA-GRIP RB	-	X	-	X	-	-	-	X	-	X	X	Stainless steel Galvanised steel
TENSA	TENSA-GRIP RB ES	-	X	-	X	-	-	-	X	-	X	X	Stainless steel
F	TENSA-BASE	Х	-	-	Х	-	-	-	Х	-	Х	Х	Aluminium
	TENSA-COMPRESS A	Х	-	-	Х	-	Х		Х	Х	Х	Х	Elastomer
	TENSA-COMPRESS N	-	-	-	-	-	-	Х	X	X	X	X	Elastomer
	FL 21 FLK 21	X	-	X	-	-	-	-	X	-	X	-	Aluminium Aluminium
	FLT 21	X	-	X	-	-	-	-	X	-	X	-	Aluminium
	FV 35	Х	-	Х	-	-	-	-	Х	-	Х	-	Aluminium
	FV 41	Х	-	X	-	-	-	-	Х	-	Х	-	Aluminium
	FK 35	X	-	X	-	-	-	-	X	-	Х	-	Aluminium
	FT 35 FP 55	X	-	X	-	-	-	-	X	-	X	-	Aluminium Aluminium
	FP 55	X	-	X	-	-	-	-	X	-	X	-	Aluminium
	FP 55 MS / Ni	X	-	X	-	-	-	-	X	-	X	-	Aluminium
	FP 65	Х	-	Х	-	-	-	-	Х	-	Х	-	Aluminium
	FP 65 MS	Х	-	Х	-	-	-	-	Х	-	Х	-	Aluminium
	FP 85	X	-	X	-	-	-	-	X	-	X	-	Aluminium
	FP 105 FP 55 B 4S	X	-	X	-	-	-	-	X	-	X	-	Aluminium Aluminium
	FN 20	X	-	X	-	-	-	-		X	X	-	Aluminium
	FKN 20	X	-	X	-	-	-	-	-	X	X	-	Aluminium
	FN 35	Х	-	Χ	-	-	-	-	-	X	Х	-	Aluminium
	FKN 35	Х	-	Х	-	-	-	-	-	X	Х	-	Aluminium
	FN 50	X	-	X	-	X	-	-	-	X	X	-	Aluminium
	FKN 50 FN 110	X	_	X	-	X	-	-	-	X	X	-	Aluminium Aluminium
	ES 20	-	-	-	-	X	Х	-	Х	-	X	-	Stainless steel
	ES 33	-	-	-	-	Х	Х	-	Х	-	Х	-	Stainless steel
	ES 39	-	-	-	-	X	Х	-	Х	-	Х	-	Stainless steel
	ES 60	-	-	-	-	X	X	-	X	-	X	-	Stainless steel
MIGUTEC	FLG 21 FPG 26 NI	-	-	-	-	X	-	-	X	-	X	-	Aluminium Aluminium
9	FG 35	-	-	-	-	X	-	-	X	-	X	-	Aluminium
Ξ	FG 41	-	-	-	-	Х	-	-	Х	-	Х	-	Aluminium
	FPG 55	-	-	-	-	Х	-	-	Х	-	Х	-	Aluminium
	ESG 20	-	-	-	-	X	-	-	Х	-	Х	-	Stainless steel
	ESG 33 ESG 39	-	-	-	-	-	-	-	X	-	X	-	Stainless steel Stainless steel
	ESG 60	-	-	-	-	-	-	-	X	-	X	-	Stainless steel
	FNG 20	-	-	-	-	-	-	-	X	-	X	-	Aluminium
	FNG 35	-	-	-	-	-	-	-	Х	-	Х	-	Aluminium
	FNG 41	-	-	-	-	-	-	-	X	-	X	-	Aluminium
	FNG 50	- V	-	- V	-	-	-	-	X	-	X	-	Aluminium Stainless steel
	ESF 8 ES ESF 9 ZK	X	-	X	-	-	-	-	X	-	X	-	Stainless steel Stainless steel
	ESF 22 NI	X	-	X	-	-	-	-	X	-	X	-	Stainless steel
	ESF 10 AL	Х	-	X	-	-	-	-	Х	-	Х	-	Stainless steel
	ESF 16 Al	Х	-	Х	-	-	-	-	Х	-	Х	-	Stainless steel
	ESF 27 AL	X	-	X	-	-	-	-	X	-	X	-	Stainless steel
	D 12 D 15	X	-	X	-	-	-	X	X	-	X	-	Aluminium
	D 20	X	-	X	-	-	-	X	X	-	X	-	Aluminium Aluminium
	FA 25	X	-	X	-	-	-	X	X	-	X	-	Aluminium
	FA 12	Х	-	X	-	-	-	Х	Х	-	Х	-	Aluminium
	DF 35 / 40 / 50 / 58	Х	-	X	-	-	-	Х	Х	-	Х	-	Aluminium
	WP 255	X	-	X	-	-	-	X	X	-	X	-	Aluminium
	KF 55 KF 250	X	-	X	-	-	-	X	X	-	X	-	Aluminium Aluminium
	FB 20	X	-	X	-	-	-	X	X	-	X	-	Aluminium
	CP 25, 50	Х	-	Х	-	-	-	Х	Х	-	Х	-	Aluminium



