

SPIDERS



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**CASTED STAINLESS STEEL SPIDER**

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**CASTED ALUMINIUM SPIDER**

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**CASTED STAINLESS STEEL SPIDER, WITH PLATE**

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# SPIDER

Original texts from "cahier 3574 du CSTB

## The technique

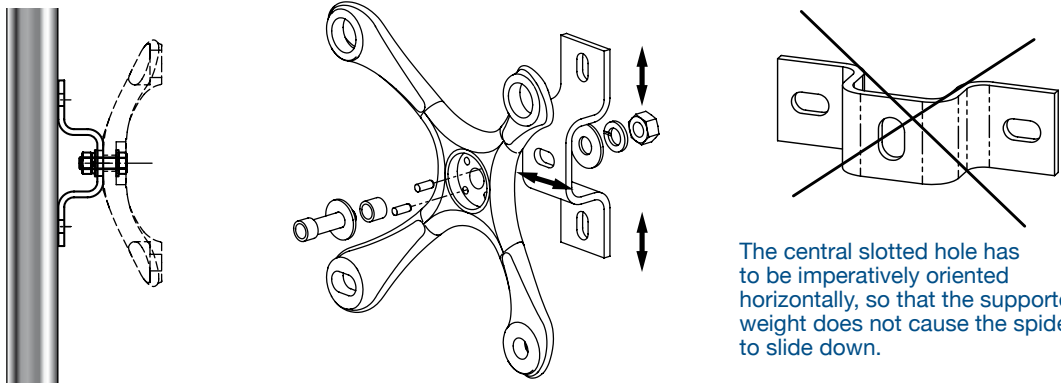
The spider plays the role of intermediary between the carrying structure and the fittings fixed onto the glass panel. The fineness of its lines allows the construction to retain all its transparency.

### 3.1.4 Functional clearances

The anticipated functional clearances of the spiders as well as the point fittings have to allow the glass to move towards their fixing points without creating any stress in the plane of the glass or embedding moments under:

- the effects of the wind or snow loads (shortening of the distance between glass holes and deformation of the structure)
- the differential thermal dilatations between the structure and the glasses
- the differential displacements of the spiders

## The fixing of the spiders on the façade



The central slotted hole has to be imperatively oriented horizontally, so that the supported weight does not cause the spider to slide down.

In order to obtain a correct adjustment of the spider, it is recommended to use an intermediary part, the "Omega". This part allows a bi-directional adjustment.

## Dimensions

**GLASS SIDE VIEW**

The glass panels are either supported or suspended. Every glass is generally held by two carrying points (supporting the weight) allowing horizontal movements due to dilatation...

**Fixed point**  
Ø 17 mm

**Free point**  
Ø 24 mm

**Slotted point**  
Ø 17 x 24 mm

Whichever technical dispositions are adopted for the realization of the functional clearances, those ones have to remain operational with the time (no seizing, buttressing, jamming or uncontrolled tightening...). This can be obtained for example by the use of spacers.

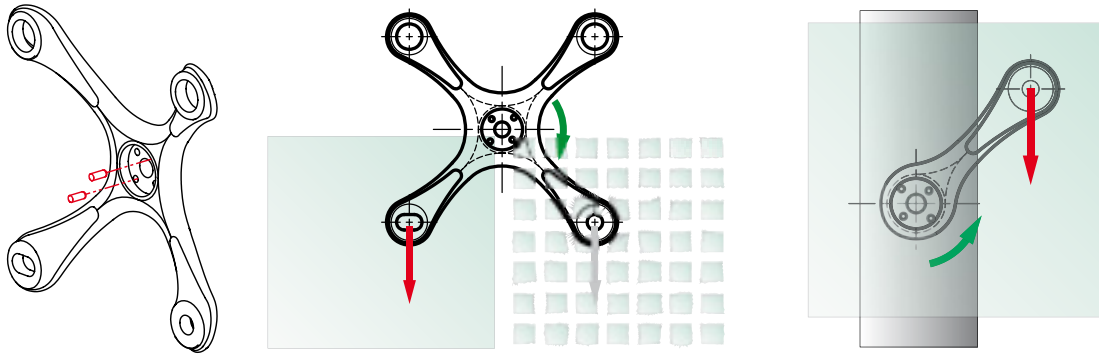
... The other fixing points have to allow movements in all directions in the plane of the glass.

**Free point**  
Ø 24 mm

Cone omega available as an optional (see p.8.24)

## The anti-rotation of the spider

To avoid the risk of displacement of the spiders under the weight of the glasses during installation or in case of accidental glass breakage, the spiders have to be locked in rotation by any appropriate means (for example: use of high resistance bolts under controlled tightening, elastic and cotter pins etc.).



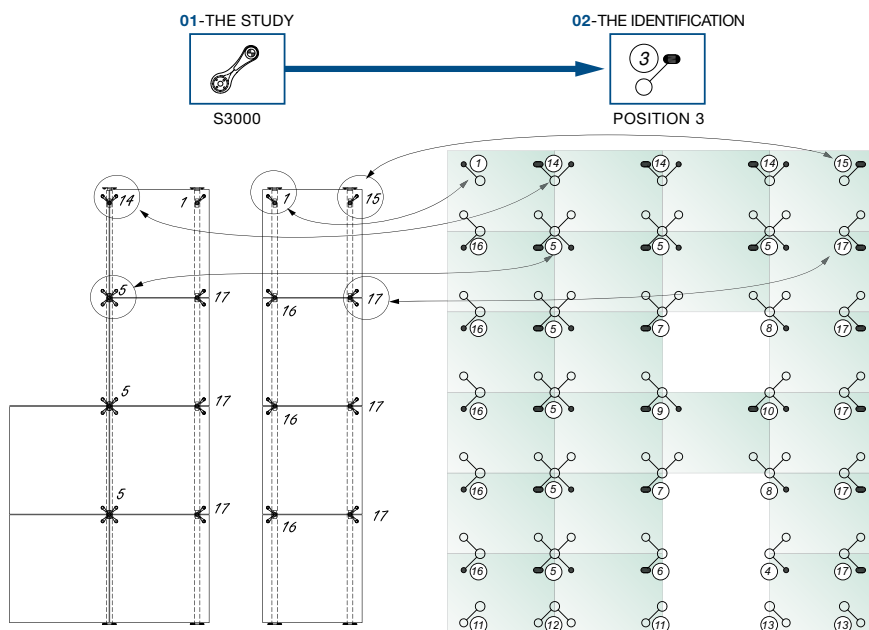
1 - In case of glass breakage, the spider is dragged in rotation by the remaining glass panel. It's from this point that the pins maintain the spider in position.

2 - All spiders positioned at the border of the façade are dragged in rotation by the glass panels. The pins maintain continuously the spiders in position.

## The layout of the spiders on the façade

**Each SADEV spider is delivered in accordance to its position on the façade.**

In order to facilitate the orientation of the different positions, we've classified them in several mounting instructions that cover all scenarios. For all requests, it's sufficient for you to give us the inventory of your different positions. For example: 56 specimens of S3000 - 5.



# S3000 / S3000 DU

Designation : casted stainless steel spider



GLASS SIDE VIEW

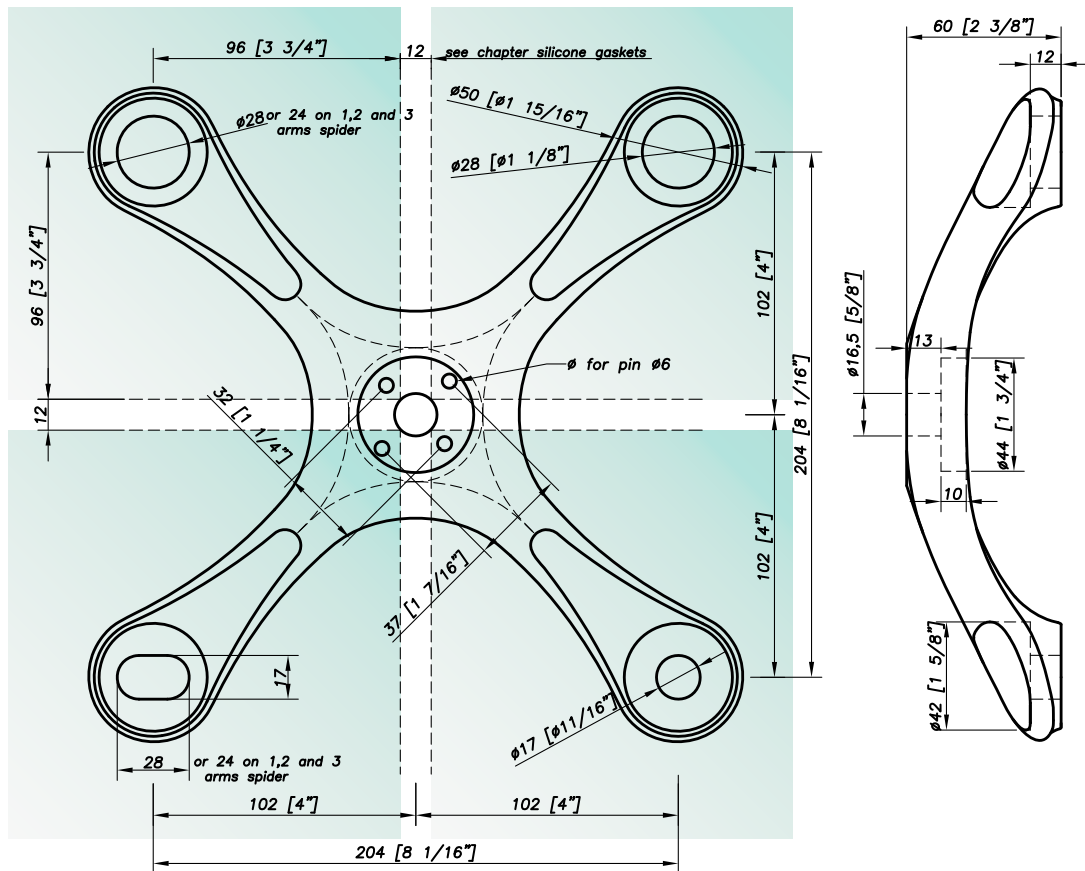
Material : AISI 316

Surface finish : dull polished GR400

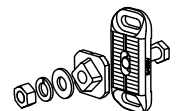
S3000 DU : stainless steel Duplex Uranus 45N

## Dimensions

GLASS SIDE VIEW

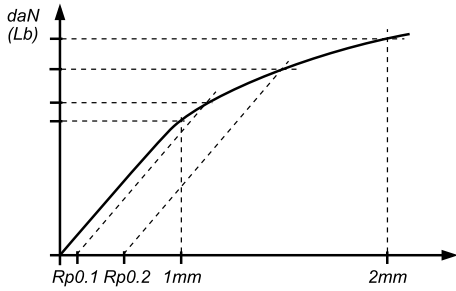


Cone omega available as an optional (see p.8.24)





