






## Connectors - Concrete Steel M Series

SPECIAL ORDER

### Product information

The innovative connectors are suitable for use in many different fields of construction. From working with nodal points in timber construction or roof and wall components to mixed and special structures with steel or concrete - everything is possible. Simple and fast calculation, high degree of prefabrication, and quick installation.

CS M Series	
	<b>M 15 CS</b> Dimensions: 60 x 90mm Thickness: 20mm Minimum cross-section: SB 80x120mm
	<div>Screws</div> <div> Rated value for carrying capability for C 25/30*  approx. 12.10 kN </div>
<div> <b>Timber:</b> 9 units, 6.5x65  <b>Concrete:</b> 4 units, MMS-F 7.5x60 </div>	
	<b>M 20 CS</b> Dimensions: 60 x 110mm Thickness: 20mm Minimum cross-section: SB 80x140mm
	<div>Screws</div> <div> Rated value for carrying capability for C 25/30*  approx. 13.60 kN </div>
<div> <b>Timber:</b> 11 units, 6.5x65  <b>Concrete:</b> 4 units, MMS-F 7.5x60 </div>	
	<b>M 25 CS</b> Dimensions: 60 x 130mm Thickness: 20mm Minimum cross-section: SB 80x160mm
	<div>Screws</div> <div> Rated value for carrying capability for C 25/30*  approx. 15.10 kN </div>
<div> <b>Timber:</b> 13 units, 6.5x65  <b>Concrete:</b> 4 units, MMS-F 7.5x60 </div>	
	<b>M 30 CS</b> Dimensions: 60 x 150mm Thickness: 20mm Minimum cross-section: SB 80x180mm
	<div>Screws</div> <div> Rated value for carrying capability for C 25/30*  approx. 16.60 kN </div>
<div> <b>Timber:</b> 15 units, 6.5x65  <b>Concrete:</b> 6 units, MMS-F 7.5x60 </div>	
	<b>M 40 CS</b> Dimensions: 60 x 170mm Thickness: 20mm Minimum cross-section: SB 80x200mm
	<div>Screws</div> <div> Rated value for carrying capability for C 25/30*  approx. 18.10 kN </div>
<div> <b>Timber:</b> 17 units, 6.5x65  <b>Concrete:</b> 6 units, MMS-F 7.5x60 </div>	

\* Measured values with HECO MMS-F concrete screws in kN with steel-reinforced concrete quality C 25/30, adhering to the minimum edge distances and minimum component thicknesses. The connection to the timber cross-section must be considered and assessed depending on the timber quality.






Note - SHERPA special screws are to be used with these products.

Connectors - Concrete Steel L Series

SPECIAL ORDER

**Product information**

The innovative connectors are suitable for use in many different fields of construction. From working with nodal points in timber construction or roof and wall components to mixed and special structures with steel or concrete - everything is possible. Simple and fast calculation, high degree of prefabrication, and quick installation.

CS L Series	
	<b>L 30 CS</b> Dimensions: 80 x 150mm Thickness: 29mm Minimum cross-section: SB 100x180mm
	<div>Screws</div> <div> <b>Timber:</b> 9 units, 8.0x100  <b>Concrete:</b> 4 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 39.50 kN </div>
	<b>L 40 CS</b> Dimensions: 80 x 170mm Thickness: 29mm Minimum cross-section: SB 100x200mm
	<div>Screws</div> <div> <b>Timber:</b> 11 units, 8.0x100  <b>Concrete:</b> 4 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 42.70 kN </div>
	<b>L 50 CS</b> Dimensions: 80 x 210mm Thickness: 29mm Minimum cross-section: SB 100x240mm
	<div>Screws</div> <div> <b>Timber:</b> 13 units, 8.0x100  <b>Concrete:</b> 6 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 49.70 kN </div>
	<b>L 60 CS</b> Dimensions: 80 x 250mm Thickness: 29mm Minimum cross-section: SB 100x280mm
	<div>Screws</div> <div> <b>Timber:</b> 15 units, 8.0x100  <b>Concrete:</b> 6 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 56.50 kN </div>
	<b>L 80 CS</b> Dimensions: 80 x 290mm Thickness: 29mm Minimum cross-section: SB 100x320mm
	<div>Screws</div> <div> <b>Timber:</b> 17 units, 8.0x100  <b>Concrete:</b> 6 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 63.30 kN </div>

Minimum cross-section SB | minimum cross-section, secondary timber beam

Note - SHERPA special screws are to be used with these products.

## Connectors - Concrete Steel XL Series

SPECIAL ORDER

### Product information

The innovative connectors are suitable for use in many different fields of construction. From working with nodal points in timber construction or roof and wall components to mixed and special structures with steel or concrete - everything is possible. Simple and fast calculation, high degree of prefabrication, and quick installation.