Selection of expansion joint profiles - TENSA®, MIGUTEC®

		Properties (Joint geometry ③					
	Loading lev	el from traffic*			Gap width	Joint height		
Cars [B]	Trucks [E]	Fork-lift trucks [D]	Hardrollers [n/a]	Watertight	[mm]	[mm]	[mm]	[mm]
				Yes				
				Yes				
				-				
				Yes -				
V				-	20	24	.2/2	20.50
X	-	-	-	-	20	21	+3/-2 +3/-2	20-50 20-50
Χ	-	-	-	-	20	21	+3/-2	20-50
X	- X	-	-	-	30 35	35 41	10±5 14±7	15-105 15-105
X	-	-	-	-	30	35	10±5	15-105
Х	-	-	-	-	30	35	10±5	15-105
X	- X	-	-	-	50 58	55 63	16±8 22±11	20-75 20-70
X	X	-	-	-	50-58	57-65	22±11 22±8	21-76
Χ	X	-	-	-	55	65	22±11	20-50
X	X	-	-	-	55 75	67 82	22±11 30±15	21-51 20-50
X	X	-	-	-	100	109	40±20	20-50
Χ	Х	-	-	-	60	63	22±11	53-54
X	-	-	-	-	20	97	5 +3/-2	12
X	-	-	-	_	30 35	33 112	10±5 10±5	15-50 13
Х	-	-	-	-	35	30	10±5	13
X	-	-	-	-	50	43	30±8	16-18
X	-	-	-	_	50 75	170 318	16±8 60±30	16 40
Х	-	-	-	-	20	20	5 +3/-2	20-50
X	-	-	-	-	30	33	10±5	15-50
X	-	-	-	-	35 40-50	39 60	14±7 16 +10/-6	15-50 19-55
Χ	-	-	-	-	20	21	2±1	107-111
X	X -	-	-	-	30	27 35	2±1 6±3	35 15-105
X	-	-	-	-	35	41	6±3	15-105
Χ	Х	-	-	-	50	55	8±4	20-75
X	-	-	-	-	30	33	2±1 6±3	20-50 15-50
X	-	-	-	-	35	39	6±3	15-50
Х	-	-	-	-	40	60	8±4	19-55
X	-	-	-	-	20 35	97 112	2±1 6±3	12 13
X	-	-	-	-	41	118	6±3	13
Χ	-	-	-	-	50	43	8±4	16
X	X	X	-	-	5	9	2±1 2±1	30-50 30-50
X	X	X	-	-	12	22	4±2	18-60
Χ	X	Х	-	-	10	10	4±2	15-60
X	X	X	-	-	10 15	17 27	6±3 10±5	35-60 31-55
-	-	-	-	-	30-350	22-390	200±5	12
-	-	-	-	-	30-350	22-390	200±5	15
	-	-	-	-	30-350 30-350	25-380 69-389	200±5 200±5	20 12
-	-	-	-	-	75-350	132-407	200±5 200±20	12
-	-	-	-	-	30-58	35-56	22±11	14
-	-	-	-	-	110-205	255	100±50	22
-	-	-	-	-	15-60 15-80	50-75 40-170	-	40-50 40-70
-	-	-	-	-	10-45 50-75	10-45 25-50	- 70±35	6-20

How do I select the most suitable expansion joint type?

