

Product range



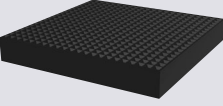
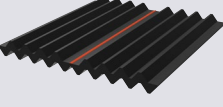
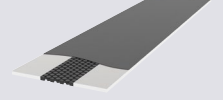
# STRUCTURAL BEARINGS

## Guarantee of high quality for the construction industry

Due to the combined effects of permanent static loads (dead load), live dynamic loads (e.g. wind) and concentrated restraints (e.g. due to temperature changes, creep, tolerances or settlements) relative movement within structures must always be considered. Without appropriate elastomeric bearings these influences will lead to damages. Beside cracks and spalling in concrete members, extensive deterioration can occur within adjacent structural members. The repair of those damages has significant time & cost implications.

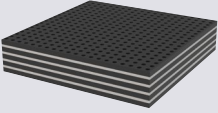
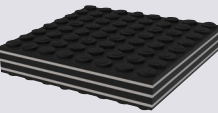
Structural bearings concentrate high loads towards to the centre and can accommodate movements and rotations (angle of distortion) at the same time. Due to their low coefficient of friction, our sliding bearings are able to compensate large deformations and movements.

Our bearings are designed to resist significant loads and consequently facilitate economical structural designs. When calculated properly and installed correctly, Calenberg structural bearings neither need any maintenance nor need to be removed. The safety factors considered in the product secure the designer even against unexpected loads. The life span of our elastomeric bearings is at least as long as the one of the adjacent structural members. Calenberg bearings secure the durability & economy of ownership of buildings as damages will be avoided and therefore costs for maintenance and reconstruction are eliminated. Our bearings are designed to transfer loads, rotations and movements permanently and without any damages.

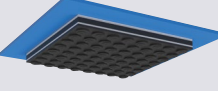
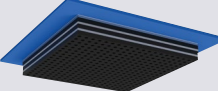
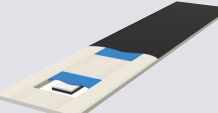
UNREINFORCED BEARINGS					
	Bearing name	Bearing type	Thickness [mm]	Compressive stress	Approval
	Compact Bearing S 65	Unreinforced deformation bearing	5*	$\sigma_{R,d} = 14 \text{ N/mm}^2$	Approval No. Z-16.32-474, issued by DIBt Berlin
			8*		
			10		
			15		
			20		
			25		
			30		
	Compact Bearing S 70	Unreinforced deformation bearing	5*	$\sigma_{R,d} = 21 \text{ N/mm}^2$	Approval No. Z-16.32-477, issued by DIBt Berlin
			8*		
			10		
			15		
			20		
	Compact Bearing CR 2000	Unreinforced profiled deformation bearing	11	max. $\sigma_K = 20 \text{ N/mm}^2$	Approval applied
			16		
			21		
	bi-Trapez Bearing®	Unreinforced deformation for impact sound insulation	5*	Shape depending (max. $\sigma_{R,d} = 17,4 \text{ N/mm}^2$ )	Approval No. Z-16.32-455, issued by DIBt Berlin
			10		
			15		
			20		
	Cigular® Slab Bearing	Deformation bearing with low shear resistance	10	$\sigma_{R,d} = 1,5 \text{ N/mm}^2$	Approval No. Z-16.32-479, issued by DIBt Berlin

\* without official approval



## REINFORCED BEARINGS

	Bearing name	Bearing type	Thickness [mm]	Compressive stress	Approval
	Perforated™ Bearing, Type Z	Steel-reinforced perforated bearing	15	max. $\sigma_K = 25 \text{ N/mm}^2$	Approval applied
			24		
			33		
			42		
			51		
	Sandwich Bearing Q	Steel-reinforced bearing	10	max. $\sigma_{R,d} = 28 \text{ N/mm}^2$	Approval No. Z-16.33-480, issued by DIBt Berlin
			20		
			30		
			40		

## SLIDING BEARINGS

	Bearing name	Bearing type	Thickness [mm]	Compressive stress	Approval
	Ciparall® Sliding Bearing	Reinforced point sliding bearing	11	According to DIBt official test certificate valid till approval issued	Approval applied
			14		
			20		
			30		
			40		
	Perforated™ Sliding Bearing, Type Z	Reinforced point sliding bearing	15	According to DIBt official test certificate valid till approval issued	Approval applied
			25		
			34		
			42		
			51		
	Civalit® Sliding Bearing	Point / strip sliding bearing	11	According to DIBt official test certificate valid till approval issued	Approval applied

## SPECIAL PRODUCTS

	Bearing name	Bearing type	Thickness [mm]	Compressive stress	Approval
	Compact Core Bearing	Unreinforced heavy-duty bearing for thermal separation of steel structures	5	max. $\sigma_K = 30 \text{ N/mm}^2$	Approval applied
			10		
			15		
			20		
	Cipolon® Edge Protection	Edge protection, sealing	7	Unnecessary	Unnecessary



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