CS XL Series	
	<b>XL 55 CS</b> Dimensions: 120 x 250mm Thickness: 29mm Minimum cross-section: SB 140x280mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 63.60 kN <b>Timber:</b> 10 units, 8x160 <b>Concrete:</b> 6 units, MMS-F 10x80
	<b>XL 70 CS</b> Dimensions: 120 x 290mm Thickness: 29mm Minimum cross-section: SB 140x320mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 64.00 kN <b>Timber:</b> 12 units, 8x160 <b>Concrete:</b> 6 units, MMS-F 10x80
	<b>XL 80 CS</b> Dimensions: 120 x 330mm Thickness: 29mm Minimum cross-section: SB 140x360mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 79.30 kN <b>Timber:</b> 14 units, 8x160 <b>Concrete:</b> 8 units, MMS-F 10x80
	<b>XL 100 CS</b> Dimensions: 120 x 370mm Thickness: 29mm Minimum cross-section: SB 140x400mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 85.30 kN <b>Timber:</b> 14 units, 8x160 <b>Concrete:</b> 8 units, MMS-F 10x80
	<b>XL 120 CS</b> Dimensions: 120 x 410mm Thickness: 29mm Minimum cross-section: SB 140x440mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 85.30 kN <b>Timber:</b> 16 units, 8x160 <b>Concrete:</b> 8 units, MMS-F 10x80
	<b>XL 140 CS</b> Dimensions: 120 x 450mm Thickness: 29mm Minimum cross-section: SB 140x480mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 85.30 kN <b>Timber:</b> 18 units, 8x160 <b>Concrete:</b> 8 units, MMS-F 10x80
	<b>XL 170 CS</b> Dimensions: 120 x 490mm Thickness: 29mm Minimum cross-section: SB 140x520mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 85.30 kN <b>Timber:</b> 20 units, 8x160 <b>Concrete:</b> 8 units, MMS-F 10x80
	<b>XL 190 CS</b> Dimensions: 120 x 530mm Thickness: 29mm Minimum cross-section: SB 140x560mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 106.70 kN <b>Timber:</b> 22 units, 8x160 <b>Concrete:</b> 10 units, MMS-F 10x80
	<b>XL 250 CS</b> Dimensions: 120 x 610mm Thickness: 29mm Minimum cross-section: SB 140x640mm
	<b>Screws</b> Rated value for carrying capability for C 25/30* approx. 106.70 kN <b>Timber:</b> 26 units, 8x160 <b>Concrete:</b> 10 units, MMS-F 10x80

Minimum cross-section SB | minimum cross-section, secondary timber beam

\* Measured values with HECO MMS-F concrete screws in kN with steel-reinforced concrete quality C 25/30, adhering to the minimum edge distances and minimum component thicknesses. The connection to the timber cross-section must be considered and assessed depending on the timber quality.







Note - SHERPA special screws are to be used with these products.

Connectors - Concrete Steel XXL Series

SPECIAL ORDER

**Product information**

The innovative connectors are suitable for use in many different fields of construction. From working with nodal points in timber construction or roof and wall components to mixed and special structures with steel or concrete - everything is possible. Simple and fast calculation, high degree of prefabrication, and quick installation.

CS XXL Series	
	<b>XXL 170 CS</b> Dimensions: 140 x 410mm Thickness: 29mm Minimum cross-section: SB 160x440mm
	<div>Screws</div> <div> <b>Timber:</b> 21 units, 8x160  <b>Concrete:</b> 14 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 85.30 kN </div>
	<b>XXL 190 CS</b> Dimensions: 140 x 450mm Thickness: 29mm Minimum cross-section: SB 160x480mm
	<div>Screws</div> <div> <b>Timber:</b> 24 units, 8x160  <b>Concrete:</b> 14 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 85.30 kN </div>
	<b>XXL 220 CS</b> Dimensions: 140 x 490mm Thickness: 29mm Minimum cross-section: SB 160x520mm
	<div>Screws</div> <div> <b>Timber:</b> 27 units, 8x160  <b>Concrete:</b> 18 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 106.70 kN </div>
	<b>XXL 250 CS</b> Dimensions: 140 x 530mm Thickness: 29mm Minimum cross-section: SB 160x560mm
	<div>Screws</div> <div> <b>Timber:</b> 30 units, 8x160  <b>Concrete:</b> 18 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 106.70 kN </div>
	<b>XXL 280 CS</b> Dimensions: 140 x 570mm Thickness: 29mm Minimum cross-section: SB 160x600mm
	<div>Screws</div> <div> <b>Timber:</b> 30 units, 8x160  <b>Concrete:</b> 18 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 106.70 kN </div>
	<b>XXL 300 CS</b> Dimensions: 140 x 610mm Thickness: 29mm Minimum cross-section: SB 160x640mm
	<div>Screws</div> <div> <b>Timber:</b> 33 units, 8x160  <b>Concrete:</b> 18 units, MMS-F 10x80 </div> <div> Rated value for carrying capability for C 25/30*  approx. 106.70 kN </div>

Note - SHERPA special screws are to be used with these products.

Minimum cross-section SB | minimum cross-section, secondary timber beam

\* Measured values with HECO MMS-F concrete screws in kN with steel-reinforced concrete quality C 25/30, adhering to the minimum edge distances and minimum component thicknesses. The connection to the timber cross-section must be considered and assessed depending on the timber quality.