



BUILDING
COMMON GROUND



Egcodist

Wall and floor bearings





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COMMON GROUND

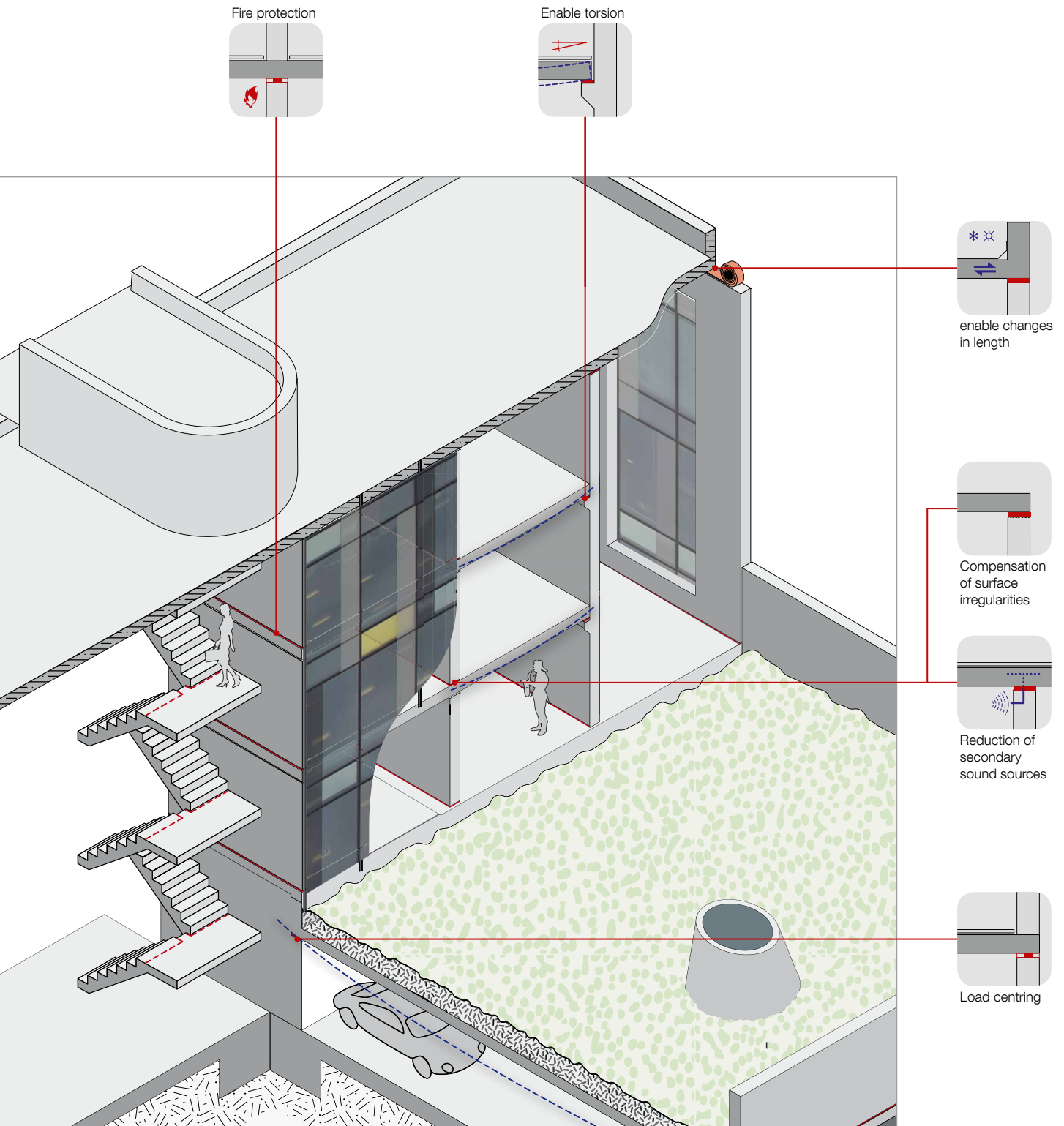


Egcodist

Wall and floor bearings

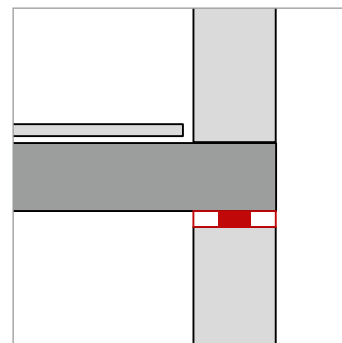
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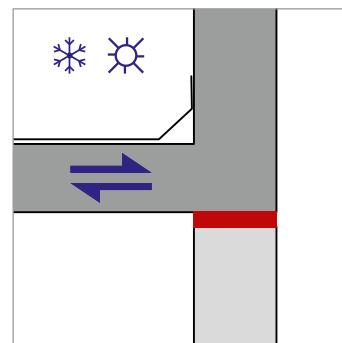
Load centring

The increasing use of plain stones in masonry construction on the one hand and the ever-expanding floor span on the other hand require more work in detail and execution of the connection at the top and bottom of the masonry structure increasing costs. With the centering of loads on the head of the masonry, this detailed point is catered for easily and efficiently. The **Egcodist C** line bearing with its various designs is especially suitable for this purpose.