- 1. Select your application area in the table (section ①)
- 2. Should the joint be watertight? (2)
- 3. What type of live loading will the joint be subjected to in service? (2)
- 4. Select width, height and movement capacity according to your needs
 3 (see illustration on page 5, 2nd from top).
- 5. Detailed information about each joint type can be found on our website www.magebagroup.com

Do you want to check your selection with us? Do you have any questions? Please don't hesitate to call us. Our product specialists will be happy to help you.

* corresponding to the load classes in accordance with EN 124 / DIN 1229 (see page 6) as follows:

Cars: BTrucks: EFork-lift trucks: DHard rollers n/a

mageba cannot accept responsibility for expansion joints which were selected without consulting with mageba.



Selection of expansion joint profiles - MIGUTRANS®, MIGUTAN®

			n area ①	Construction type								
	Joint type		Manufacturing and storage areas	Office and residential buildings	Multi-storey car parks and access ramps	Laboratories, hospitals and the food processing industry	Trans-shipment centres and chemical or pharmaceutical plants	New construction	Renovation	Internal areas	External areas	Edge profile material
	FS 50	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 99	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 146	-	Х	-	Χ	-	-	Х	-	Х	-	Aluminium
	FS 40	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 75	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 110	-	X	-	X	-	-	X	-	Х	-	Aluminium
	FS 130	-	Х	-	Χ	-	-	Х	-	Х	-	Aluminium
	FS 160	-	X	-	X	-	-	X	-	X	-	Aluminium
	FS 185	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 105	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 135	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
	FS 155	-	Х	-	Х	-	-	Х	-	Х	-	Aluminium
SIS	FSV 235	-	X	-	X	-	-	X	-	Х	-	Aluminium
A S	FSV 280	-	X	-	X	_	-	X	-	Х	-	Aluminium
뿔	FSV 285	-	X	-	X	_	_	X	-	X	-	Aluminium
3	FSV 335	_	X	_	X	_	-	X	-	Х	-	Aluminium
≥	FS 220	_	X	-	X	_	_	X	-	X	-	Aluminium
	FS 255	-	X	_	X	_	_	X	-	X	-	Aluminium
	FS 110 ES	-	X	_	X	_	_	X	-	X	-	Aluminium/Stainless steel
	FSN 50	-	X	_	X	_	_	-	Х	X	_	Aluminium
	FSN 99	-	X	-	X	-	_	-	X	X	-	Aluminium
	FSN 146	-	X	_	X	_	_	_	X	X	_	Aluminium
	FS 100	-	X	_	-	_	_	Х	-	X	-	Aluminium
	FSS 215	-	X	_	-	_	_	X	_	X	_	Aluminium
	STS 100 ES	_	X	_	Х	_	_	X	-	X	_	Stainless steel/Steel
	STS 160 / 30 - 60	_	X	_	X	_	_	X	_	X	_	Stainless steel/Steel
	STS 160 / 16 - 22	-	X	_	X	_	_	X	-	Х	-	Stainless steel/Steel
	STD 100 ES	-	X	-	X	-	_	X	-	X	-	Stainless steel/Steel
	STD 160 ES	-	X	-	X	_	_	X	_	X	-	Stainless steel/Steel
	FP 80 NI IF	-	X	-	X	_	-	X	-	X	X	Aluminium/Stainless steel
	FP 90 NI IF	-	X	-	X	-	_	X	-	X	X	Aluminium/Stainless steel
	FP 110 NI IF	_	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
	FP 130 NI IF	-	X	-	X	-	_	X	-	X	X	Aluminium/Stainless steel
	FP 155 NI IF	_	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
	FP 80 S NI IF	_	X	_	X	_	_	X	-	X	X	Aluminium/Stainless steel
	FPI 145 NI IF	_	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
	FPG 80 NI IF	-	X	_	X	Х	_	X	-	X	X	Aluminium/Stainless steel
	FPG 90 NI IF	-	X	-	X	X	-	X	-	X	X	Aluminium/Stainless steel
	FPG 110 NI IF	-	X	_	X	X	_	X	-	X	X	Aluminium/Stainless steel
	FP 80 NI kF	_	X	_	X	-	_	X	-	X	X	Aluminium/Stainless steel
	FP 90 NI KF	-	X	-	X	_	-	X	-	X	X	Aluminium/Stainless steel
	FP 110 NI kF	_	X	_	X	_	_	X	-	X	X	Aluminium/Stainless steel
Z		-	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
MIGUTAN	FP 155 NI kF	-	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
9	FP 80 S NI kF	-	X	-	X	-	-	X	-	X	X	Aluminium/Stainless steel
≥	FPI 145 NI kF	-	X	-	X	_	_	X	-	X	X	Aluminium/Stainless steel
	FPG 80 NI kF	-	X	-	X	X	_	X	-	X	X	Aluminium/Stainless steel
	FPG 90 NI kF	-	X	-	X	X	_	X	_	X	X	Aluminium/Stainless steel
	FPG 110 NI kF	-	X	_	X	X	_	X	-	X	X	Aluminium/Stainless steel
	FPL 85 NI	-	X	-	X	-	-	X	-	X	X	Aluminium/Stainless steel
	FPSG 68 ES	-	X	-	X	Х	-	X	-	X	X	Aluminium/Stainless steel
	FP 90 APF	-	X	-	X	-	-	X	-	X	X	Aluminium/Stainless steel
	FP 80 B NI	-	X	_	X	_	-	X	_	X	X	Aluminium/Stainless steel
	FPI 145 B NI	-	X	-	X	_	-	X	_	X	X	Aluminium/Stainless steel
	FPL 85 B NI	-	X	-	X	-	_	X	-	X	X	Aluminium/Stainless steel
												, administry stanness steel
	FP (G) NI XA	-	-	-	-	Х	-	Х	-	Х	Х	Aluminium/Stainless steel



