

## Stiffening angle with/L bolts



Stiffening angle for use with wall bolts, technical bolts and PE foam bolts. Use in accordance with the consultant's directions to stiffen bolts longer than the specified length. The standard distance between holes is 250 mm. For angles 90x90x10 and 125x125x12 and 160x160x14, c-c distance between the holes for the L-bolt is 125 mm. This fulfils the requirement for a maximum distance of 150 mm from the outer L-bolt to the wall element/rock face in a simple manner. Between the outer points of the stiffening angle, L-bolt may be installed with a c-c distance of 250 mm.

### Stock programme:

Angle 50x50x5	L=5750
Angle 70x70x7	L=5750
Angle 90x90x10	L=5750
Angle 125x125x12	L=5750
Angle 160x160x14	L=5750

### Corresponding L-bolt:

M10x46
M12x72
M12x72, M12x80/90
M12x72, M12x80/90
M12x72, M12x80/90

### Fits rebar bolt:

Ø16 and Ø20
Ø20 and Ø25
Ø25 and Ø32
Ø25 and Ø32
Ø25 and Ø32



### Technical information:

Angle:

Material: S235J2 (Q235D) or equivalent

L-bolt delivered in two versions:

1.4401 (AISI316) or equivalent, or steel S235J2 delivered with Pc-Coat 2 pcs.

threaded to the L-bolt.

nuts complying with DIN 934 plus 2 of washers complying with DIN 125 supplied

### Dimensions:

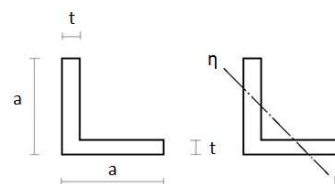
### Weight:

### Tension Area:

### Moment of inertia: Bending moment $\eta$ - $\eta$

cm<sup>4</sup>

50x50x5:	4.06 kg/m	480.3 mm <sup>2</sup>	4.5 cm <sup>4</sup>
70x70x7:	7.53 kg/m	942.4 mm <sup>2</sup>	17.5 cm <sup>4</sup>
90x90x10:	13.90 kg/m	1716.7 mm <sup>2</sup>	52.9 cm <sup>4</sup>
125x125x10:	21.60 kg/m	2891.2 mm <sup>2</sup>	172 cm <sup>4</sup>
160x160x14:	33.99 kg/m	4329.6 mm <sup>2</sup>	426 cm <sup>4</sup>



### Reference drawing:

Angle 50x50x5:	PTC-099	L-bolt M10x46:	PTC-100
Angle 70x70x7:	PTC-101	L-bolt M12-72:	PTC-068
Angle 90x90x10:	PTC-066	L-bolt M12x80/90:	PTC-068-1
Angle 125x125x10:	PTC-067		
Angle 160x160x14:	PTC-067-1		

### Corrosion protection/Pc-Coat

Hot-dip galvanization is carried out in compliance with NS-EN-ISO 1461 and epoxy powder coating in compliance with NS-EN 13438. With regard to coating thickness and further information, please see Document Q/PTC-T19A – Specification for Pc-Coat – SVV/JBV.

Please also refer to the Pc-Coat Product Data Sheet and accompanying FDV documentation.

### Accessories:

Wall bolts, technical bolts and polyurethane foam bolts.