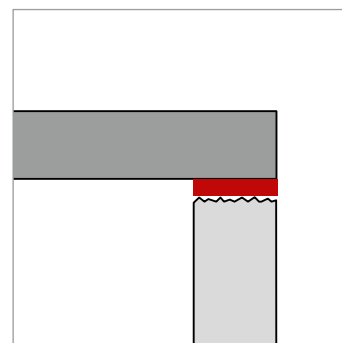
Enable changes in length

To enable changes in length, the use of **Egcodist CG** slide bearings is recommended. The main application of the bearings is to accommodate movements induced by expansion/contraction between connected structural members.



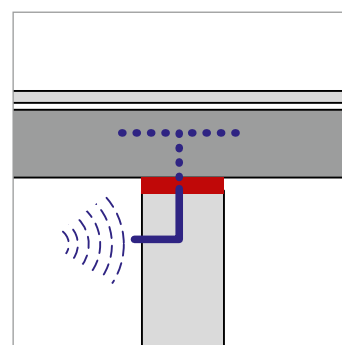
Compensation of surface irregularities

Construction related surface irregularities or contamination of contact joints can cause localised pressure points. The direct result are cracks and spallings. Damage can be prevented effectively by using a deformable bearing like **Egcodist S** or **Egcodist Z**.



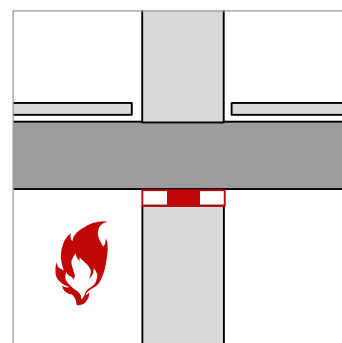
Reduction of secondary sound sources

Decoupling of solid wall and floor members helps to reduce the effects of secondary sound sources. This improves considerably the levels of comfort for the users of the building.



Fire protection

Where specific fire-protection requirements must be met, Egcodist line bearings can be provided with a fire-protection collar with an F90 fire-resistance rating. An expert statement for **Egcodist C R90** from MPA Braunschweig is available upon request.



Improve the quality of your buildings!

Take advantage of wall and ceiling bearings and avoid possible structural damage already during planning or construction phases.

Defined load centring helps to prevent spalling caused by rotation of the floor support. This means a permanently intact floor to wall joint giving the builder, owner and building user enhanced security. An application where the load is centred is good for masonry walls making it possible to use reduced wall thicknesses to achieve larger open floor spaces.

Direct exposure of rigid connections between floors and masonry walls to the elements will often result in damage in the joint area between wall and floor. It is a requirement of several national standards that an intermediate layer must be fitted in the joint that absorbs such deformations. The Egcodist range of wall and floor bearings is ideally suited to meet these requirements. To compensate small changes in length the bearing Egcodist C is sufficient. For the compensation of larger changes in length the use of Egcodist CG is recommended.

Even very small irregularities can lead to extensive localised pressure points. As a result of horizontal deformation being impeded, restoring forces are built up. The use of an elastic intermediate layer helps to reduce horizontal reactive forces and to distribute localised pressure.

Use the product overview for easy and quick selection of the optimum suitable bearing for your application.

Select the suitable wall and floor bearing for your requirements.

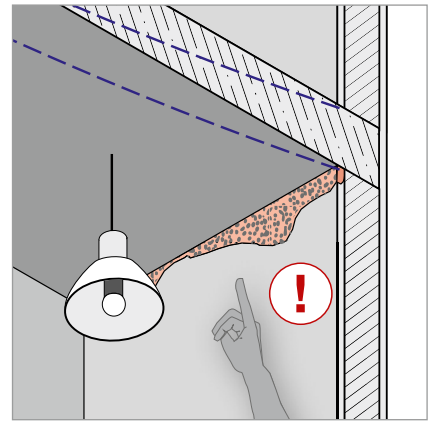
Combine types, bearing thicknesses, bearing widths and admissible loads.

Example: **Egcodist CG 05/115/075**

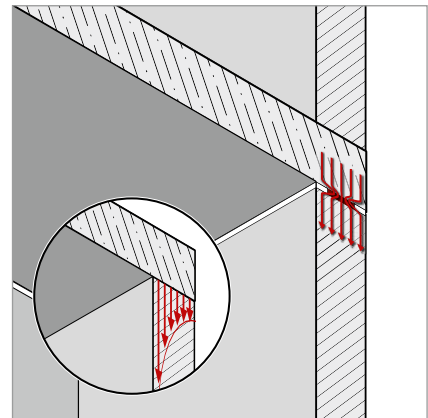
Type	Bearing thickness [mm]	Bearing width [mm]	Load [kN/m]	Fire resistance class
C	10	115	75	R90
	5	175	100	
CG	10	240	150	
	5			
C R90	10	175	100	
		240	150	
S	10	125		
	5	180		
	3	250		
Z	10			