Selection of expansion joint profiles - MIGUTRANS®, MIGUTAN®

	F	Properties (2	2)			Joint geo	metry ③	
	Loading leve	el from traffic*			Gap width	Visible width	Movement	Joint height
Cars [B]	Trucks [E]	Fork-lift trucks [D]	Hardrollers [n/a]	Watertight	[mm]	[mm]	[mm]	[mm]
X	Х	Х	-	-	30	53	10±5	20-50
Х	Х	Х	-	-	70	99	40±20	20-50
Χ	-	-	-	-	114	146	50±25	22-97
Х	X	X	-	-	35	40	20±8	19-60
X	X	X	-	-	50	77	20±10	22-97
X	X	X	-	-	75	110	30±15	30-97
X	X	X	-	-	100	134 162	40±20	42-97
X	X	X	-	-	130 140	185	60±30 60±30	42-97 27-80
X	X	X	_	_	75	105-107	20±10	30-62
X	X	X	-	-	35	135	20±10	25
X	X	X	-	-	120	155-157	40±20	30-62
Χ	Х	Х	-	-	150	357	60±30	45-140
Х	Х	Х	-	-	200	280	85±42.5	45-140
Χ	-	-	-	-	240	284	100±50	27-80
X	-	-	-	-	250	335	100±50	45-140
X	-	-	-	-	60	220	40±20	21
X	X	X	-	-	50	253	60±30	30
X	X	X	-	-	75	110	30±15	30-97
X	-	-	-	-	55	173	10±5	15
X	-	-	-	-	100 153	219	40±20	15 21
X	X	X		-	50	390 102	50±25 20±10	30-50
X	X	X	-	-	60	215	40±20	26
X	X	X	_	_	35	105	20±10	32-62
Х	Х	Х	-	-	60	165	40±20	32-62
Χ	Х	Х	-	-	30	165	40±20	17-22
Χ	Х	X	-	Yes	35	105	20±10	31-61
Χ	X	X	-	Yes	60	165	40±20	32-62
X	X	X	-		45	82	20±10	25-117
X	X	X	-	Yes.	60	95	40±20	25-117
X	X	X	-	ies.	75	11	60±30	25-117
X	X	X	-	Connection	100 120	133 155	90±45	25-117 25-117
X	X	X		to bitumi-	35	82	120±60 20±10	60
X	X	X	_	nous sealing	50	145	60±30	28-60
X	X	X	-	i i	45	82	16±8	25-117
X	X	X	-	system	60	95	20±10	25-117
Χ	Х	Х	-		75	111	40±20	25-117
Χ	X	X	-		45	82	20±10	25-117
X	X	X	-		60	95	40±20	25-117
X	X	X	-		75	111	60±30	25-117
X	X	X	-	Yes.	100	133	90±45	25-117
X	X	- V	-	162.	120	155	120±60 20±10	25-117
X	X	X	-	Connection	35 50-100	82 145	60±30	60 25-60
X	X	X	-	to surface	45	82	16±8	25-117
X	X	X	-	coating	60	95	20±10	25-117
X	X	X	-	Coating	75	111	40±20	25-117
X	X	-	-]	50	85	40±20	27
Χ	Х	Х	-]	25	68	10±5	25-40
-	-	-	-		60	98	40±20	28-120
Χ	X	X	-	-	21-97	82-155	120±8	91-100
X	-	-	-	Yes	118	145	60±30	92
X	X	-	-	Yes	40	85	40±20	75
Χ	X	Х	Х	Yes. Connection to liquid coating	45-120	82-155	120±60	25-117

How do I select the most suitable expansion joint type?