## Mechanical performances

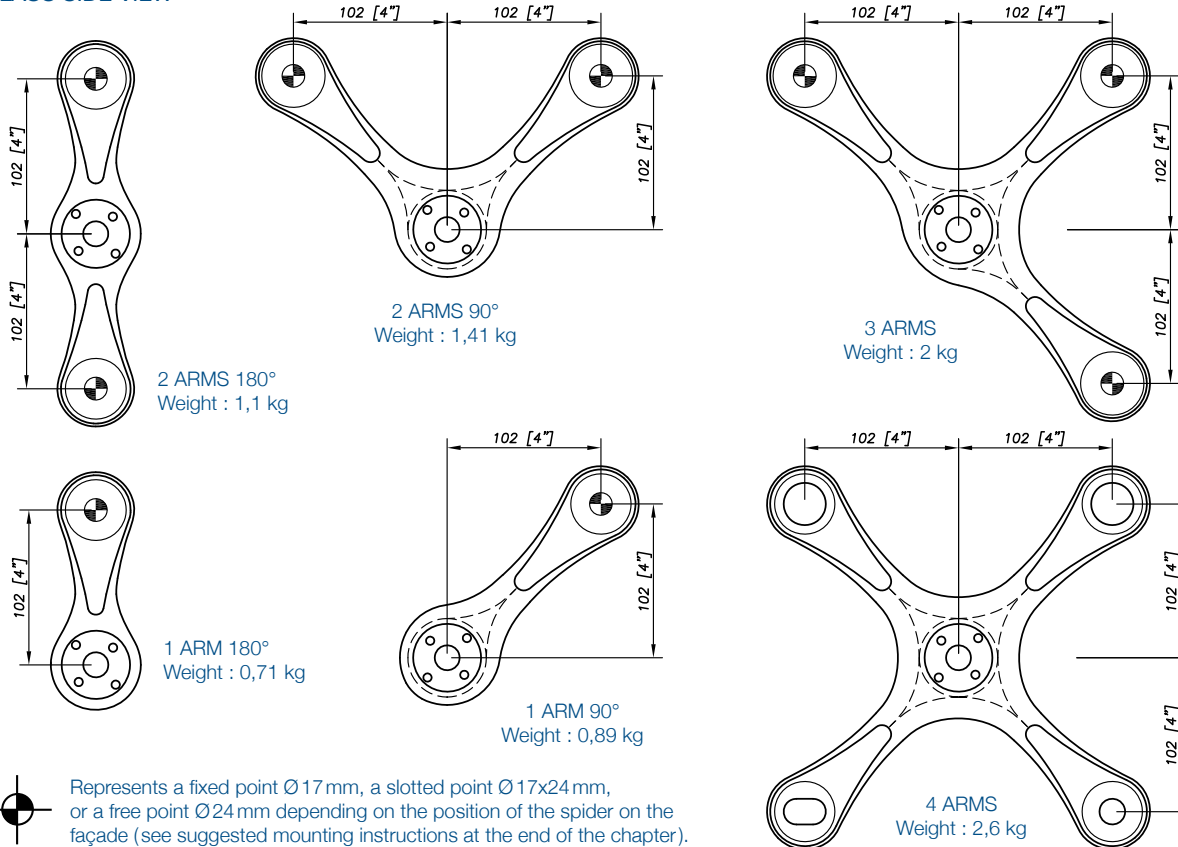


	LOAD PARALLEL TO GLASS PER ARM		LOAD PERPENDICULAR TO GLASS PER ARM	
S3000	1 mm (SLS*)	434 daN (975 lb)	1 mm (SLS*)	238 daN (535 lb)
	2 mm	574 daN (1290 lb)	2 mm	406 daN (912 lb)
	Rp 0,1 (ULS**)	398 daN (894 lb)	Rp 0,1 (ULS**)	300 daN (674 lb)
	Rp 0,2	-	Rp 0,2	367 daN (825 lb)
S3000 DU	1 mm (SLS*)	402 daN (903 lb)	1 mm (SLS*)	296 daN (665 lb)
	2 mm	773 daN (1737 lb)	2 mm	565 daN (1270 lb)
	Rp 0,1 (ULS**)	693 daN (1557 lb)	Rp 0,1 (ULS**)	547 daN (1229 lb)
	Rp 0,2	847 daN (1904 lb)	Rp 0,2	647 daN (1454 lb)

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS – Ultimate Limit State : load at the elastic limit (Rp0.1)  
 Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



Represents a fixed point Ø17 mm, a slotted point Ø17x24mm, or a free point Ø24mm depending on the position of the spider on the façade (see suggested mounting instructions at the end of the chapter).

## Suggested mounting instruction

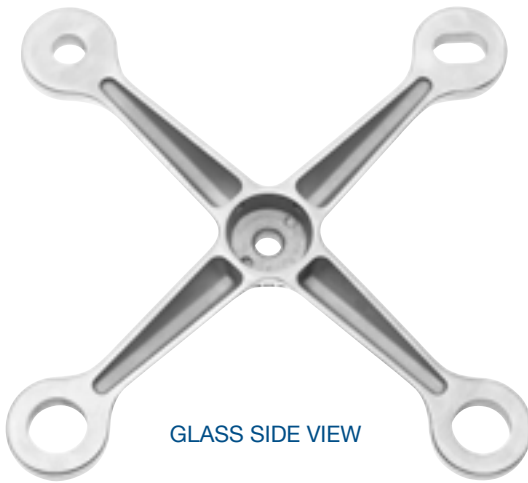
The drilling diameter for the pins is 6mm. Do not drill the holes for the pins in your structure before mounting the spiders. To fix the spider on your structure the "Omega" (see accessories) is highly recommended to adjust the spider's position. The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply).

This bolt shall not be fitted into a vertical slotted holes due to the risk of slipping (under the weight), the pins are not designed to hold any permanent loads (cf. specification sheet). The spider has to be positioned on a flat support. The slotted holes Ø17x24mm and free holes Ø24mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV) ; other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3001 EVO

Designation : casted stainless steel spider



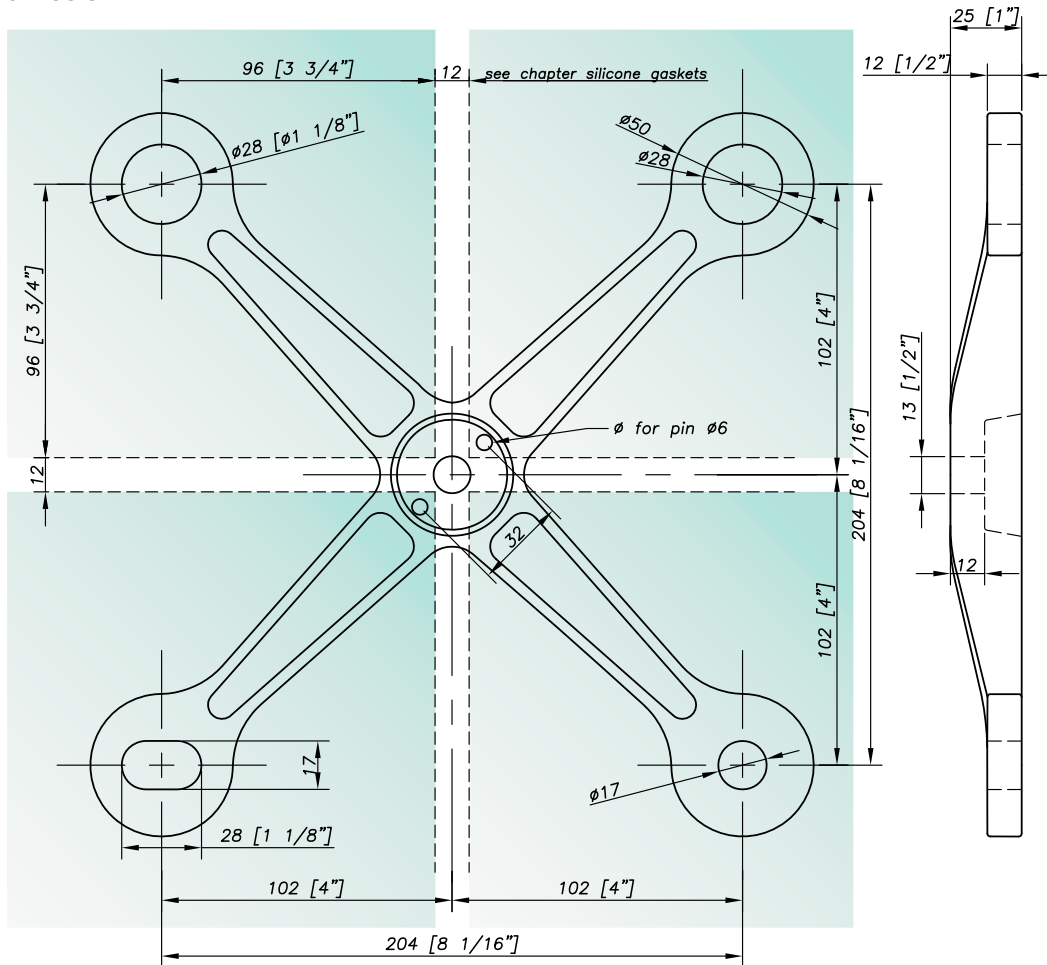
GLASS SIDE VIEW



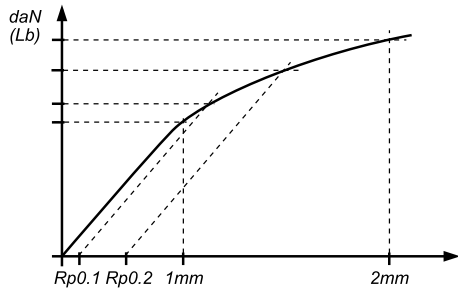
Material: AISI 316 - Surface finish: dull polished GR400 - Other finishes available on request.

## Dimensions

GLASS SIDE VIEW



## Mechanical performances



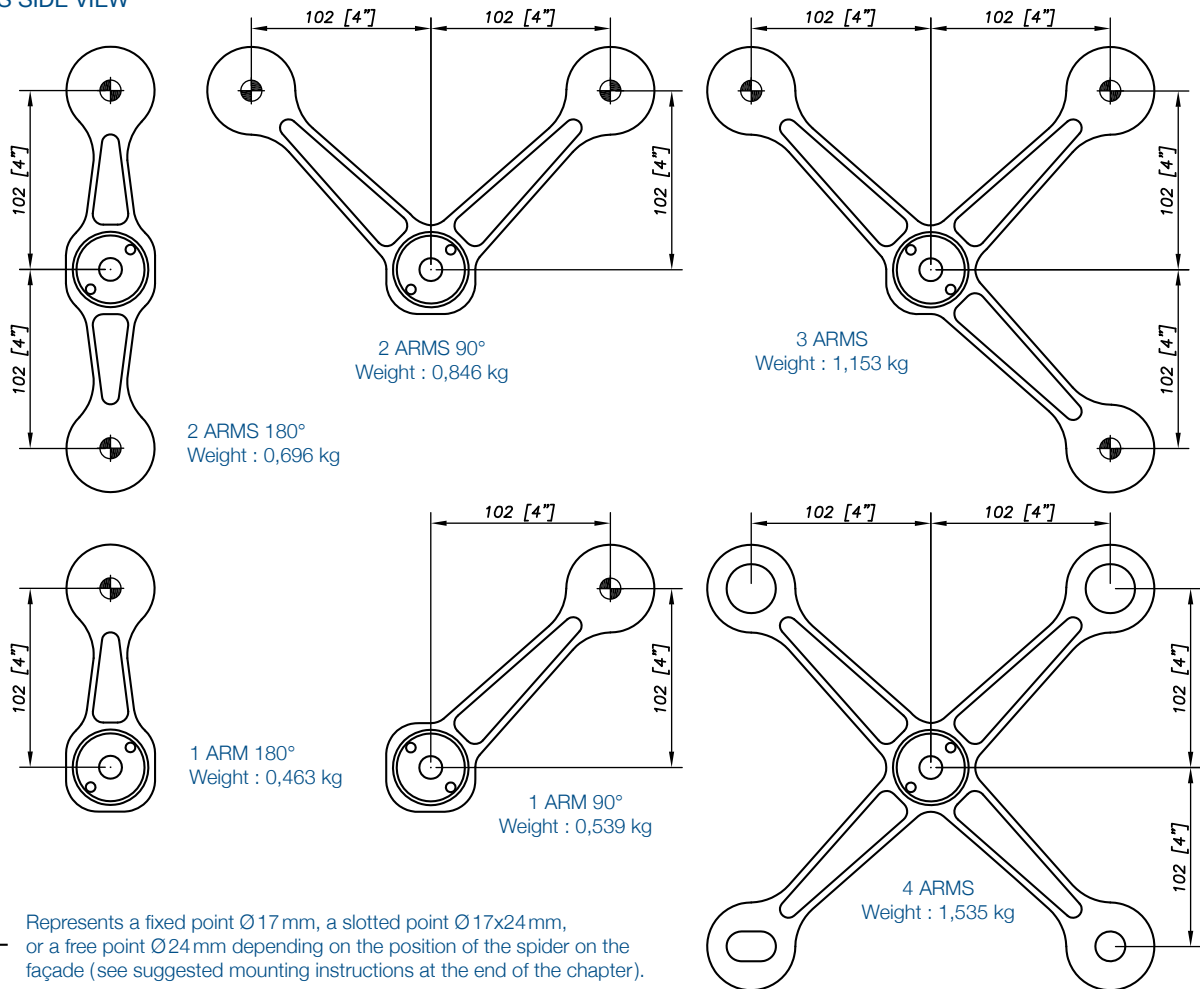
LOAD PARALLEL TO GLASS PER ARM	
1 mm (SLS*)	214 daN (481 lb)
2mm	406 daN (912 lb)
Rp 0,1 (ULS**)	365 daN (820 lb)
Rp 0,2	427 daN (959 lb)

LOAD PERPENDICULAR TO GLASS PER ARM	
1 mm (SLS*)	110 daN (247 lb)
2mm	199 daN (447 lb)
Rp 0,1 (ULS**)	153 daN (343 lb)
Rp 0,2	183 daN (411 lb)

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS - Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



Represents a fixed point Ø17 mm, a slotted point Ø17x24mm, or a free point Ø24mm depending on the position of the spider on the façade (see suggested mounting instructions at the end of the chapter).