Egcodist code for the elastomer bearing

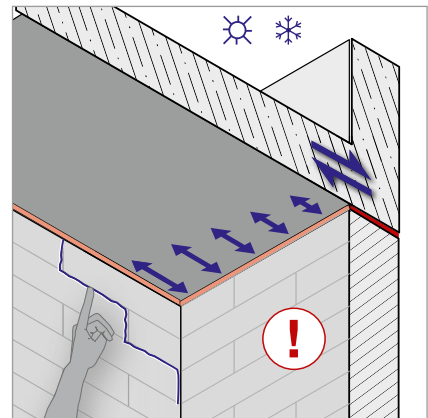
- C Centring bearing
- CG Centring bearing with permanent sliding function
- C R90 Centring bearing with fire protection
- S Bearing
- Z Wavelike elastomeric bearing



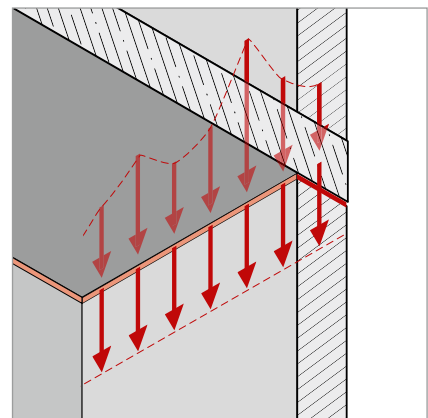
Spalling



Load centring

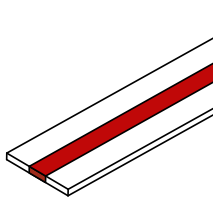
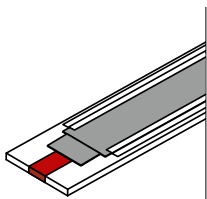
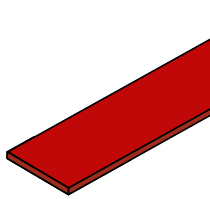
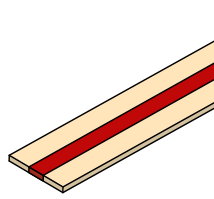
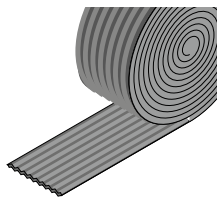







Changes in length






Compensating for surface irregularities




Product overview

					
	Egcodist C	Egcodist CG	Egcodist S	Egcodist C R90	Egcodist Z
	+	+	○ ¹⁾	+	○ ¹⁾
	○ (± 2 mm/± 4.8 mm)	+	-	○	-
	+	+	+	+	+
	+	+	+	○	○
	(for 10 mm bearing thickness)	(for 10 mm bearing thickness)	(for 10 mm bearing thickness)		
	○	○	○	+	○

Precast floors


	+	+	+	+	+
	+	+	+	+	+
	+	+	+	+	+

In-situ cast floors (incl. floor slabs)

	+	+	○ ¹⁾	+	○ ¹⁾
	+	+	○ ¹⁾	+	○ ¹⁾
	+	+	○ ¹⁾	+	○ ¹⁾

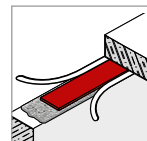
⊕ Suitable ○ Conditionally suitable ⊖ Not suitable

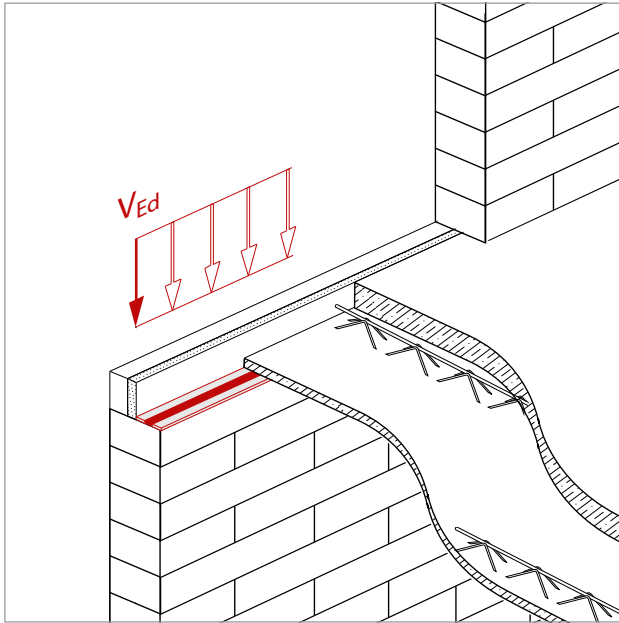
 In-situ concrete

 Precast (incl. floor slabs)

 Masonry

¹⁾ Installed using additional edge insulation strips





Egcodist C

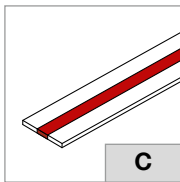
Centring bearing with limited horizontal deformability

Egcodist C helps to prevent spalling at support points with large floor rotation angles and increases the bearing capacity of masonry walling through centred load application. The centring bearing is ideal for large floor spans and high walls.

