Type

FHY M6

FHY M8

FHY M₁₀

Loads

Material/

surface

avz

gvz

avz

R R

R

gvz

gvz

gvz

R

R R

avz

gvz R

²⁾ Further steel grades, versions and technical data see approval.

Hollow-ceiling anchor FHY	
Permissible loads ⁿ of a single anchor in pre-stressed hollow-core concrete slabs of strength class ≥ C45/55.	

Required edge distance

(with one edge) for max.

load

[mm]

150

150

150

150

150

150

150

150

150

150

150

150

150

150

150

150

3) Maximum load for char, spacing and edge distances. Valid for tensile load, shear load and oblique load under any angle. In the case of shear loads with lever arm (bending) as well as

C_{cr}

Installation

torque

Tinet

8

8

8

15

15

15

10

10

10

20

20

20

20

20

40

40

reduced/minimum spacing or edge distances (anchor groups), the design must be carried out in accordance with the provisions of the complete technical permit.

¹⁾ The partial safety factors for material resistance as regulated in the ETA as well as a partial safety factor for load actions of γ₁ = 1.4 are considered.

[Nm]

Pre-stressed hollow-core concrete slabs

minimum spacing (s_{min}) and edge distances (c_{min})

C_{min} 4)

[mm]

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

100

S_{min}⁴⁾

[mm]

70

80

100

70

80

100

70

80

100

70

80

100

80

100

80

100

Permissible load (F_nerm);

with reduced loads

F_{nerm} 3)

[kN]

0.7

0.9

2.0

0.7

0.9

2.0

0.7

0.9

2.0

0.7

0.9

2.0

1.2

3.0

1.2

3.0

For the design the complete general construction technique permit Z-21.1-1711 from 05.12.2022 has to be considered.

Screw

8.8

8.8

8.8

A4 - 70

A4 - 70

A4 - 70

4.6

4.6

46

A4 - 70

4) Minimum possible axial spacings resp. edge distance while reducing the permissible load.

4.6

4.6

material2)

Bottom flange

thickness

d,

[mm]

25 - 29

30 - 39

25 - 29

30 - 39

25 - 29

30 - 39

25 - 29

30 - 39

30 - 39

30 - 39

≥40

≥ 40

≥40

> 40

≥40

≥40