## Suggested mounting instruction

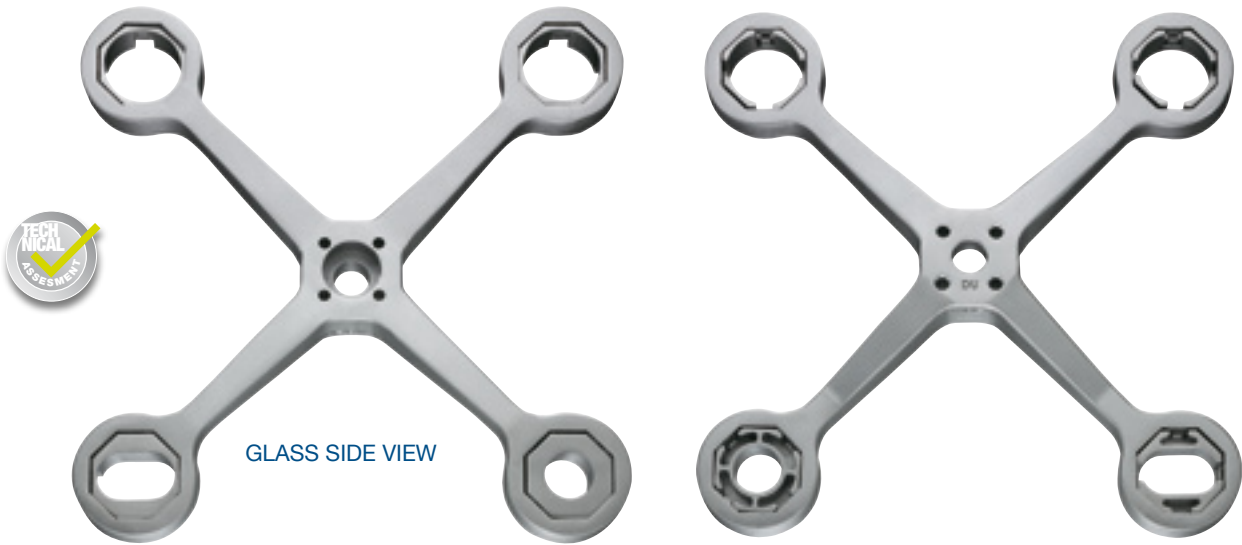
The drilling diameter for the pins is 6mm. Do not drill the holes for the pins in your structure before mounting the spiders. To fix the spider on your structure the "Omega" (see accessories) is highly recommended to adjust the spider's position. The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply).

This bolt shall not be fitted into a vertical slotted holes due to the risk of slipping (under the weight), the pins are not designed to hold any permanent loads (cf. specification sheet). The spider has to be positioned on a flat support. The slotted holes Ø17x24mm and free holes Ø24mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV) ; other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3002

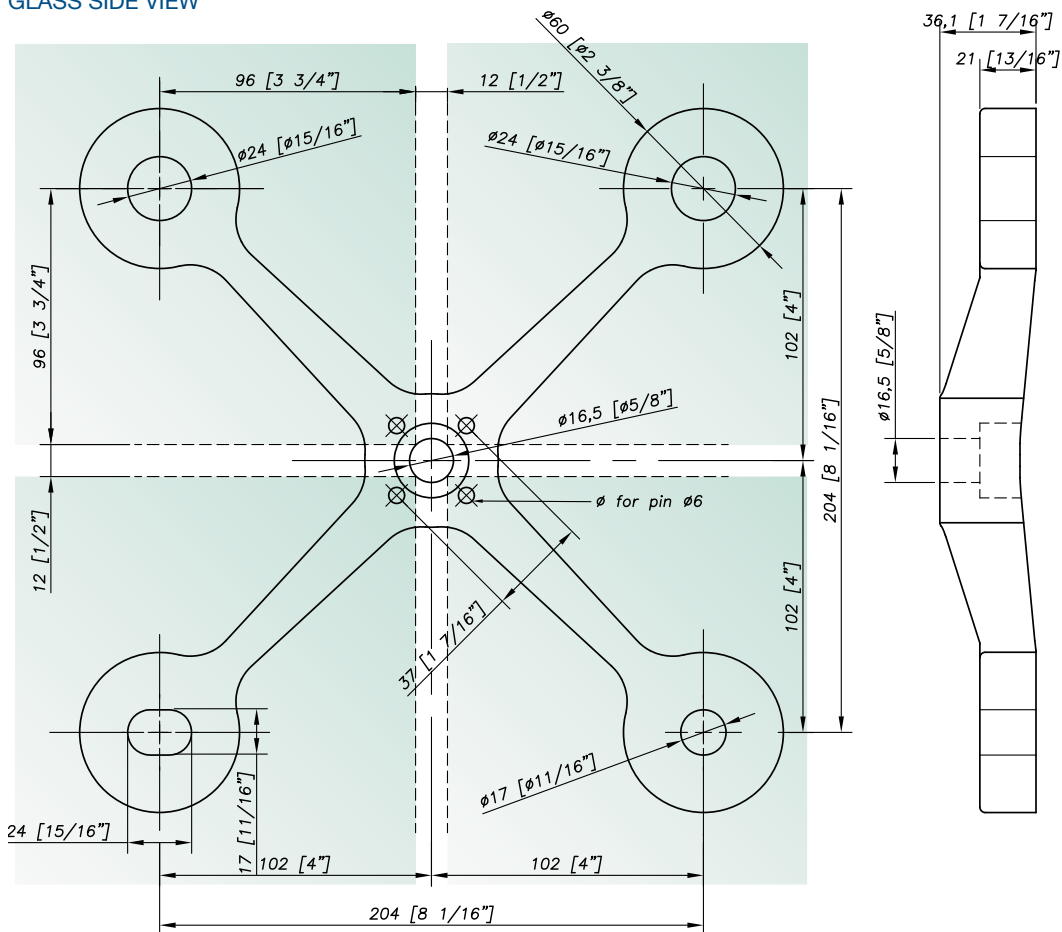
Designation : casted stainless steel spider



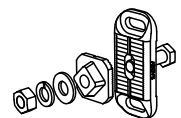
Material : stainless steel Duplex Uranus 45N

## Dimensions

GLASS SIDE VIEW

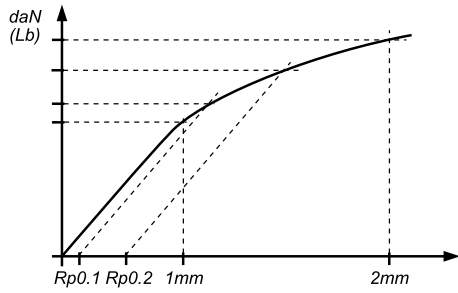


Cone omega available as an optional (see p.8.24)





## Mechanical performances



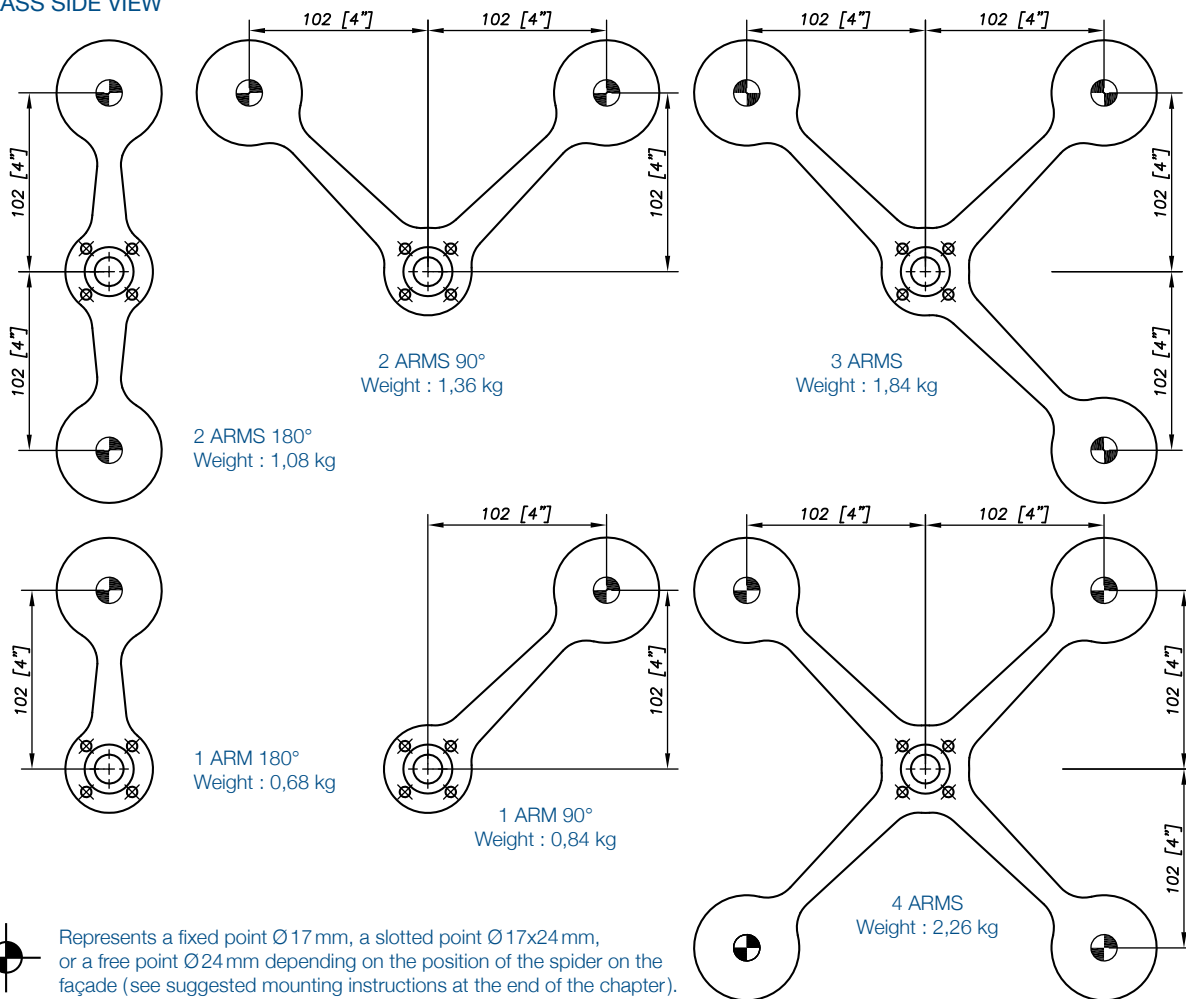
LOAD PARALLEL TO GLASS PER ARM	
1 mm (SLS*)	values on request
2 mm	
Rp0,1 (ULS**)	
Rp0,2	

LOAD PERPENDICULAR TO GLASS PER ARM	
1 mm (SLS*)	values on request
2 mm	
Rp0,1 (ULS**)	
Rp0,2	

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS – Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



## Suggested mounting instruction

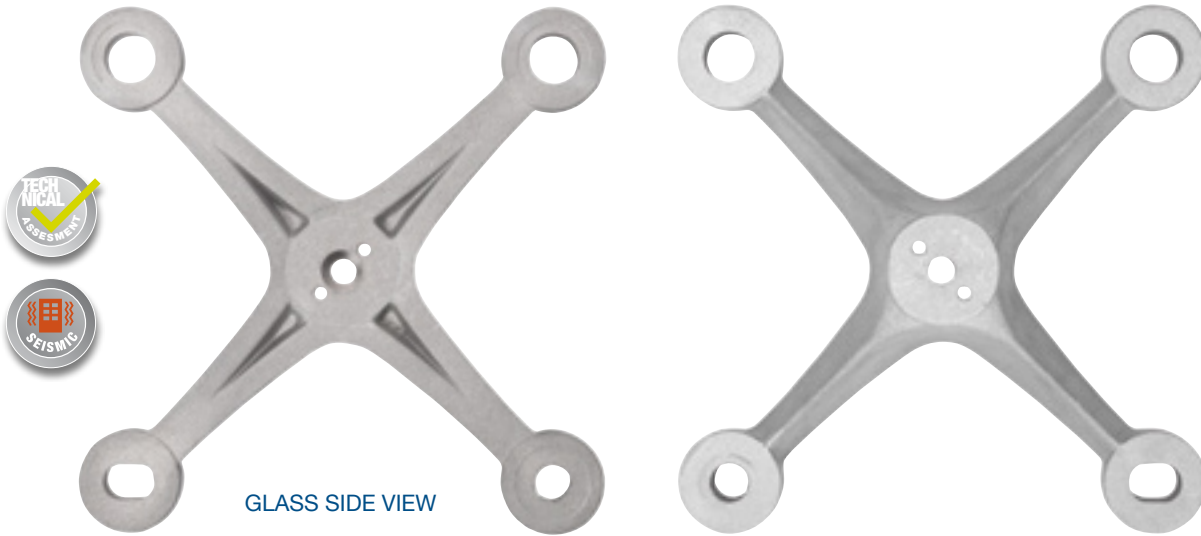
The drilling diameter for the pins is 6mm. Do not drill the holes for the pins in your structure before mounting the spiders. To fix the spider on your structure the "Omega" (see accessories) is highly recommended to adjust the spider's position. The fixing of the spider is done with a M16 (out of Sadev supply).