- Test certificate by the MPA Hannover (fundamental test of bearings according to DIN 4141, part 3)
- Bearing class 2 in regard to DIN 4141, part 3
- Reduction of secondary sound sources

Delivery form

- Bearing thickness: 5 and 10 mm
- Standard width: 115, 175 and 240 mm
- Standard length 1.000 mm
- Customised designs can be produced upon request



Egcodist C



Load centring



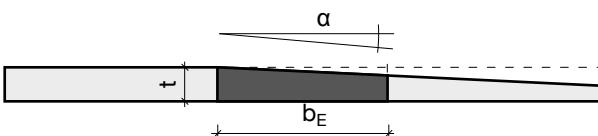
Compensation for irregularities

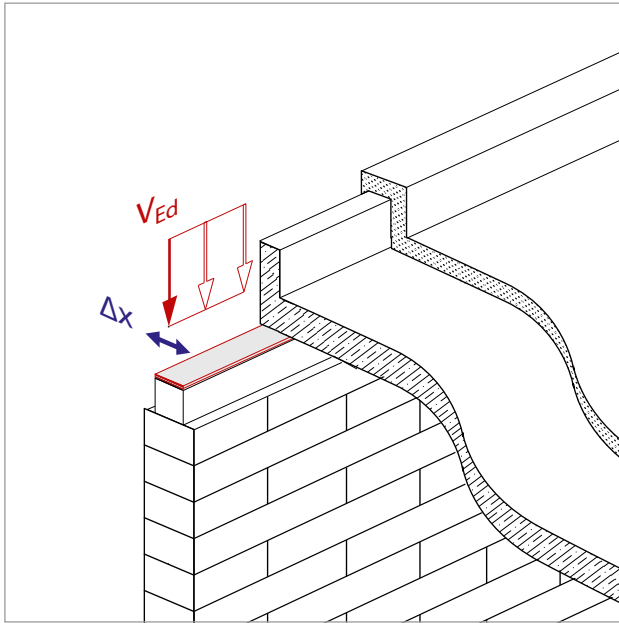


Reduction of secondary sound sources

Bearing thickness	Bearing width	Core strip width	Design resistance line load	Characteristic resistance line load	Permissible horizontal movement	Maximum angle of rotation
t [mm]	b_{Bearing} [mm]	b_E [mm]	$V_{R,d}$ [kN/m]	$V_{R,k}$ [kN/m]	Δx [mm]	α [°]
10	115	40	140	200	± 4.8	5
	175					
	240					
	115	50	210	250	± 4.8	4
	175					
	240					
5	115	25	105	125	± 2.0	4
	175					
	240					
	115	50	210	250	± 2.0	2
	175					
	240					

Angle of rotation





Egcodist CG

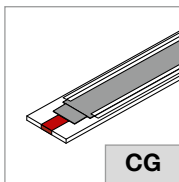
Centring bearing with permanent sliding function

Egcodist CG helps to effectively prevent shear cracks developing due to expansion/contraction of the floor, e.g. as caused by exposure to direct sunlight. Egcodist CG also helps to prevent potential spalling at support points due to large floor rotation angles, whilst the centred load application increases the bearing capacity of masonry walling. Egcodist CG is ideal for uninsulated floors with large spans and high walls.

- Test certificate by the MPA Hannover (fundamental test of bearings according to DIN 4141, part 3)
- Bearing class 2 in regard to DIN 4141, part 3
- Reduction of secondary sound sources
- Friction coefficient $\mu \sim 0.1$

Delivery form

- Bearing thickness: 5 and 10 mm
- Standard width: 115, 175 and 240 mm
- Standard length 1.000 mm
- Customised designs can be produced upon request



