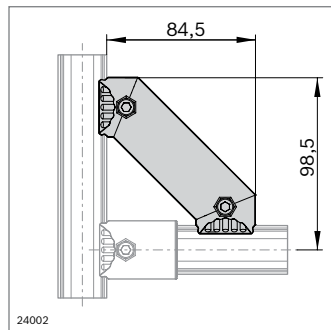
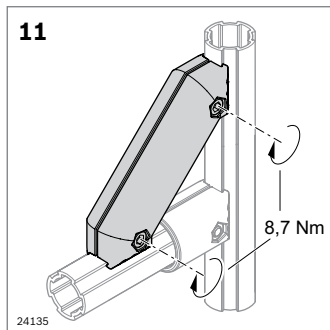


45° connector	ESD	No.	FS
		20	3 842 541 175 FS1

Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)

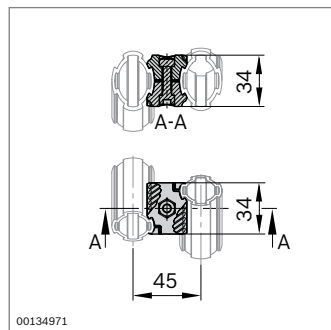
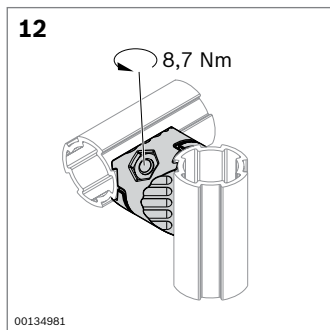
- FS1**
- ISO 4762 M6x25
  - ISO 10511 M6



45° D28L strut	ESD	No.	FS
		20	3 842 548 118 2x FS1

Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)

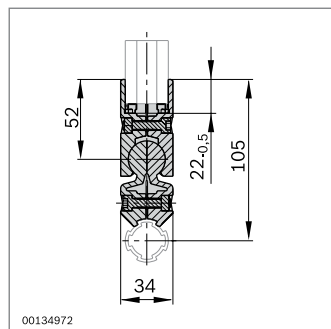
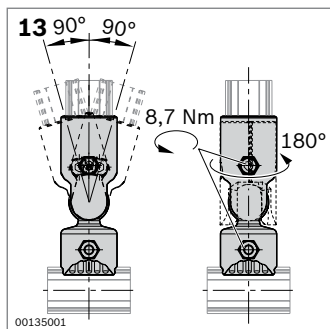
- FS1**
- ISO 4762 M6x25
  - ISO 10511 M6



Cross connector	ESD	No.	FS
		20	3 842 541 181 FS1

Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)

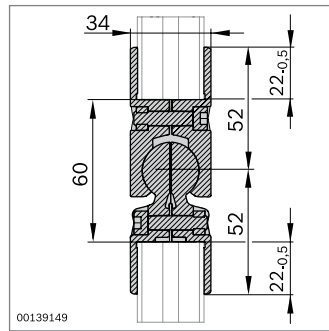
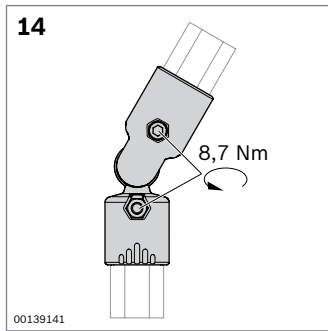
- FS1**
- ISO 4762 M6x25
  - ISO 10511 M6



0°-90° connector	ESD	No.	FS
		20	3 842 541 178 2x FS1

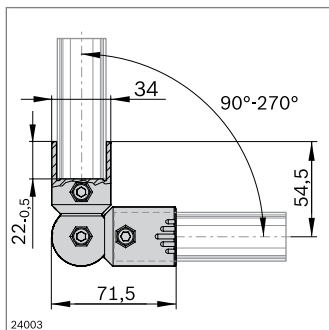
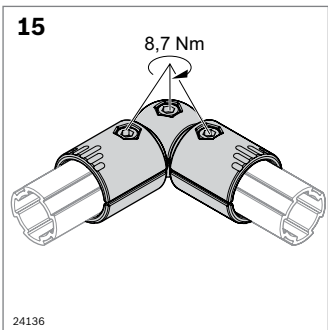
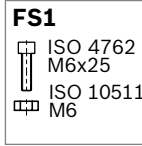
Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)