This bolt shall not be fitted into a vertical slotted holes due to the risk of slipping (under the weight), the pins are not designed to hold any permanent loads (cf. specification sheet). The spider has to be positioned on a flat support. The slotted holes Ø17x24mm and free holes Ø24mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV) ; other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3007

Designation : casted aluminium spider

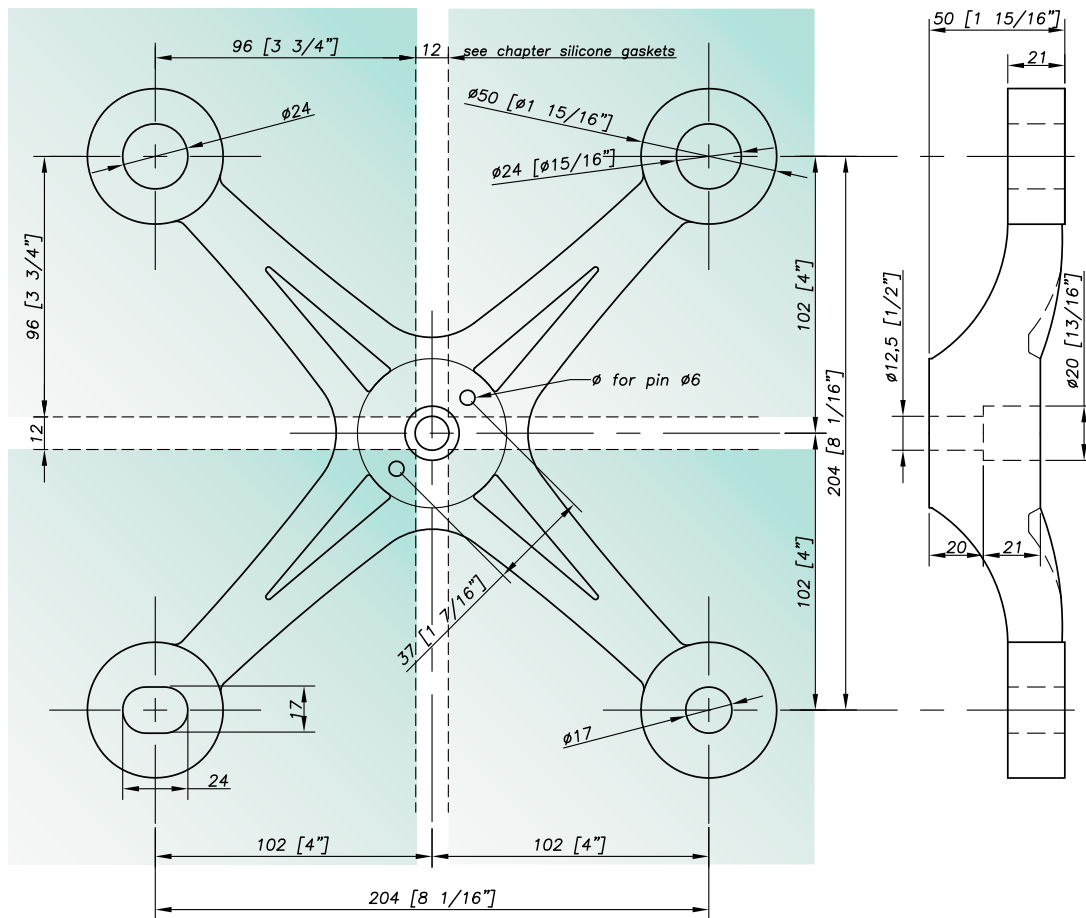


GLASS SIDE VIEW

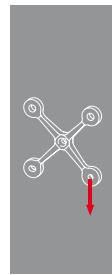
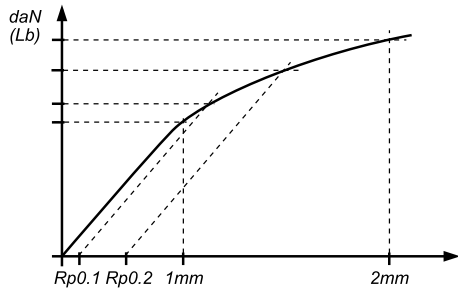
Material : Al Si 5 Mg - Surface finish : Sanded

## Dimensions

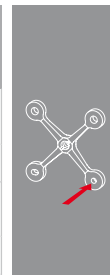
GLASS SIDE VIEW



## Mechanical performances



LOAD PARALLEL TO GLASS PER ARM		
1 mm (SLS*)	235 daN (528 lb)	
2 mm	-	
Rp0,1 (ULS**)	199 daN (447 lb)	
Rp0,2	-	

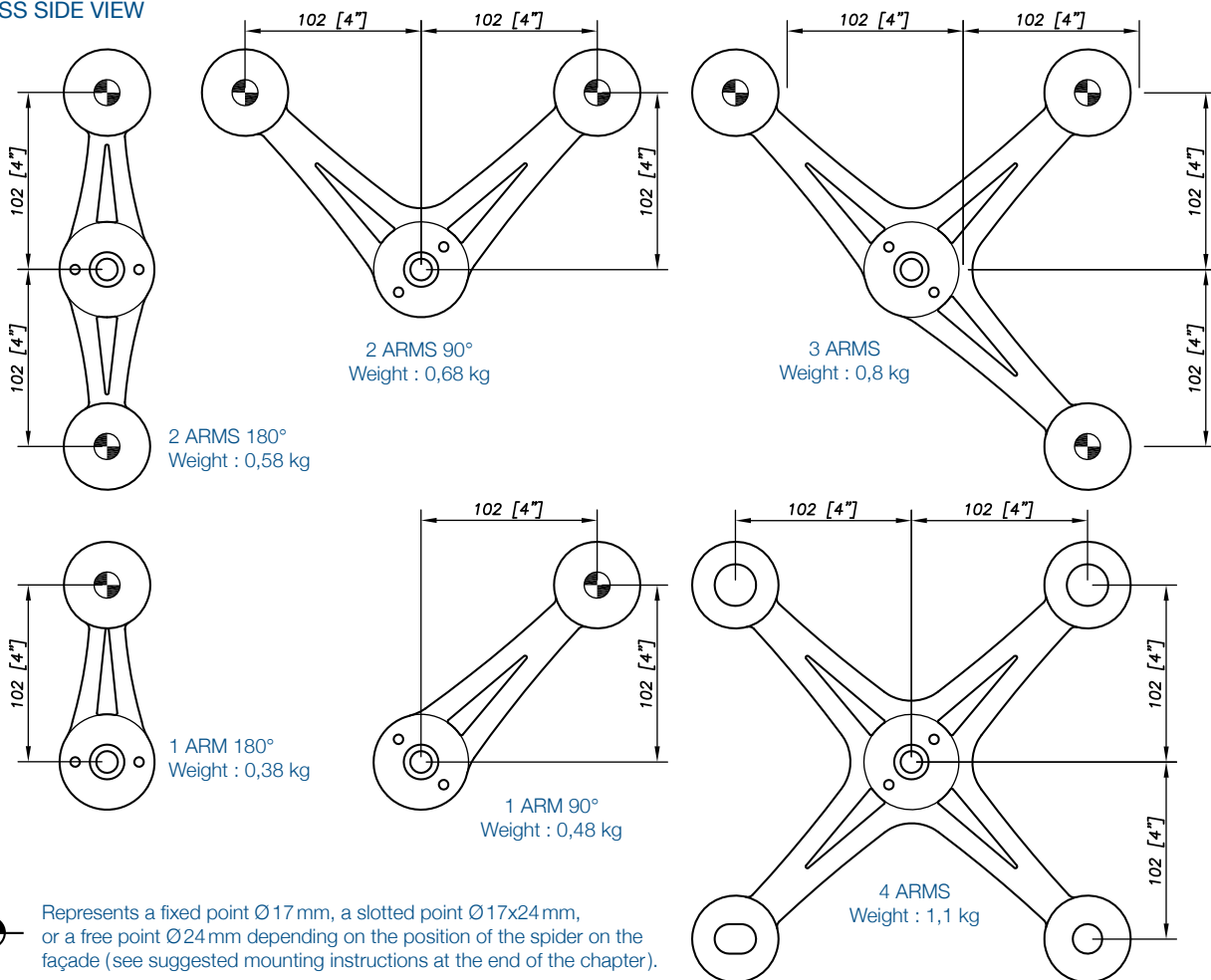


LOAD PERPENDICULAR TO GLASS PER ARM		
1 mm (SLS*)	182 daN (409 lb)	
2 mm	-	
Rp0,1 (ULS**)	198 daN (445 lb)	
Rp0,2	-	

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS – Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



## Suggested mounting instruction

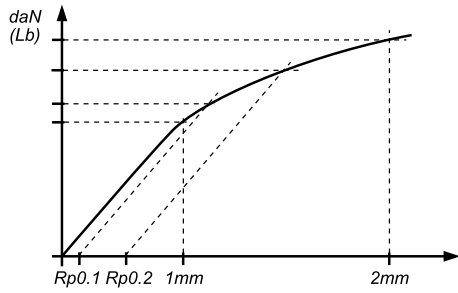
The drilling diameter for the pins is 6 mm. Do not drill the holes for the pins in your structure before mounting the spiders. To fix the spider on your structure the "Omega" (see accessories) is highly recommended to adjust the spider's position. The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply).

This bolt shall not be fitted into a vertical slotted holes due to the risk of slipping (under the weight), the pins are not designed to hold any permanent loads (cf. specification sheet). The spider has to be positioned on a flat support. The slotted holes Ø17x24 mm and free holes Ø24 mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV) ; other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.



## Mechanical performances



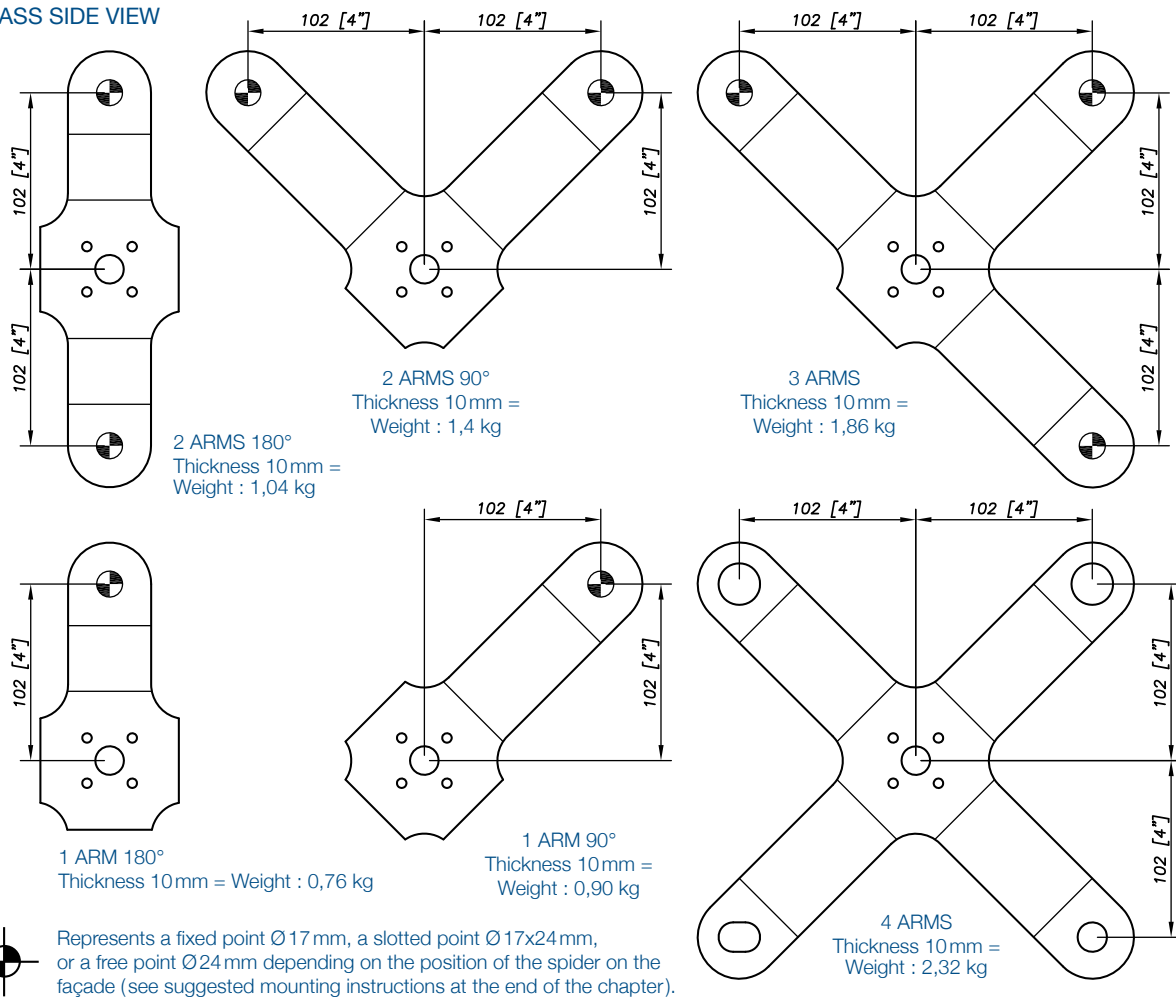
LOAD PARALLEL TO GLASS PER ARM	
1 mm (SLS*)	1077 daN (2421 lb)
2 mm	-
Rp0,1 (ULS**)	820 daN (1843 lb)
Rp0,2	-

LOAD PERPENDICULAR TO GLASS PER ARM	
1 mm (SLS*)	85 daN (191 lb)
2 mm	-
Rp0,1 (ULS**)	136 daN (305 lb)
Rp0,2	-

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS – Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



## Suggested mounting instruction

The drilling diameter for the pins is 6 mm. Do not drill the holes for the pins in your structure before mounting the spiders. To fix the spider on your structure the "Omega" (see accessories) is highly recommended to adjust the spider's position. The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply).

