



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 | Deforamtion 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. σ_{K} = 30 N/mm ² | Approval applied | |
| | | | 10 | | | |
| | | | 15 | | | |
| | | | 20 | | | |
| | Cipolon® Edge Protection | Edge protection, sealing | 7 | Unnecessary | Unnecessary | |



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