Egcodist CG



Load centring



Compensation for changes in length up to maximum 16 mm



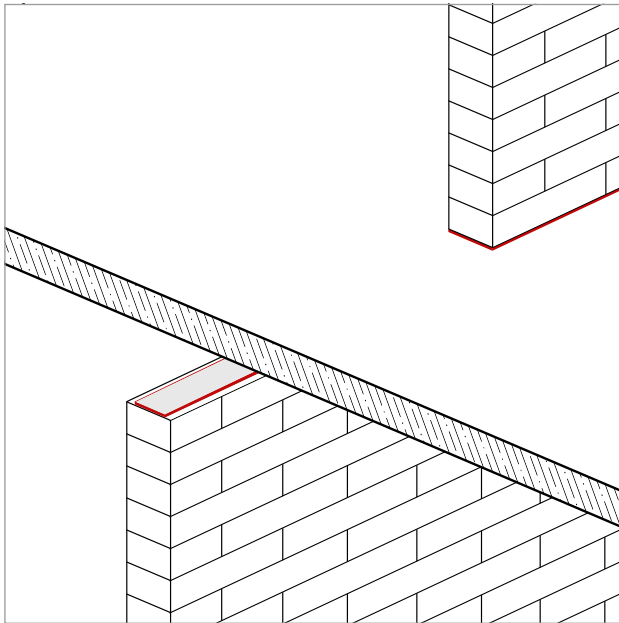
Compensation for irregularities



Reduction of secondary sound sources

Bearing thickness	Bearing width	Core strip	Design resistance line load	Characteristic resistance line load	Permissible horizontal movement	Maximum angle of rotation
t [mm]	b_{Bearing} [mm]	b_E [mm]	$V_{R,d}$ [kN/m]	$V_{R,k}$ [kN/m]	$\Delta x^{1)}$ [mm]	α [°]
10	115	40	140	200	± 13.0	5
	175					
	240					
	115	50	210	250	± 16.0	4
	175					
	240					
5	115	25	105	125	± 8.0	4
	175					
	240					
	115	50	210	250	± 16.0	2
	175					
	240					

¹⁾ ~ max. 1/3 of the core strip width



Egcodist S

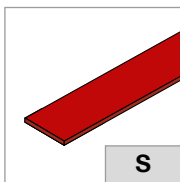
Bearing

Egcodist S is used as an intermediate layer when connecting solid members. It helps to compensate for irregularities and to decouple structural members.

- Test certificate by the MPA Hannover (fundamental test of bearings according to DIN 4141, part 3)
- Planar load transfer
- Reduction of secondary sound sources

Delivery form

- Thickness: 3 and 5 mm (reels l = 9.75 m) and 10 mm (plates l = 1.00 m)
- Standard width: 125 to 250 mm
- Customised designs can be produced upon request



Egcodist S (strips)



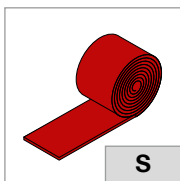
Compensation for irregularities



Reduction of secondary sound sources

Bearing thickness	Bearing width	Design resistance compressive stress	Characteristic resistance compressive stress
t [mm]	b _{Bearing} [mm]	$\sigma_{R,d}$ [N/mm ²]	$\sigma_{R,k}$ [N/mm ²]
10	125	≤ 4.2	≤ 5.0
	180		
	250		

Standard length 1.00 m



Egcodist S (rolled good)



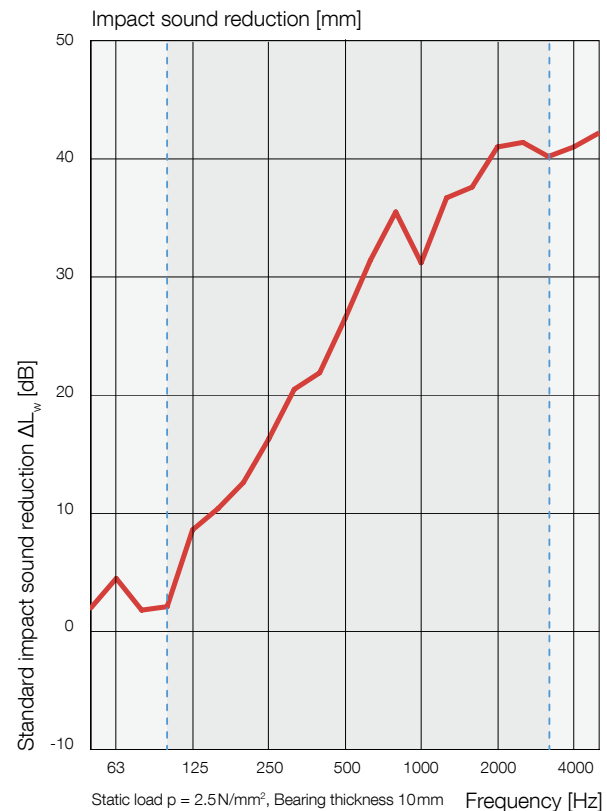
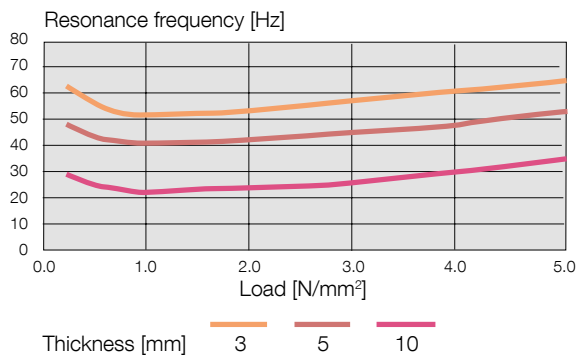
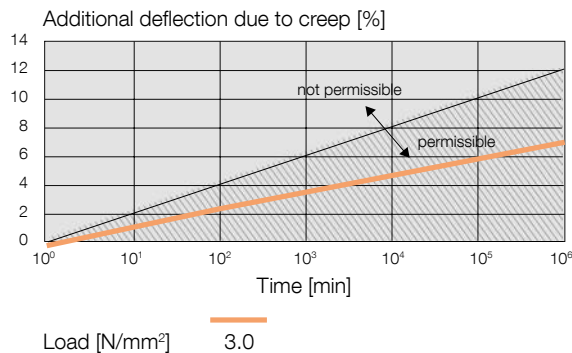
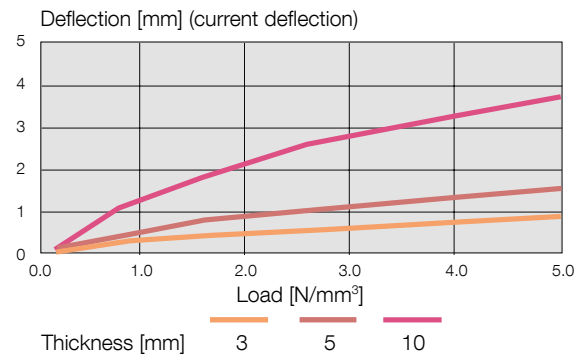
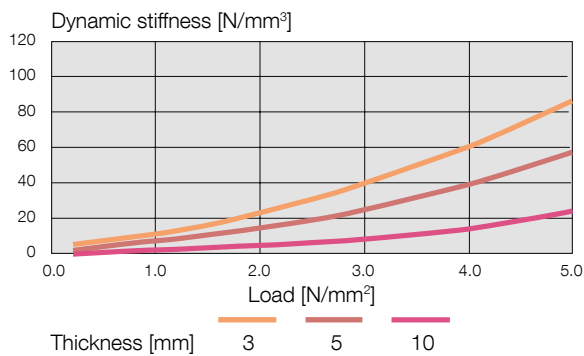
Compensation for irregularities