This bolt shall not be fitted into a vertical slotted holes due to the risk of slipping (under the weight), the pins are not designed to hold any permanent loads (cf. specification sheet). The spider has to be positioned on a flat support. The slotted holes Ø17x24 mm and free holes Ø24 mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV) ; other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.



# S 3000 AX

Designation : casted stainless steel spider



Material : AISI 316  
Finish : polished GR400



## Descriptif



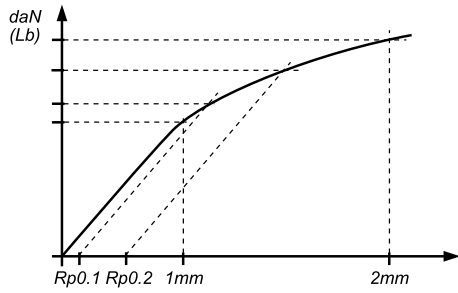
The S3000 AX spider has been specially designed for the integration of solar shading on the transparent glass facades in order to preserve natural lighting while cutting glare or reflection of radiation from the sun.

### Advantages sunscreens

- natural light preserved with visibility on the outside
- Optimal use of natural light and passive solar energy, resulting in a reduced need for heating and consequently saves energy
- Possibility of articulate the solar shading: This allows the slats of venetian blinds in the optimal position relative to the sun and also contributes to an even greater power efficiency
- The transparency of a glass facade is kept
- Controlling the entry of light into the building
- Integration of photovoltaic panel as possible
- Possibility of including silkscreen glass in order to make shadow areas and make attractive facades



## Mechanical performances



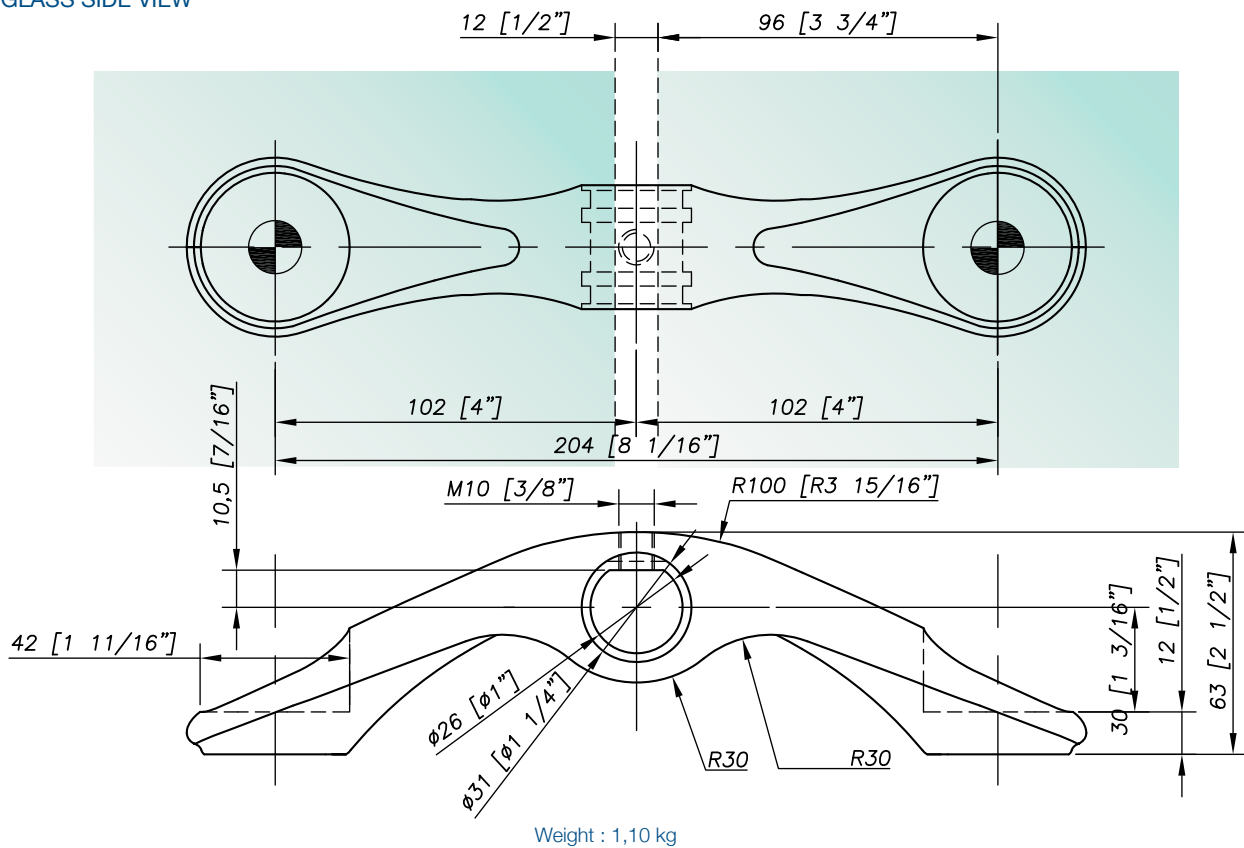
LOAD PARALLEL TO GLASS PER ARM		
1 mm (SLS*)	434 daN (975 lb)	
2mm	-	
Rp0,1 (ULS**)	398 daN (894 lb)	
Rp0,2	-	

LOAD PERPENDICULAR TO GLASS PER ARM		
1 mm (SLS*)	397 daN (892 lb)	
2mm	670 daN (1506 lb)	
Rp0,1 (ULS**)	524 daN (1177 lb)	
Rp0,2	606 daN (1362 lb)	

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS - Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



Represents a fixed point  $\varnothing 17$  mm, a slotted point  $\varnothing 17 \times 24$  mm, or a free point  $\varnothing 24$  mm depending on the position of the spider on the façade (see suggested mounting instructions at the end of the chapter).

## Suggested mounting instruction

Fit 2 seal rings with inner diameter  $\varnothing$  of 24,6mm torus of  $\varnothing 3,6$ mm (allowing the absorption of mounting kits) in the 2 groove of spider S3000AX. Inserting the fastener in a  $\varnothing 25$  axis having a flat anti-rotation (see the design of axis section). And mount the locking screw M10 flat end (DIN913) 12mm length.

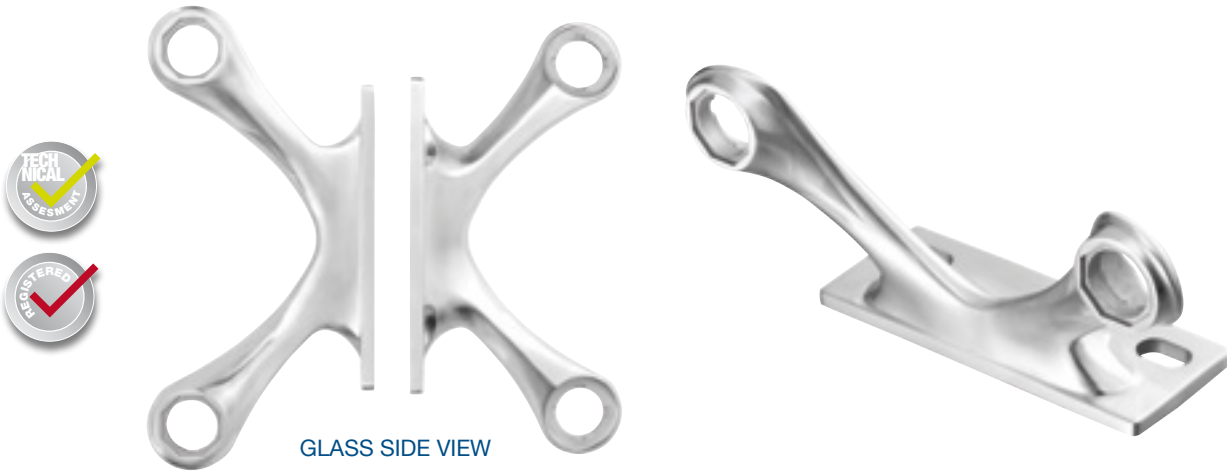
The slotted holes  $\varnothing 17 \times 24$  mm and free holes  $\varnothing 24$  mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 / M12 fittings (FXR, FXV).

Maintenance recommendations - see end of catalog.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3100 / S 3100 DU

Designation : casted stainless steel spider, with plate.

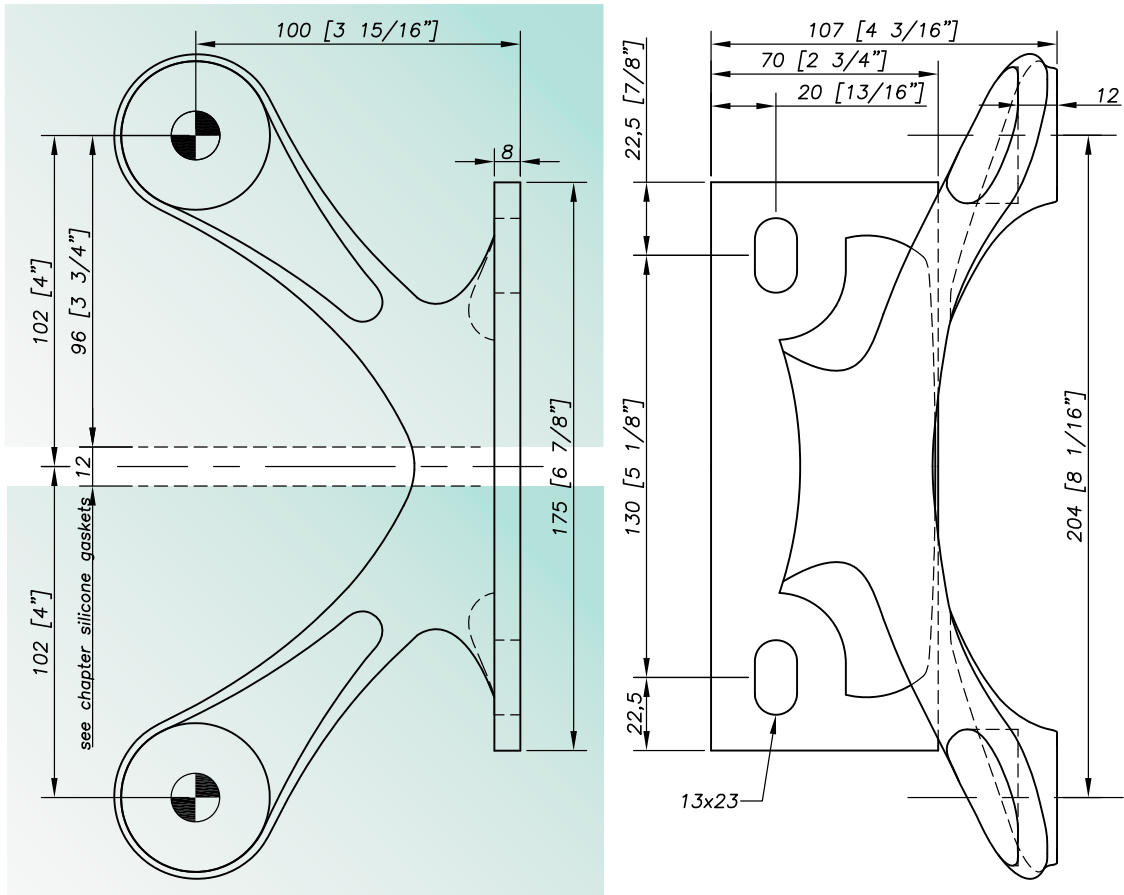


GLASS SIDE VIEW

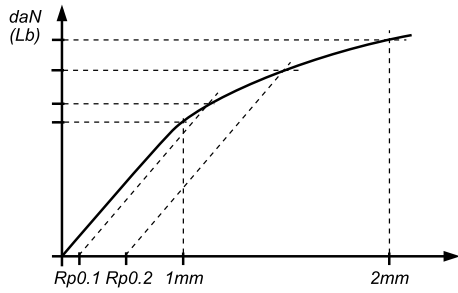
S3100 Monti : AISI 316 - Surface finish : Dull polished GR400  
 S3100 DU : Stainless steel Duplex Uranus 45N