- 1. Select your application area in the table (section (1))
- 2. Should the joint be watertight? (2)
- 3. What type of live loading will the joint be subjected to in service? (2)
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Cars: BTrucks: EFork-lift trucks: DHard rollers n/a

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Selection of expansion joint profiles - MIGUMAX®

				-Application	on area ①			
	Joint type		Manufacturing and storage areas	Office and residential buildings	Multi storey car parks and access ramps	Laboratories, hospitals and the food processing industry	Trans-shipment centres and chemical or pharmaceutical plants	Edge profile material
	SDPP 100/ 65 /55	Χ	-	Х	-	(X)	-	Aluminium
	SDPP 150/ 65 /55	X	-	X	-	(X)	-	Aluminium
	SDPP 200/ 65 /55	X	-	X	-	(X) (X)	-	Aluminium Aluminium
	SDPP 300/ 65 /55 SDPP 400/ 65 /55	X	-	X	-	(X)	<u> </u>	Aluminium
	SDPP 500/ 65 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 150/ 65 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 200/ 65 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 300/ 65 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 400/ 65 /55 SDFP 500/ 65 /55	X	-	X	-	(X) (X)	-	Aluminium Aluminium
	SDFP 150/ 85 /55	X	_	X	-	(X)	-	Aluminium
	SDFP 200/ 85 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 300/ 85 /55	X	-	Х	-	(X)	-	Aluminium
	SDFP 400/ 85 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 500/ 85 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 150/ 105 /55 SDFP 200/ 105 /55	X	-	X	-	(X) (X)	-	Aluminium Aluminium
	SDFP 200/ 105 /55 SDFP 300/ 105 /55	X	-	X	-	(X)	-	Aluminium
	SDFP 400/ 105 /55	X	-	X	-	(X)	_	Aluminium
	SDFP 500/ 105 /55	X	-	X	-	(X)	-	Aluminium
	SDP 150/ 55 /35	-	-	-	X	(X)	-	Aluminium
	SDP 150/ 55 /50	-	-	-	X	(X)	-	Aluminium
	SDP 200/ 55 /35	-	-	-	X	(X)	-	Aluminium
	SDP 200/ 55 /50 SDP 300/ 55 /35	-	-	-	X	(X) (X)	-	Aluminium Aluminium
	SDP 300/ 55 /50	-	_	_	X	(X)	-	Aluminium
	SDP 400/ 55 /35	_	_	-	X	(X)	_	Aluminium
	SDP 400/ 55 /50	-	-	-	X	(X)	-	Aluminium
	SDP 500/ 55 /35	-	-	-	X	(X)	-	Aluminium
Ų	SDP 500/ 55 /50	-	-	-	X	(X)	-	Aluminium
₹ ¥	SDP 150/ 63 /35	-	-	-	X	(X)	-	Aluminium
IGUM	SDP 150/ 63 /50 SDP 200/ 63 /35	-	-	-	X	(X) (X)	-	Aluminium Aluminium
Ĭ	SDP 200/ 63 /50	-	-	-	X	(X)	-	Aluminium
	SDP 300/ 63 /35	X	-	Х	-	(X)	-	Aluminium
	SDP 300/ 63 /50	Χ	-	X	-	(X)	-	Aluminium
	SDP 400/ 63 /35	X	-	X	-	(X)	-	Aluminium
	SDP 400/ 63 /50	X	-	X	-	(X)	-	Aluminium
	SDP 500/ 63 /35 SDP 500/ 63 /50	X	-	X	-	(X) (X)	-	Aluminium Aluminium
	SP 100/ 55 /20	-	_	(X)	-	(X)	_	Aluminium
	SP 150/ 55 /20	-	-	(X)		(X)	-	Aluminium
	SP 200/ 55 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 250/ 55 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 300/ 55 /20 SP 350/ 55 /20	-	-	(X)	-	(X) (X)	-	Aluminium Aluminium
	SP 400/ 55 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 450/ 55 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 100/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 150/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 200/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 250/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 300/ 63 /20 SP 350/ 63 /20	-	-	(X)	-	(X) (X)	-	Aluminium Aluminium
	SP 400/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	SP 450/ 63 /20	-	-	(X)	-	(X)	-	Aluminium
	FSV 280/45	-	Х	-	Х	(X)	Х	Aluminium
	FSV 280/80	-	X	-	X	(X)	Х	Aluminium
	FSV 280/130	-	X	-	X	(X)	X	Aluminium
	FSV 285/27 FSV 285/40	-	-	-	-	(X) (X)	-	Aluminium Aluminium
	FSV 285/40 FSV 285/80	-	-	-	-	(X)	-	Aluminium
	FSV 500/45	-	-	-	-	(X)	-	Aluminium
	FSV 500/80	-	-	-	-	(X)	-	Aluminium
	FSV 500/130	-	-	-	-	(X)	-	Aluminium