Bearing thickness	Bearing width	Design resistance compressive stress	Characteristic resistance compressive stress
t [mm]	b _{Bearing} [mm]	$\sigma_{R,d}$ [N/mm ²]	$\sigma_{R,k}$ [N/mm ²]
5	125	≤ 4.2	≤ 5.0
	180		
	250		
3	125		
	180		
	250		

Roller length 10.00 m

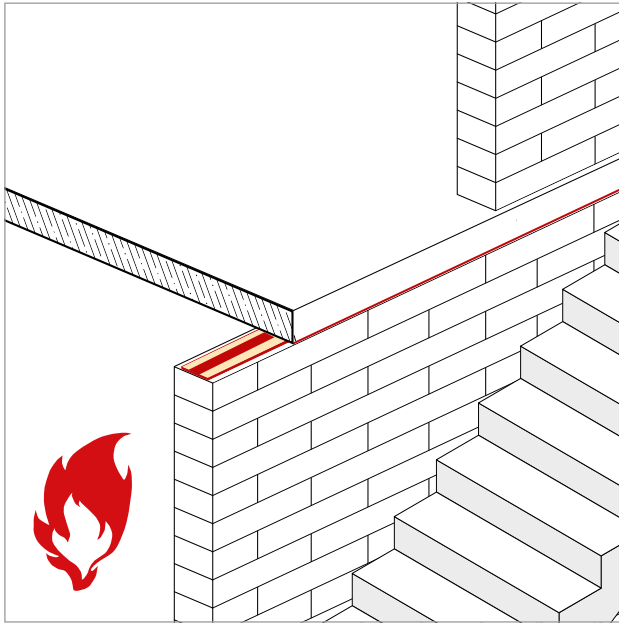
Egcodist S (and core strip of the bearings Egcodist C and CG) – Technical data bearing

Feature	Test procedure	Value
Max. load	–	5.0 N/mm ²
Colour	–	black
Density	ASTM F104	900 – 1020 kg/m ³
Temperature range	constant	-10 / +100 °C
Shore hardness	ASTM D2240	65 – 75 A
Elongation at break	ASTM F152	> 66 %
Tensile strength	ASTM F152	> 1.8 N/mm ²
Compression at break 50 % / 23 °C / 70 h	DIN 53572	< 8 %
Max. possible compression at 2.8 N/mm ²	ASTM F36	10 – 20 %
Compressibility recovery at 2.8 N/mm ²	ASTM F36	> 80 %
Modules of elasticity 1 – 100 Hz	ASTM D797	9.4 – 13.3 N/mm ²
tg δ 1 – 100 Hz	ASTM D797	0.17 – 0.36



Static load $p = 2.5 \text{ N/mm}^2$, Bearing thickness 10 mm
 Test report 1049-001-06,
 Test Institut SG-Bauakustik,
 Mülheim a. d. Ruhr

Rating to ISO 717-2
 $\Delta L_w = 31 \text{ dB}$

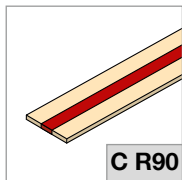


Egcodist C R90

Centring bearing with fire protection and limited horizontal deformability

The Egcodist C R90 enables torsion and small changes in length by deformation of the core strip.