## Dimensions

GLASS SIDE VIEW



## Mechanical performances



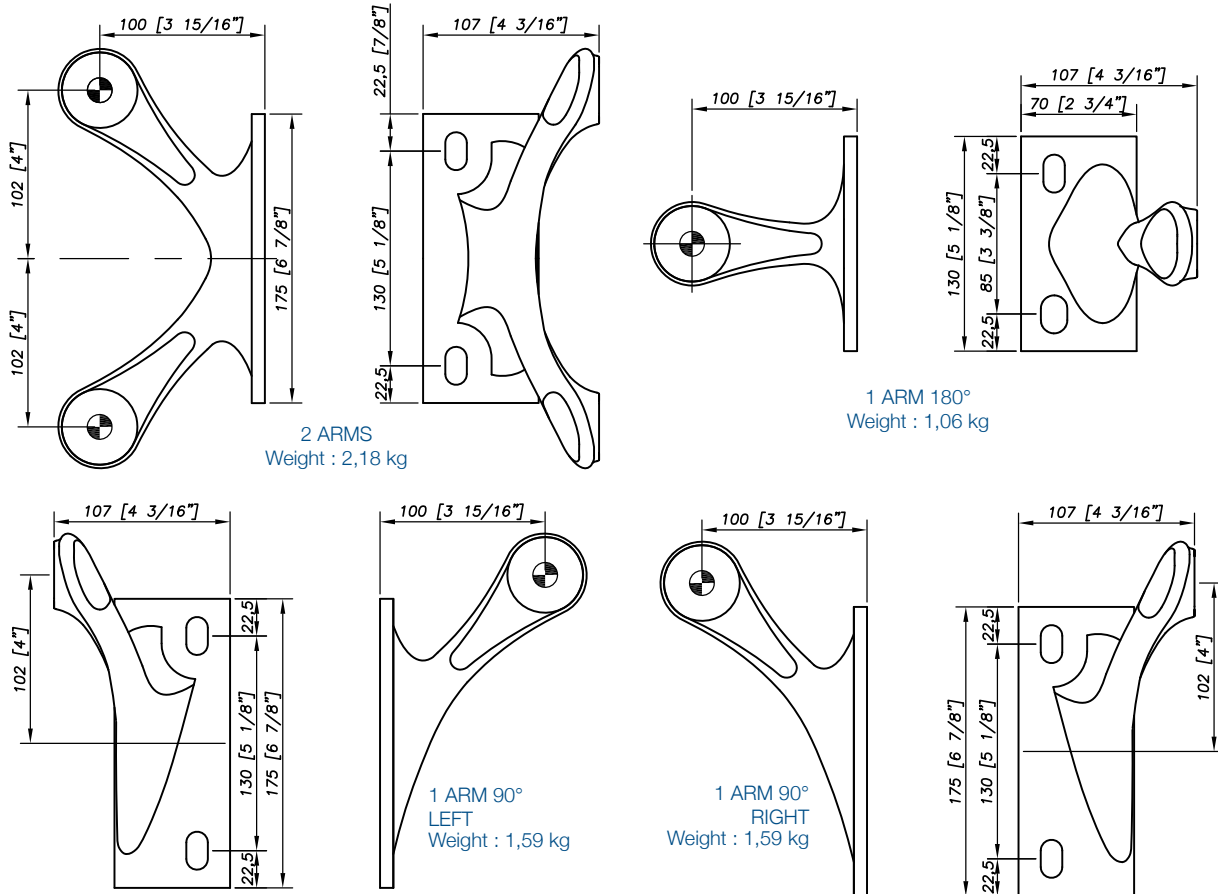
S 3100	LOAD PARALLEL TO GLASS PER ARM
	1 mm (SLS*) 542 daN (1218 lb)
	2 mm -
	Rp0,1 (ULS**) 410 daN (921 lb)
	Rp0,2 -

S 3100	LOAD PERPENDICULAR TO GLASS PER ARM
	1 mm (SLS*) 195 daN (438 lb)
	2 mm -
	Rp0,1 (ULS**) 184 daN (413 lb)
	Rp0,2 -

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS - Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



Represents a fixed point Ø17 mm, a slotted point Ø17x24 mm, or a free point Ø24 mm depending on the position of the spider on the façade (see suggested mounting instructions at the end of the chapter).

## Suggested mounting instruction

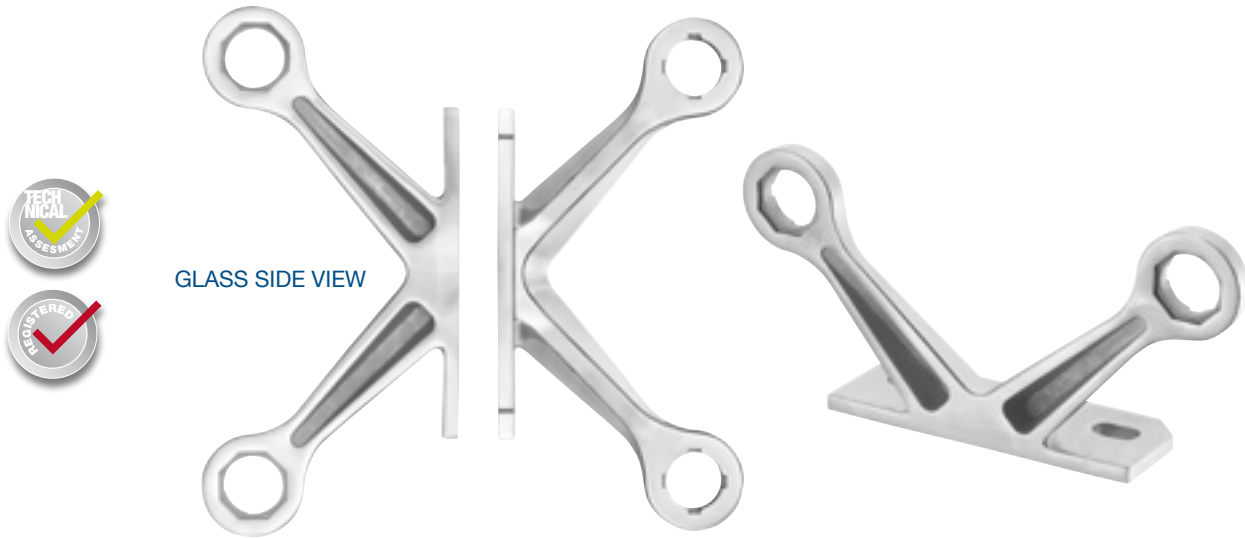
The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply). The slotted holes Ø17 x 24 mm and free holes Ø24 mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure.

The spiders are standardized for M14 fittings (FXR, FXV). Other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3101 EVO

Designation : casted stainless steel spider, with plate

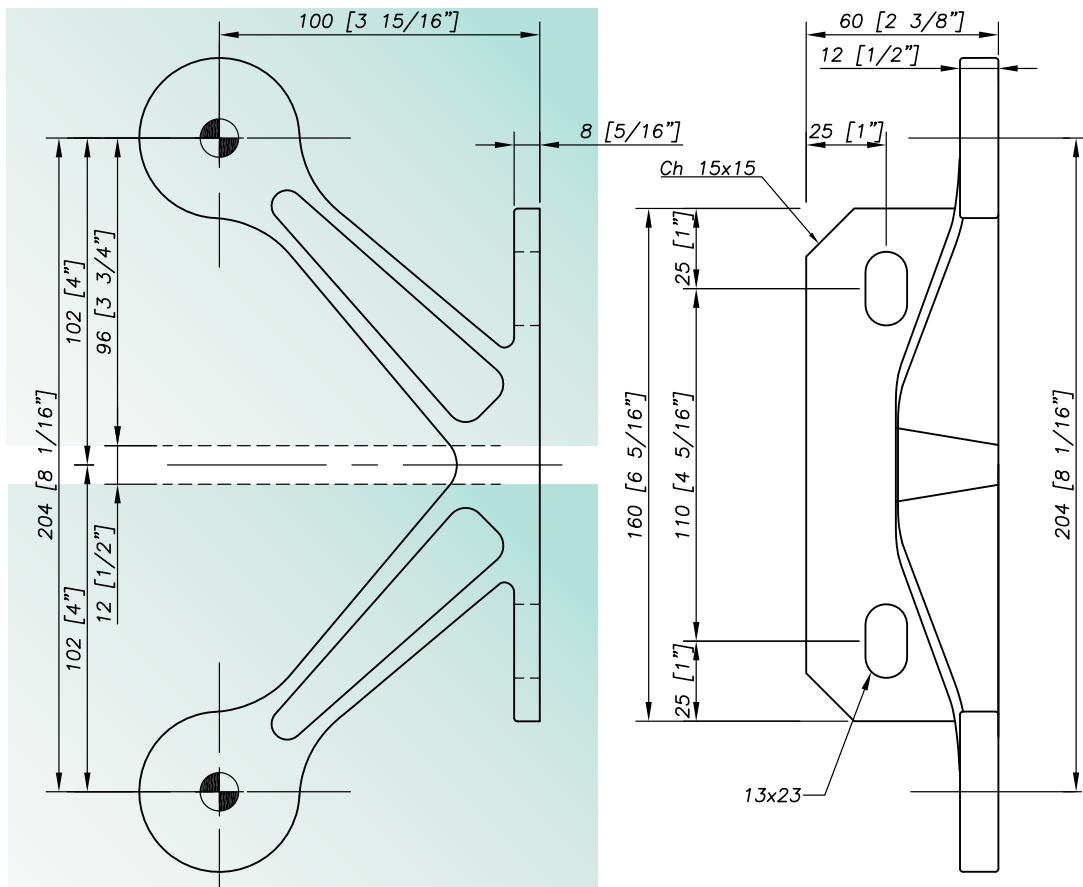


GLASS SIDE VIEW

Material : AISI 316 – Surface finish : dull polished GR400 - Other finishes available on request