Selection of expansion joint profiles -MIGUMAX®

	Pı	roperties ②			Jo	int geome	try ③						
	Loading level from traffic*									Visible width	Thermal movement	Seismic movement	Joint height
Cars [B]	Trucks [E]	Fork-lift trucks [D]	Hardrollers [n/a]	Watertight	[mm]	[mm]	[mm]	[mm]	[mm]				
-	-	-	-	-	100	65	44±22	240±200	55				
-	-	-	-	-	150	65	44±22	290±200	55				
-	-	-	-	-	200	65	44±22	340±200	55				
-	-	-	-	-	300	65	44±22	440±200	55				
-	-	-	-	-	400	65	44±22	540±200	55				
	-	-	-	-	500	65 65	44±22 44±22	640±200 100±50	55				
	-	-	-	-	150 200	65	44±22 44±22	100±50 100±50	<u>55</u> 55				
-	-	-	-	-	300	65	44±22 44±22	100±50	55				
_	_	_	-	_	400	65	44±22	100±50	55				
-	-	_	-	-	500	65	44±22	100±50	55				
-	-	-	-	-	150	83	600±30	125±50-75	55				
-	-	-	-	-	200	83	600±30	125±50-75	55				
-	-	-	-	-	300	83	600±30	125±50-75	55				
-	-	-	-	-	400	83	600±30	125±50-75	55				
-	-	-	-	-	500	83	600±30	125±50-75	55				
-	-	-	-	-	150	110	80±40	175±50-125	55				
-	-	-	-	-	200	110	80±40	175±50-125	55				
-	-	-	-	-	300	110	80±40	175±50-125	55				
-	-	-	-	-	400	110	80±40	175±50-125	55				
-	-	-	-	-	500	110	80±40	175±50-125	55				
X	-	-	-	-	150 150	54 54	32±16 32±16	100±50	35 50				
X	-	-	-	-	200	54	32±16	100±50 100±50	35				
X	_	_	_	-	200	54	32±16	100±50	50				
-	_	-	_	-	300	54	32±16	100±50	35				
-	-	-	-	-	300	54	32±16	100±50	50				
-	-	-	-	-	400	54	32±16	100±50	35				
-	-	-	-	-	400	54	32±16	100±50	50				
-	-	-	-	-	500	54	32±16	100±50	35				
-	-	-	-	-	500	54	32±16	100±50	50				
Х	-	-	-	-	150	63	44±22	100±50	35				
Χ	-	-	-	-	150	63	44±22	100±50	50				
X	-	-	-	-	200	63	44±22	100±50	35				
Х	-	-	-	-	200	63	44±22	100±50	50				
-	-	-	-	-	300	63	44±22	100±50	35				
-	-	-	-	-	300 400	63	44±22	100±50	50 35				
-	-	-	-	-	400	63	44±22 44±22	100±50 100±50	50				
	-	-	-	-	500	63	44±22 44±22	100±50	35				
-	_	-	_	_	500	63	44±22	100±50	50				
-	-	-	-	-	100	247	32±16	65±16-50	20				
-	-	-	-	-	150	297	32±16	65±16-50	20				
-	-	-	-	-	200	347	32±16	65±16-50	20				
-	-	-	-	-	250	397	32±16	65±16-50	20				
-	-	-	-	-	300	447	32±16	65±16-50	20				
-	-	-	-	-	350	497	32±16	65±16-50	20				
-	-	-	-	-	400	547	32±16	65±16-50	20				
-	-	-	-	-	450	597	32±16	65±16-50	20				
-	-	-	-	-	100	264	44±22	72±22-50	20				
-	-	-	-	-	150	314	44±22	72±22-50	20				
-	-	-	-	-	200 250	364 414	44±22 44±22	72±22-50 72±22-50	20				
-	-	-	-	-	300	414	44±22 44±22	72±22-50 72±22-50	20				
-	-	-	-	-	350	514	44±22	72±22-50	20				
-	-	-	-	-	400	564	44±22	72±22-50	20				
-	-	-	-	-	450	614	44±22	72±22-50	20				
Х	X	Х	Х	-	200	280	85±42.5	85±42.5	45				
Χ	Х	Х	Χ	-	200	280	85±42.5	85±42.5	80				
Χ	X	X	Х	-	200	280	85±42.5	85±42.5	130				
Χ	-	-	-	-	240	284	100±50	100±50	27				
X	-	-	-	-	240	284	100±50	100±50	40				
Χ	-	-	-	-	240	284	100±50	100±50	80				
-	-	-	-	-	400	498	100±50	200±100	45				
-	-	-	-	-	400	498	100±50	200±100	80				
-	-	-	-	-	400	498	100±50	200±100	130				