- EPDM-core strip
- Bearing class 2 according to DIN 4141, part 3
- Fire protection class F90 (test certificate MPA Braunschweig Nr. 6941/2011)



Egcodist C R90



Load centring



Compensation for irregularities



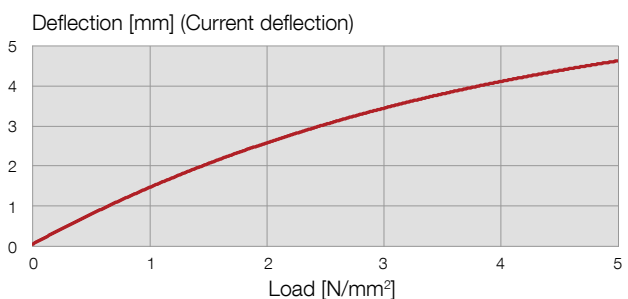
Fire protection

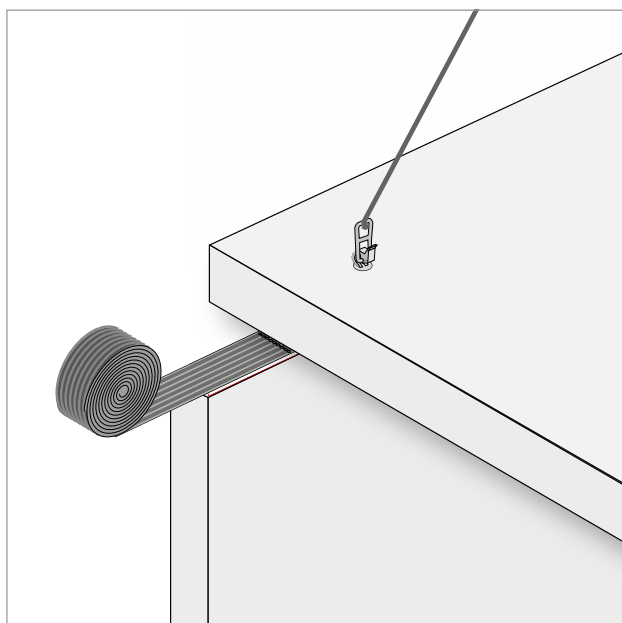
Bearing thickness	Bearing width	Core strip	Design resistance line load	Characteristic resistance line load	Permissible horizontal movement	Maximum angle of rotation
t [mm]	b ^{Bearing} [mm]	b _E [mm]	V _{R,d} [kN/m]	V _{R,k} [kN/m]	Δx [mm]	α [°]
10	175	50	140	200	± 4.8	4
	240					
	175	60	210	250		
	240					

Standard length 1.20m. Special widths on request.

Egcodist C R90 – Technical data elastomeric bearing (EPDM – core strip)

Feature	Test procedure	Value
Max. load	–	5.0 N/mm ²
Colour	–	black
Density	DIN EN ISO 1183 / ISO 2781	1060 kg/m ³
Temperature range	constant	-35 until +100 °C (short-term +100 °C)
Shore hardness	DIN 53 505 / ISO 7619	55 – 65 A
Elongation at break	DIN 53 504 / ISO 37	> 400 %
Tensile strength	DIN 53 504 / ISO 37	> 18 N/mm ²
Ozone resistance	ISO 1431-1 (50ppm, 40 °, 72h, 20 % elongation)	ozone resistant



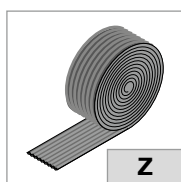


Egcodist Z

Wavelike elastomeric bearing (EPDM)

Egcodist Z compensates surface irregularities between connected pre-cast elements especially between pre-cast elements for facades, joints between wall and ceiling or wall-wall connections.

- characteristic resistance $\sigma_{R,k}=10.5\text{ N/mm}^2$ according to test certificate Nr. P14-029L.1
- Rolled good, role length 10 m
- Bearing width 200 mm (separable in 50 mm stripes)
- Bearing thickness 10 mm
- Deflection max. 50 % at 10.5 N/mm
- Bearing class 2 according to DIN 4141, part 3
- Acts permanently elastic in case of canting
- Creates less transverse tensile forces than plain bearings at the same stress level



Egcodist Z



Compensation for irregularities

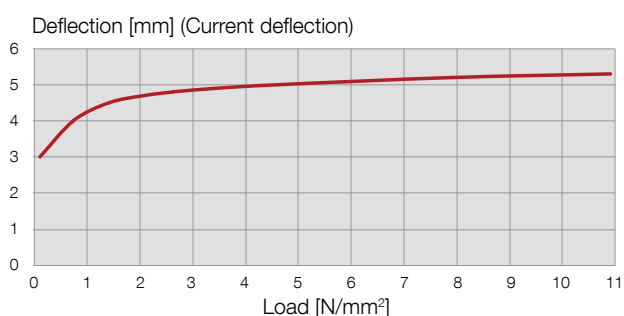
Impact sound reduction up to 29 dB
according to test report Nr. 1696-001-17
and DIN EN ISO 10140-1 and 10140-3

