

Punching reinforcement. Perfect solution for flat slabs.

Flat slabs. Cost-effective solution.



Punching of flat slabs

The shear force capacity of flat slabs at the column connection is very limited. High loads can occur to a fatal punching failure. This can be avoided by Schöck Bole.





At the first flag with exact description of the element.

To overcome the well-known danger of punching failure in flat slabs and foundations, the Schöck Bole system offers a very flexible solution. The combination of high planning reliability and user friendly installation enables the system to play a critical role in the reliable and economical stud rail concreting system.





Tested and approved by different Institutes e.g.

- University Cottbus
- University Stuttgart
- wide variety of tests in our own laboratory



Simple installation

The subsequent installation through the upper reinforcement layer is possible without problem

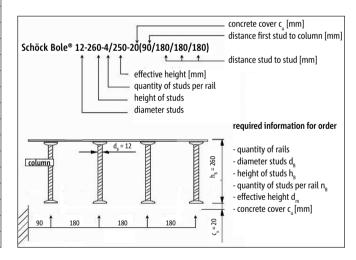


Bole Standard, Bole U

Schöck Bole. **Basic specifications.**

Stud	Stud diameter Ø mm*					
height**	10	12	14	16	20	25
130	х	х	_	_	_	_
140	х	х	-	-	_	-
150	х	х	-	-	_	-
160	х	х	x	x	-	-
170	х	х	x	х	_	_
180	х	х	x	х	_	_
190	х	х	x	x	x	x
200	х	х	x	x	x	x
210	х	х	x	x	x	x
220	х	х	x	x	x	x
230	х	х	x	x	x	x
240	х	х	х	х	х	х
250	х	х	х	х	х	x
260	х	х	x	x	x	x
270	х	х	x	x	x	x
280	х	х	x	x	x	x
290	х	х	x	x	x	x
300	х	х	х	х	х	х
310	_	_	х	х	х	х
320	-	-	x	x	x	x
330	-	_	x	x	x	x
340	-	-	x	х	x	x
350	-	-	x	х	x	x
360	-	-	x	х	x	x
370	-	-	x	x	x	x
380	_	_	x	x	x	x
390	-	-	х	х	х	х
400	-	-	x	x	x	x

Stud diameter	Head diameter		Bearing capacity	Stud height
		section	1.10.1	
d _B	d _κ	A _B	(A*fyd)	h _B
[mm]	[mm]	[mm²]	[kN]	[mm]
10	30	79	34.1	
12	36	113	49.2	$h_{B} = h - c_{o} - c_{u}$
14	42	154	67.0	
16	48	201	87.5	h: slab thickness
20	60	314	136.7	c _o : concrete cover c _o
25	75	491	213.7	c _u : concrete cover c _u



* yield strength 500 MPa, tensile strength 550 MPa ** other stud heights are available on request

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