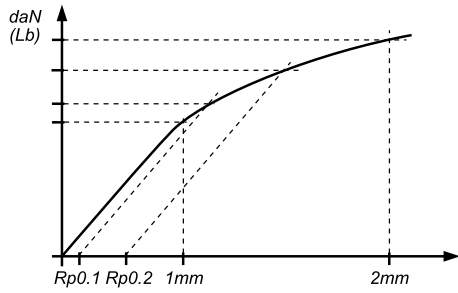
## Dimensions

GLASS SIDE VIEW





## Mechanical performances



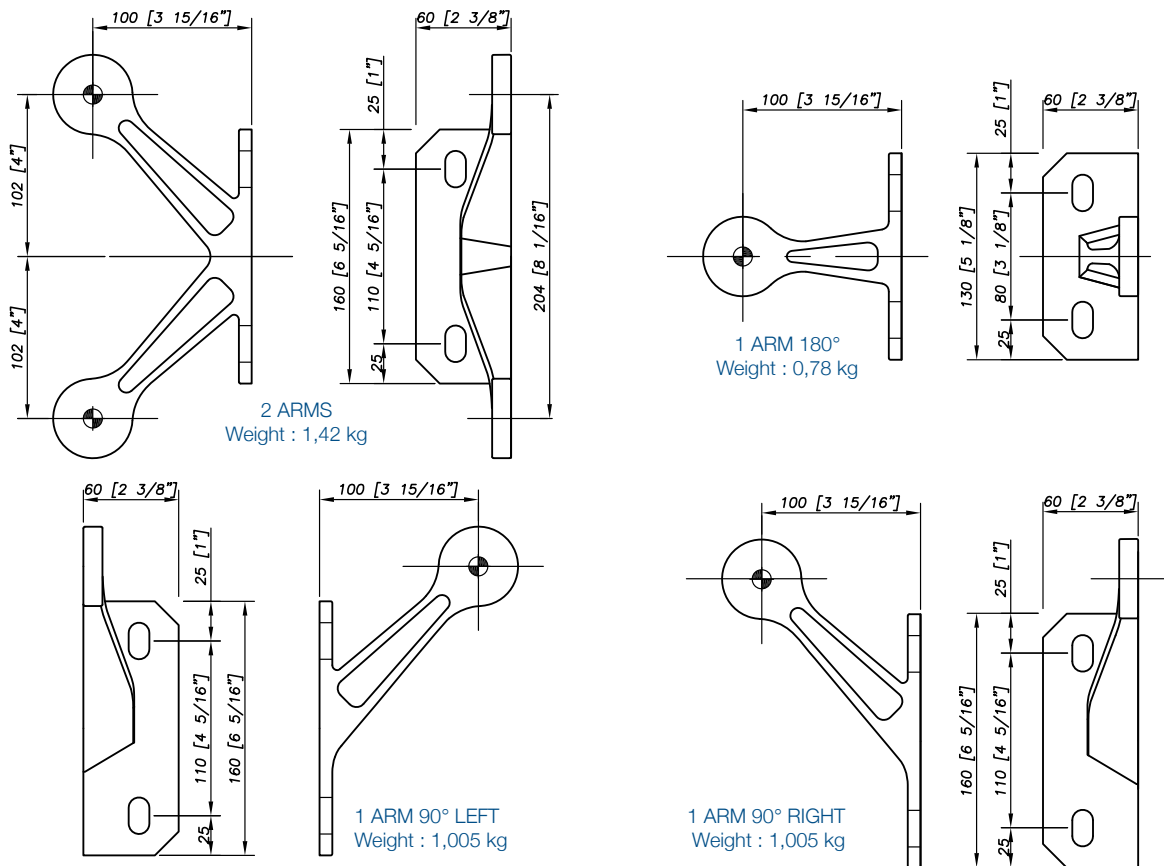
LOAD PARALLEL TO GLASS PER ARM	
1 mm (SLS*)	506 daN (1137 lb)
2 mm	761 daN (1710 lb)
Rp0,1 (ULS**)	491 daN (1103 lb)
Rp0,2	587 daN (1319 lb)

LOAD PERPENDICULAR TO GLASS PER ARM	
1 mm (SLS*)	132 daN (296 lb)
2 mm	291 daN (654 lb)
Rp0,1 (ULS**)	424 daN (953 lb)
Rp0,2	472 daN (1061 lb)

\*SLS : Serviceability Limit State - load at 1 mm deformation \*\*ULS - Ultimate Limit State : load at the elastic limit (Rp0.1). Values are given without factor of safety - Tests available online : [www.sadev.com](http://www.sadev.com)

## Configuration

### GLASS SIDE VIEW



Represents a fixed point Ø17 mm, a slotted point Ø17x24mm, or a free point Ø24mm depending on the position of the spider on the façade (see suggested mounting instructions at the end of the chapter).

## Suggested mounting instruction

The fixing of the spider is done with a M16 or a M12 bolt (out of Sadev supply). The slotted holes Ø17 x 24mm and free holes Ø24mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV). Other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# S 3106

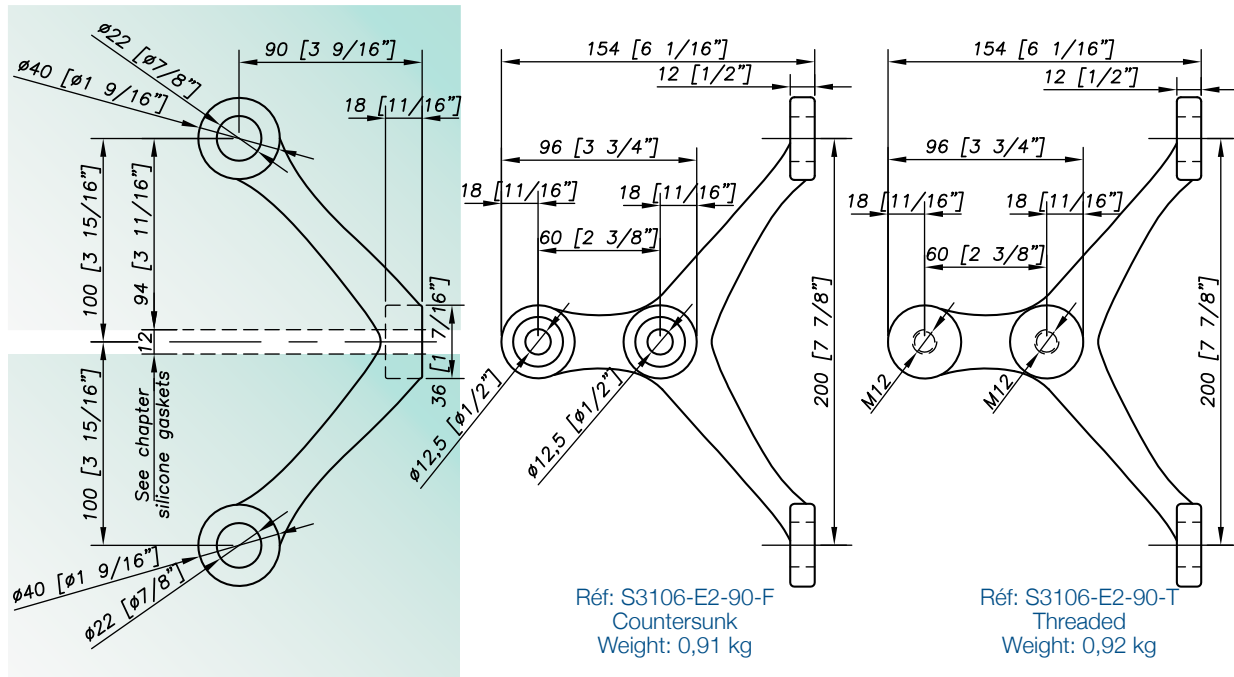
Designation: Casted stainless steel spider, with plate



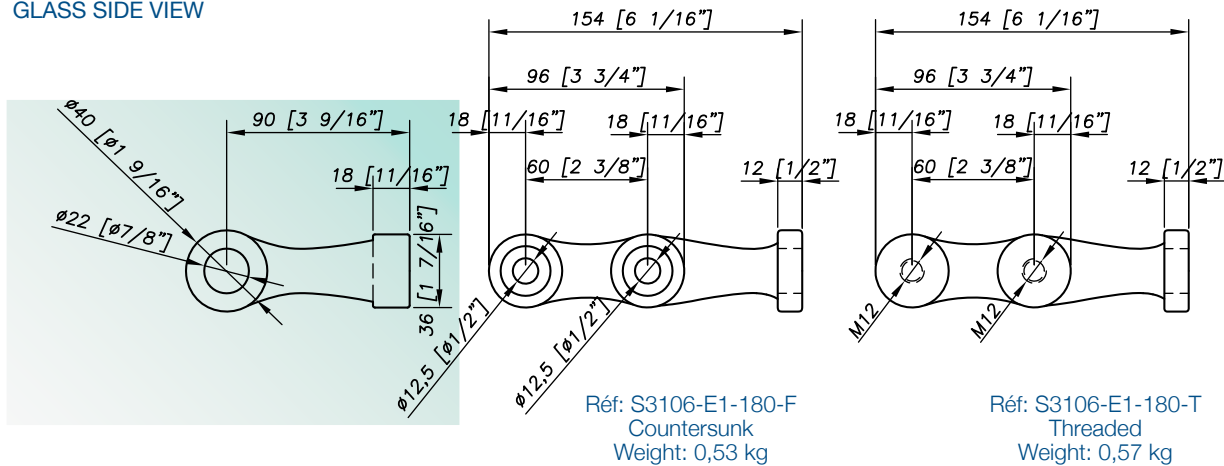
Material: AISI 316 (1.4408) – Surface finish: Dull polished GR400

## Dimensions

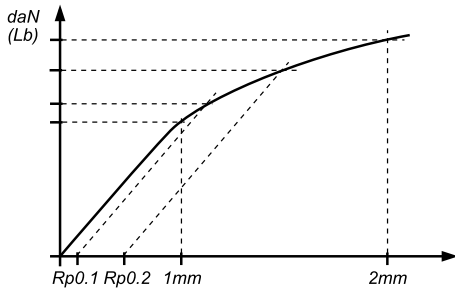
### GLASS SIDE VIEW



### GLASS SIDE VIEW



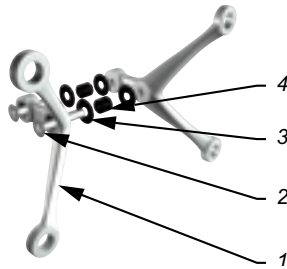
## Mechanical performances



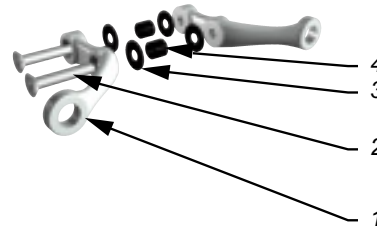
S3106	LOAD PARALLEL TO GLASS PER ARM THEORETICAL CALCULATION	S3106	LOAD PERPENDICULAR TO GLASS PER ARM THEORETICAL CALCULATION
	ULS : 100 daN / 124lb		ULS : 100 daN / 124 lb
	SLS equivalent : deformation <1mm (by 66 daN / 148 lb)		SLS equivalent : deformation <1mm (by 66 daN / 148 lb)

\*SLS – Serviceability Limit State : load at 1mm deformation \*\*ULS – Ultimate Limit State : load at the elastic limit (Rp0.1)  
Values are given without factor of safety.

## Configurations

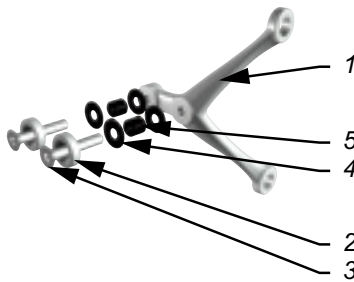


Réf: K3106-V-2B-2B  
Weight: 1,93 kg

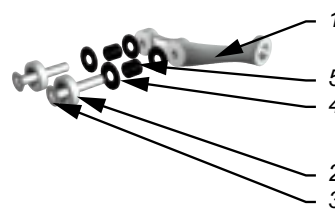


Réf: K3106-V-1B-1B  
Weight: 1,2 kg

MARK	QTY	DESIGNATION	MATERIAL
1	1+1	Spider S3106	AISI 316 - surface finish: dull polished GR400
2	2	Bolt DIN7991 M12	A4
3	4	Contact Washer	Polyacetal / polyethylene
4	2	Glass hole grommet	Polyacetal / polyethylene



Réf: K3106-V-2B  
Weight: 1,17 kg



Réf: K3106-V-1B  
Weight: 0,8 kg

MARK	QTY	DESIGNATION	MATERIAL
1	1	Spider S3106	AISI 316 - surface finish: dull polished GR400
2	2	Backing plate flange countersunk hole	AISI 316L - surface finish: dull polished GR400
3	2	Bolt DIN7991 M12	A4
4	4	Contact Washer	Polyacetal/ polyethylene
5	2	Glass hole grommet	Polyacetal / polyethylene

## Suggested mounting instruction

The fixing of the spider occurs with two countersunk screws DIN7991 M12 (available on request). These spiders have no positioning insert (fixed point, dilating and free point). The holes of dilatation Ø22 in the spiders are not to be used to adjust the spiders! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure.

# S 3105

Designation : casted stainless steel spider, with plate.