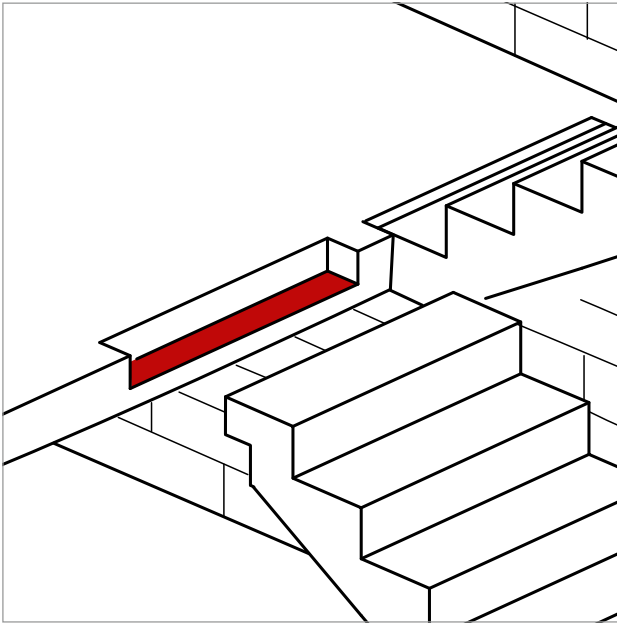
Bearing thickness	Bearing width	Design resistance compressive stress	Characteristic resistance compressive stress
t [mm]	b_{Bearing} [mm]	$\sigma_{R,d}$ [N/mm ²]	$\sigma_{R,k}$ [N/mm ²]
10	200	7.8	10.5

Roller length 10.00 m

Egcodist Z – Technical data

Feature	Test procedure	Value
Max. load	–	10.5 N/mm ²
Colour	–	black
Shore hardness	ISO 48	> 65
Tensile strength	ISO 37	> 6.0 %
Elongation at break	ISO 37	> 400 %
Ozone resistance	ISO 1431-1	ozone resistant

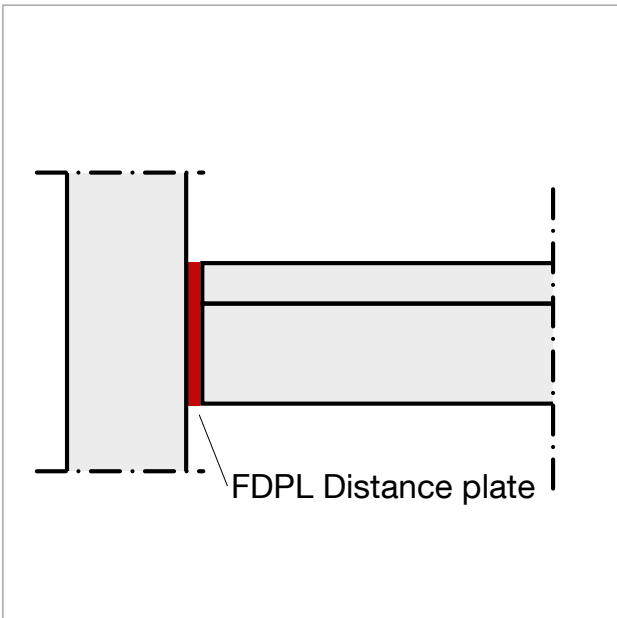




Egcoscal T Stair bedding for staircases made of pre-cast components

- Strip bearing made of an elastomer that is specially adapted to the application
- High impact sound reduction ΔL_w^* up to 32 dB
- Dimensions: Thickness 10 mm, width 100 mm, as rolled goods or ready made up

Design resistance compressive stress	Length	Width	Thickness
[N/mm ²]	[mm]	[mm]	[mm]
≤ 0.6	10000	100	10
	1200		
	1000		
	on request		



FDPL Distance plate

Optimum decoupling of structure-borne sound is only achieved when no sound bridges are created. With the FDPL distance plate you secure the joints and prevent soiling, e.g. with stair landings and stair flights.

- Density: approx. 30 kg/m³
- Length: 1000 mm
- Thickness: 15 mm
- Widths: 250 mm, 355 mm, 420 mm
- Fire protection: Class E according to DIN EN 13501-1/
building material class B2 according to DIN 4101-01
- Available individually or as a set
- Simple to cut with a cutter
- Adhesive tape for mounting is already applied

Designation	Dimensions spacer plate [mm]
Double sided adhesive tape for fixing FDPL distance plate	1000 x 250 x 15
	1000 x 355 x 15
	1000 x 420 x 15

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By using our new responsive webdesign, you will be led through the new MAX FRANK website and will conveniently be receiving all requested contents, despite which Smartphone you choose.

Our website offers both information regarding our products and a wide range of exceptional services. Therefore you will find interesting features that support you through every building phase.



MAX FRANK BUILDINGS

This welcomed tool has been integrated into the website and is now even better connected to the detailed product information. The virtual landscape has been expanded for several new building types and now offers a perfect product range to include hydropower plants, industrial warehouses and railway stations.



PRODUCT FINDER

Filter easily by the requested scope of applications and product properties and you will be led directly through to the appropriate products allowing any challenges you have, to be solved.



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