- FS1**
- ISO 4762 M6x25
  - ISO 10511 M6



0°-90° D28 connector	ESD	No.	FS
	20	<b>3 842 543 480</b>	2x FS1

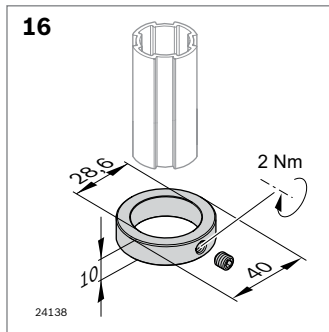
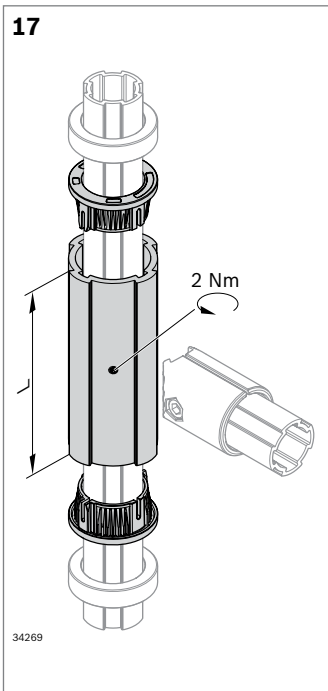
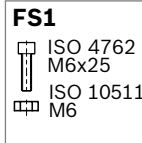
Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)



- ▶ D28 corner bracket for easy adjustment within a 15° range
- ▶ Swivel range: 90°-270°

D28 corner bracket	ESD	No.	FS
	20	<b>3 842 548 123</b>	3x FS1

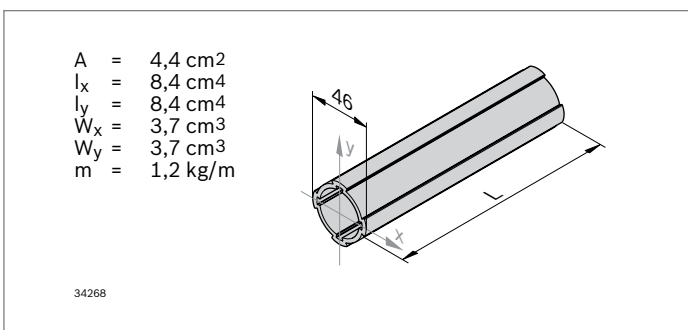
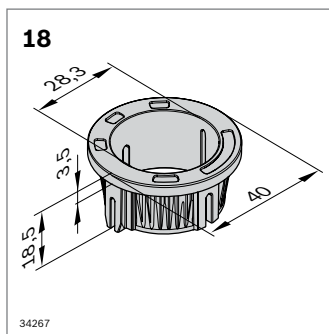
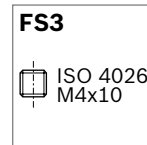
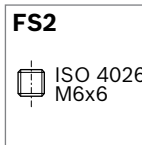
Material: diecast zinc  
 Scope of delivery: includes fastening material (FS)



- ▶ For axial shifting along the D28L or D28L, N10 round tube. The retaining ring determines the end position
- ▶ Construction of swiveling applications
- ▶ Additional thread for flexible bracket adjustment

	L (mm)	ESD	No.	FS
D28L retaining ring		20	<b>3 842 548 122</b>	FS2
D28L swivel bearing	34	20	<b>3 842 548 121</b>	FS3

Material: Retaining ring: aluminum  
 Swivel bearing: aluminum  
 Scope of delivery: Retaining ring: includes fastening material (FS)  
 D28L swivel bearing, L = 34 mm D28L bushing (18): includes fastening material (FS)



For self-assembly:

- ▶ D28L swivel bearing with L = 1000 mm that can be cut to length
- ▶ D28 bushing (18)