How do I select the most suitable expansion joint type?

- 1. Select your application area in the table (section 1)
- 2. Should the joint be watertight? (2)
- 3. What type of live loading will the joint be subjected to in service? (2)
- 4. Select width, height and movement capacity according to your needs (3) (see illustration on page 5, 2nd from top).
- Detailed information about each joint type can be found on our website www.magebagroup.com

Do you want to check your selection with us? Do you have any questions? Please don't hesitate to call us. Our product specialists will be happy to help you.

* corresponding to the load classes in accordance with EN 124 / DIN 1229 (see page 6) as follows:

В

Cars: Ε Trucks: Fork-lift trucks: D Hard rollers n/a

mageba cannot accept responsibility for expansion joints which were selected without consulting with



References



Nestlé HQ, Vevey, Switzerland



Stade de Suisse football stadium, Switzerland



Uster railway station, Switzerland



Public swimming pool, Lancy, Switzerland



Herrliberg school house, Switzerland



Lenggenbach, Switzerland



Cantonal hospital, Winterthur, Switzerland



Migros offices, Zurich, Switzerland



Goethe gallery, Jena, Germany



Goethe gallery, Jena, Germany



Goethe gallery, Jena, Germany



Charleroi parking centre, Belgium



Hamburg airport, Germany



Wittenberg SIG Combiblock, Germany



University hospital, Jena, Germany



Leipzig trade fair centre, Germany



BayArena, Leverkusen, Germany



Nuremburg airport, Germany



Parking deck, Dresden, Germany



Parking centre, Lubeck, Germany



Zurich Airport parking centre, Switzerland



Ports Francs, Genève, Switzerland











Our services for you

Inspections

You have an expansion joint that shows signs of deterioration, has damaged connecting surfacing or allows water to leak through it? mageba offers professional condition inspections, with rehabilitation proposals if desired. These typically comprise visual inspections only, but can also include watertightness tests, core analyses and the creation of exploratory openings as required. A comprehensive written report is then provided.

Regular maintenance inspections

Expansion joints, like other structural elements, suffer from wear and tear which must be repaired from time to time. The costs of repairs increase exponentially with the duration of the interval. It is thus sensible to recognise and address deterioration before cracking of surfacing and corrosion develop. mageba offers *regular inspections at intervals of your choosing*, with an *inspection report* provided after each visit.

Installation training and inspection of installation

mageba and its partners have been manufacturing expansion joints for several decades, and are pioneers in this field. The serviceability and watertightness of an expansion joint depend strongly on its installation.

mageba thus works together with professional installation partners that have appropriate experience in the installation of expansion joints. To ensure *perfect installation*, mageba offers *training for installation contractors* and for those who will *inspect the installation work*.

Training for architects and engineers

Did you always want to know more about expansion joints and their use? mageba offers you and your company *training on the subject of expansion joints*. Depending on needs and interest, the training can take place *in your offices*. Ask us about available dates.

