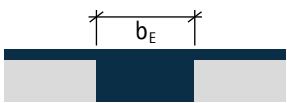
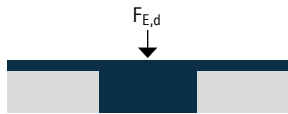
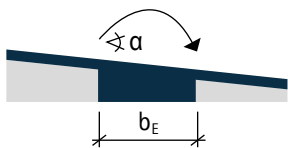



## Cigular® Slab Bearing EcoLine

Structural bearing for static structural members

### Design values

The Cigular® slab bearing EcoLine is available in a bearing thickness of 10 mm. Approval no. Z-16.32-479, issued by DIBt Berlin.

DIMENSIONING CIGULAR® SLAB BEARING ECOLINE			
Elastomer width	All. vertical force	All. rotation	All. horizontal deformation on all sides
			
$b_E$ [mm]	$F_{R,d}$ [kN/m]	$\alpha$ [‰]	all. $u = \pm 10$ mm
35	52	40	Horizontal force (restoring force from horizontal bearing deformation): s. Diagram 'Ratio of horizontal force to vertical force' as well as design example below
60	89	40	
83	123	40	
106	157	37	

#### LEGENDE FORMELZEICHEN

$b_E$  Elastomeric bearing width    $F_{R,d}$  All. vertical force    $u$  Shear deformation of the bearing    $H$  Horizontal force    $\alpha$  All. bearing rotation

### Design example

Given:  $F_{E,d} = 58$  kN/m    $\alpha = 17$  ‰    $u = \pm 5$  mm

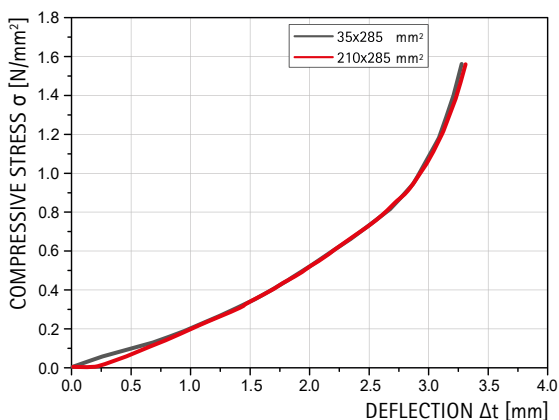
Chosen: Elastomeric bearing width 60 mm

$F_{E,d} = 58$  kN/m < 89 kN/m =  $F_{R,d}$

existing  $\alpha = 17$  ‰ < 40 ‰ = zul.  $\alpha$

existing  $u = \pm 5$  mm < zul.  $u = \pm 10$  mm

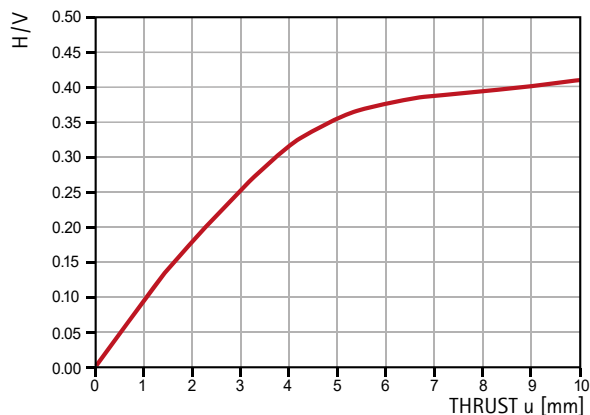
#### Load deflection curve



#### DIAGRAM

Pressure surfaces concrete, Bearing widths: 35 to 200 mm

#### H / V



#### DIAGRAM

Ratio of horizontal force H to vertical force V

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