	L (mm)	No.
D28L swivel bearing	1000	2
D28 bushing		4

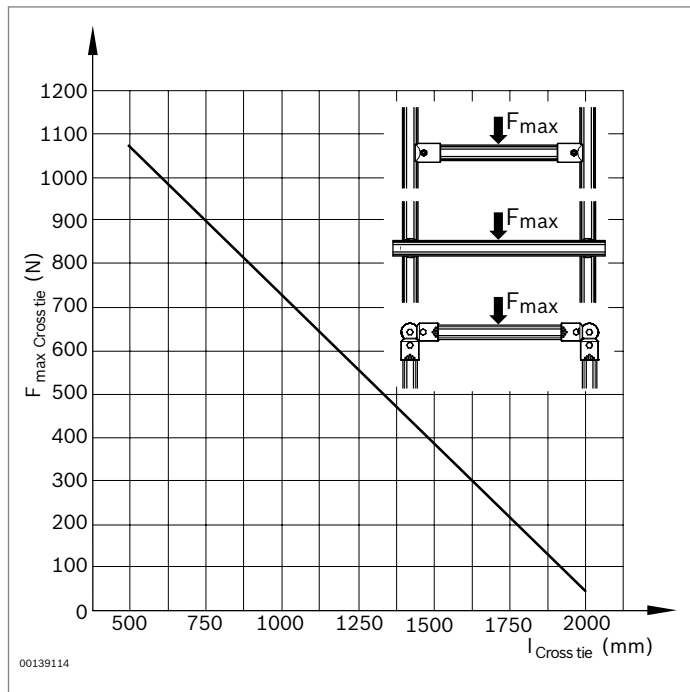
Material: Swivel bearing: aluminum  
 Bushing: POM; black

# EcoShape

The specified tightening and loading limit values were determined as an example in (dry) trials.  
Safety factors and building regulations in accordance with

## Cross tie D28L – permissible point load in the center

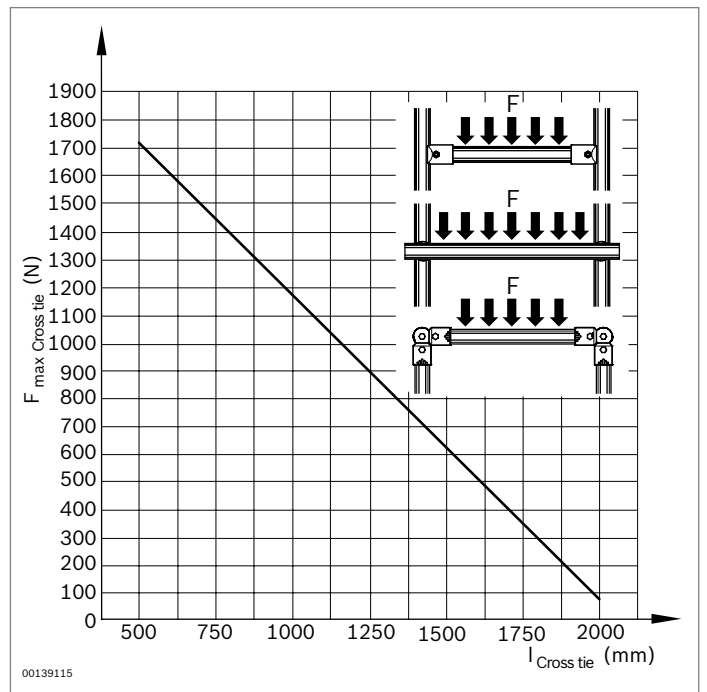
Connector: 90° connector, cross connector, corner piece



the law and accepted engineering practices must be observed.