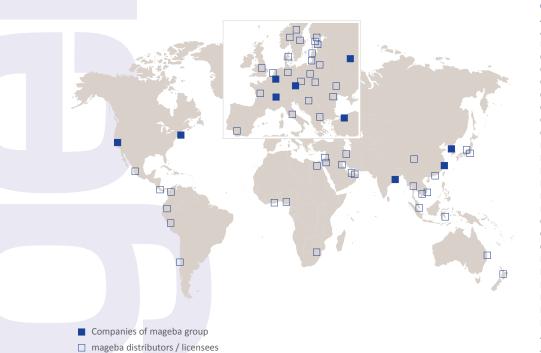






- 1 The condition of an expansion joint is recorded in an inspection report
- 2 The report contains concrete proposals for remedial measures
 - mageba employees during training

engineering connections®



Companies & agents worldwide

Australia Kuwait Austria Latvia Belarus Lithuania Cambodia Mexico China Netherlands Chile New Zealand Colombia Nigeria Costa Rica Norway Croatia Oman Czech Republic Peru Denmark Poland Ecuador Romania Egypt Russia Estonia Serbia Finland Singapore France South Africa Germany South Korea Ghana Spain Great Britain Sweden Hong Kong Switzerland India Thailand Indonesia Turkey Iran UAE Israel Ukraine Italy USA Japan Vietnam Jordan

mageba headquarters



SWITZERLAND mageba sa

Solistrasse 68 8180 Bülach - Switzerland Tel. +41 44 872 40 50 Fax +41 44 872 40 59 info@mageba-group.com

mageba companies / subsidiaries

SWITZERLAND

mageba sa

Rte. de Montheron 8D 1053 Cugy VD - Switzerland Tel. +41 21 731 07 10 Fax +41 21 731 07 11 cugy@mageba.ch

RUSSIA

mageba Moscow

Regus Business Centre Citydel Zemlyanoy val, 9, 4th floor 105 064 Moscow - Russia Tel. +7 495 967 93 20 Fax +7 495 967 97 00 info@mageba.ch

SOUTH KOREA

mageba (Korea) Co. Ltd.

Hanshin Intervalley24 Bldg. East Hall, #1708-9 707-34, Yeoksam 2-Dong Gangnam-Gu, Seoul 135-918 Tel. +82 2 2183 2020 Fax +82 2 2183 2022 info@mageba.co.kr

GERMANY

mageba gmbh

Hans-Böckler-Str. 12 37170 Uslar - Germany Tel. +49 5571 9256 0 Fax +49 5571 9256 56 uslar@mageba.ch

RUSSIA

mageba St. Petersburg

Regus Austrian Business Centre Nevsky Prospekt 55, lit. A, 3rd floor 191025, 5t. Petersburg - Russia Tel. +7 812 313 92 81 Fax +7 812 313 91 00 info@mageba.ch

TURKEY

mageba A.Ş.

Marmara Geri Dönüşümcüler San.Sit. Şekerpınar Mah. Ayçiçeği Sk. No:17 Çayırova / Kocaeli - Turkey Tel. +90 262 658 23 80 Fax+90 262 658 23 81 info@mageba.com.tr

GERMANY

mageba gmbh

Steinbeisstrasse 40 73730 Esslingen - Germany Tel. +49 711 758844 0 Fax +49 711 758844 56 stuttgart@mageba.ch

INDIA

mageba bridge products Pvt. Ltd.

45, Jhowtala Road, 3rd Floor 700 019 Kolkata - India Tel. +91 33 229 00 250 Fax +91 33 229 00 254 info@mageba.in

USA

mageba USA LLC

575 Lexington Avenue, 4th Floor New York, NY 10022 - USA Tel. +1 212 644 3335 Fax +1 212 644 3339 info@magebausa.com

AUSTRIA

mageba gmbh

Seglerweg 1 6972 Fussach - Austria Tel. +43 5578 75593 Fax +43 5578 73348 info@mageba.at

CHINA

mageba (Shanghai) Ltd.

No. 388 Bei Huan Road Shanghai (201402) - China Tel. +86 21 5740 7637 Fax +86 21 5740 2783 819 info@mageba.cn

USA

mageba USA LLC

188 Hillsdale Avenue San Jose, CA 95136 - USA Tel. +1 408 281 9700 Fax +1 408 281 9701 info@magebausa.com