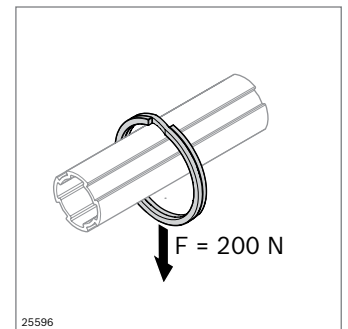
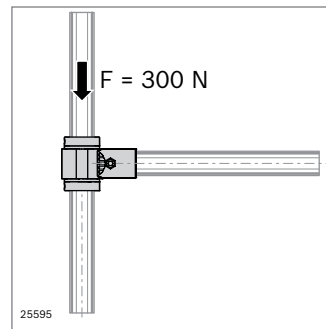
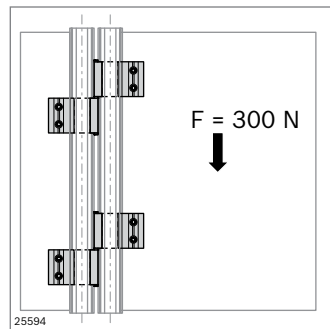
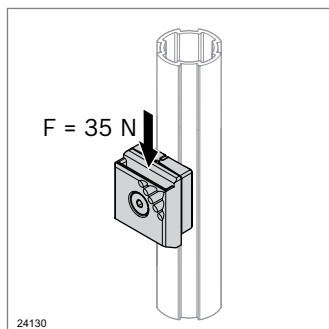
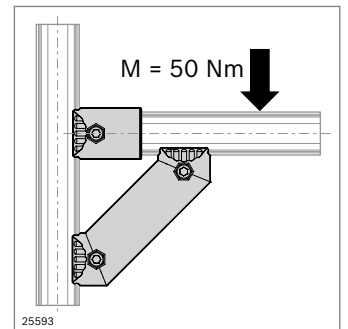
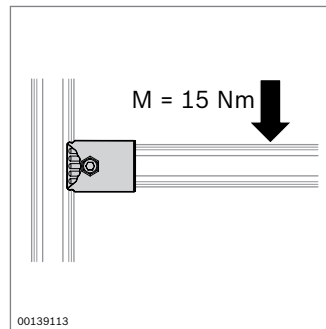
## Cross tie D28L – permissible section load

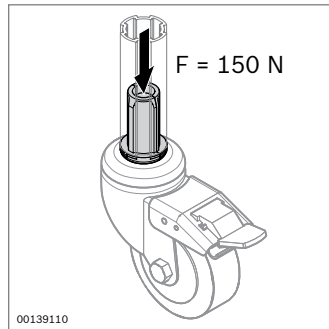
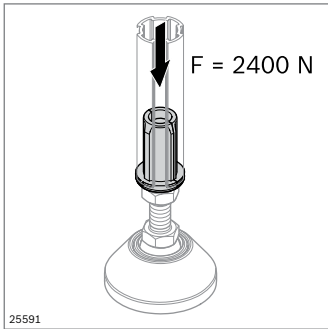
Connector: 90° connector, cross connector, corner piece



## Connector

Static load limit values of the connection  
(beginning of plastic deformation)

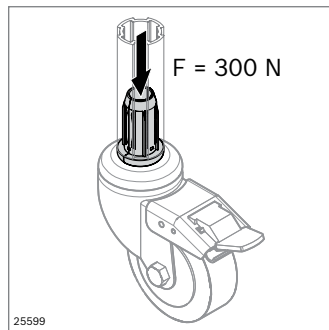
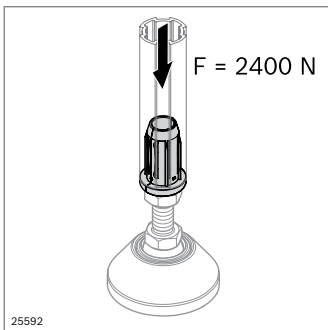




**D28L threaded sleeve (PA)**

Permissible bearing load

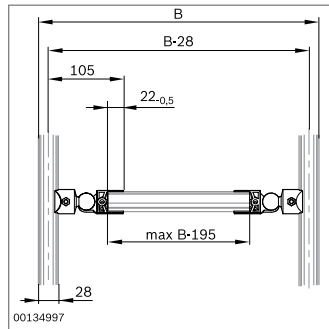
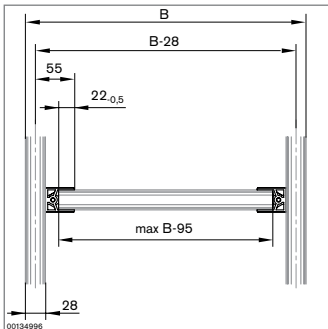
Material shuttle is approved for 60 kg



**D28L threaded sleeve (Zn)**

Permissible bearing load

Material shuttle is approved for 100 kg



**Length calculation**