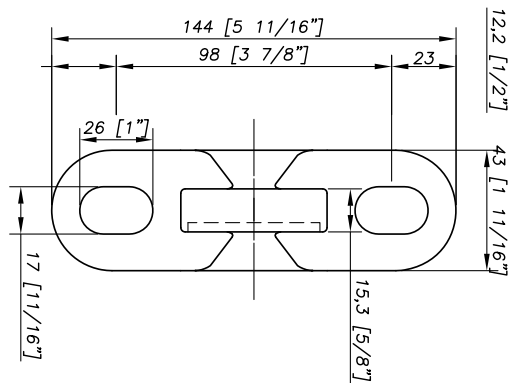
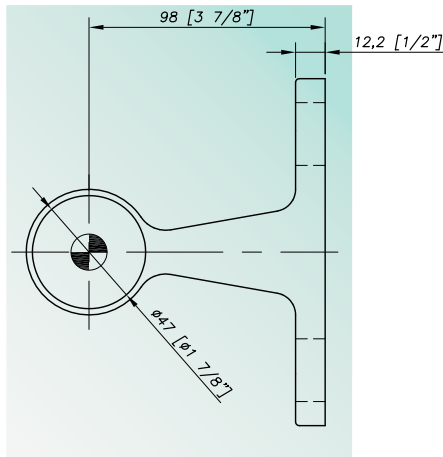


GLASS SIDE VIEW

Material : AISI 316  
Finish : polished GR400

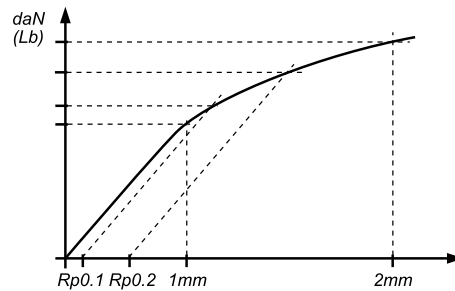
## Dimensions

GLASS SIDE VIEW



## Mechanical performances

LOAD PARALLEL TO GLASS PER ARM	LOAD PARALLEL TO GLASS PER ARM	
		1 mm (SLS*)
	2 mm	1298 daN (2918 lb)
	Rp0,1 (ULS**)	772 daN (1735 lb)
	Rp0,2	945 daN (2124 lb)
LOAD PERPENDICULAR TO GLASS PER ARM	LOAD PERPENDICULAR TO GLASS PER ARM	
		1 mm (SLS*)
	2 mm	903 daN (2030 lb)
	Rp0,1 (ULS**)	820 daN (1843 lb)
	Rp0,2	968 daN (2176 lb)



\*SLS : Serviceability Limit State - load at 1 mm deformation  
\*\*ULS - Ultimate Limit State : load at the elastic limit (Rp0.1).  
Values are given without factor of safety.

## Suggested mounting instruction

The fixing of the spider is done with a M16 bolt (out of Sadev supply). The slotted holes  $\varnothing 17 \times 24$  mm and free holes  $\varnothing 24$  mm in the spider are not to be used to adjust the spider! They are needed to absorb the manufacturing tolerances and the thermal deformation of the glass and of the structure. The spiders are standardized for M14 fittings (FXR, FXV). Other diameters are available on request.

SADEV recommends using thread locking compound, except in case of specific mounting constraints.

# Stainless steel spacer

Designation : **casted stainless steel spider, with plate.**

The spacer is compulsory in order to allow the free displacement of the fitting towards the spider.  
One spacer per spider's arm (or per fitting) are needed.



DESIGNATION	DIAMETER OF THE FITTING	REFERENCE
Spacer for S3000, S3000 DU, S3001 EVO, S3101 EVO, S3100, S3100 DU, S3003, S3105 thickness 12	M12	ENT-12-16.5-12.5
Spacer for S3003 thickness 8	M12	ENT-12-16.5-8.5
Spacer for S3003 thickness 10	M12	ENT-12-16.5-10.5
Spacer for S3003 thickness 15	M12	ENT-12-16.5-15.5
Spacer for S3002, S3007	M12	ENT-12-16.5-21.5
Spacer for S3000, S3000 DU, S3001 EVO, S3101 EVO, S3100, S3100 DU, S3003, S3105 thickness 12	M14	ENT-14-16.5-12.5
Spacer for S3003 thickness 8	M14	ENT-14-16.5-8.5
Spacer for S3003 thickness 10	M14	ENT-14-16.5-10.5
Spacer for S3003 thickness 15	M14	ENT-14-16.5-15.5
Spacer for S3002, S3007	M14	ENT-14-16.5-21.5
Spacer for S3000, S3000 DU, S3001 EVO, S3101 EVO, S3100, S3100 DU, S3003, S3105 thickness 12	M16	ENT-16-18.5-12.5
Spacer for S3003 thickness 8	M16	ENT-16-18.5-8.5
Spacer for S3003 thickness 10	M16	ENT-16-18.5-10.5
Spacer for S3003 thickness 15	M16	ENT-16-18.5-15.5
Spacer for S3002, S3007	M16	ENT-16-18.5-21.5

## Stainless steel elastic pin

The pin is compulsory in order to lock the spider in rotation towards the structure. Two pins per spider are needed +5 %.

DESIGNATION	REFERENCE
Pin for S3000, S3001 EVO, S3003	D1481A2-6-36
Pin for S3007	D1481A2-6-60
Pin for S3002	D1481A2-6-45



## Special drill for stainless steel

Special drill for stainless steel. Diameter 6mm.


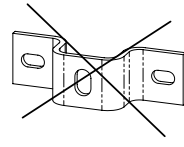
Reference : 09 90 01 60





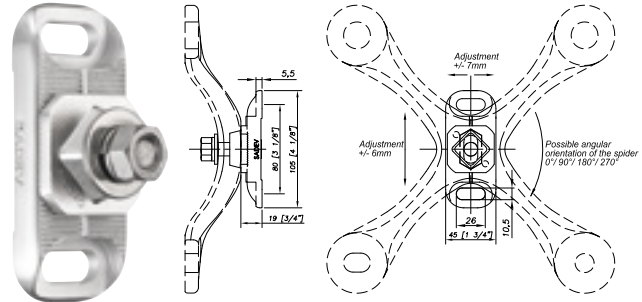
# Cone Omega

Designation : cone omega for vertical mounting

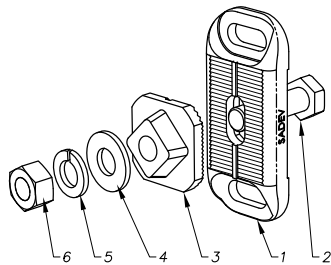
	<p><b>SETTING (1)</b> Adjustment of +/- 5 mm horizontally and vertically</p>		<p>Vertical use compulsory</p>
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REFERENCE	
S3000-OMEGA-R	AISI 316 Stainless steel model for S3006 Vertech spider

Patented model n° 0905034




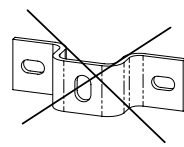
## Fastenings kit for cone omega



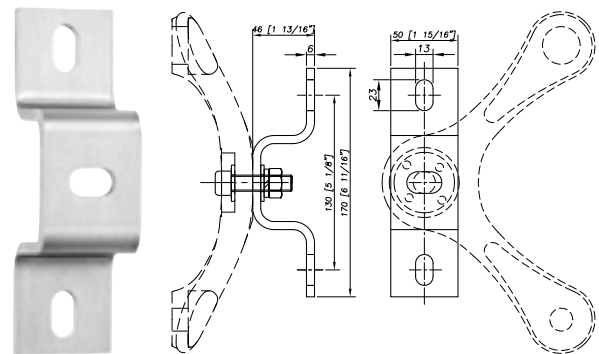
MODEL FOR S3000 SPIDERS	
KIT-OM-VIS-S3000	
1 – Omega	4 – Washer M12
2 – Bolt H M12	5 – Washer grower
3 – Anti-rotation plate	6 - Nut M12

# Bended Omega

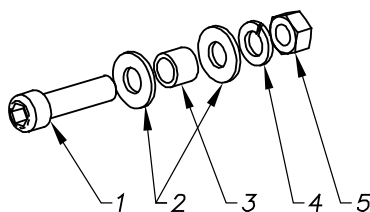
Designation : bended omega for vertical mounting

	<p><b>SETTING (1)</b> Adjustment of +/- 5 mm horizontally and vertically</p>		<p>Vertical use compulsory</p>
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REFERENCE FOR SPIDERS S3000, S3001, S3003, S3007	
OMEGA-IN12V	AISI 316L Stainless steel model dull polished Painted
OMEGA-IN12V-R	AISI 316L Stainless steel model with your needed RAL-colour




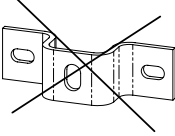
## Fastenings kit for bended omega



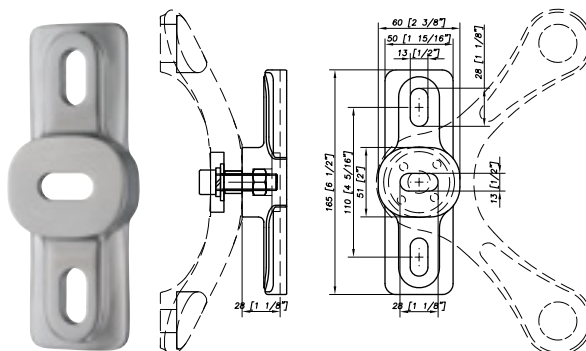
MODEL FOR S3000 SPIDERS	KIT FOR S3001, S3003 AND S3007 SPIDERS
KIT-OM-VIS-S3000	KIT-OM-VIS-S300137
1 – M12 bolt	1 – M12 bolt
2 – Washer for M12	2 – Washer for M12
3 – Insert (S3000 only)	4 – grower washer
4 – Grower washer	5 – M12 nut
5 – M12 nut	

# Tube Omega

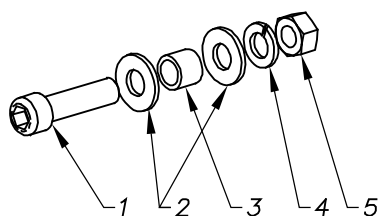
Designation : Omega for fixation on tube Ø70 at 120 mm

	<p><b>SETTING (1)</b> Adjustment of +/- 5 mm horizontally and vertically</p>		<p>Vertical use compulsory</p>
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REFERENCE	
OMEGA-TUB-IN12V	Omega for fixation for S3000, S3001 EVO, S3003, S3007




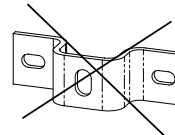
## Fastenings kit for tube omega



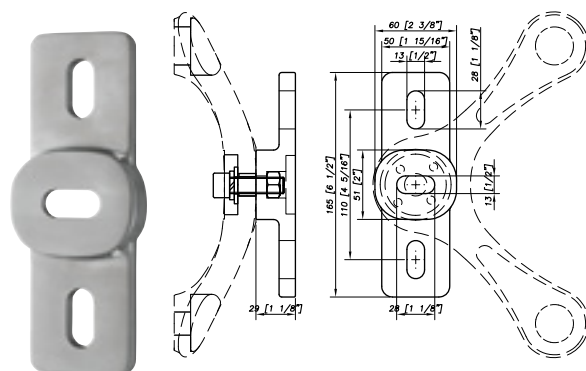
MODEL FOR 3000 SPIDERS	KIT FOR S 3001 EVO, S3003 AND S3007 SPIDERS
KIT-OM-TUB-VIS-S3000	KIT-OM-TUB-VIS-S3001
1 – M12 bolt 2 – Washer for M12 3 – Insert (S3000 only) 4 – Grower washer 5 – M12 nut	1 – M12 bolt 2 – Washer for M12 4 – grower washer 5 – M12 nut

# Flat Omega

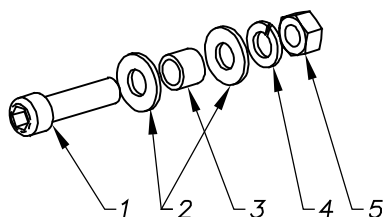
Designation : Omega for fixation on flat support

	<p><b>SETTING (1)</b> Adjustment of +/- 5 mm horizontally and vertically</p>		<p>Vertical use compulsory</p>
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REFERENCE	
OMEGA - PLA-IN 12V	Omega for fixation for S3000, S3001 EVO, S3003, S3007



## Fastenings kit for flat omega

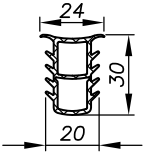
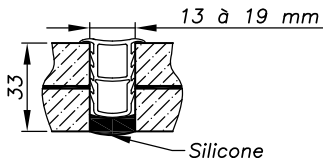
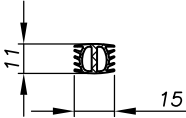
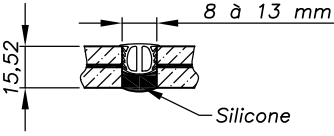
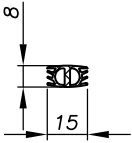
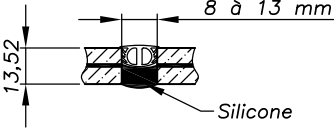
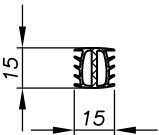
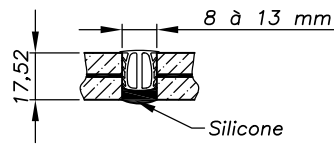
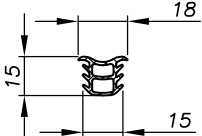
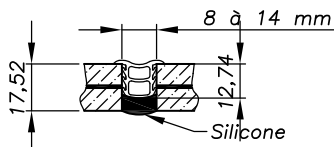
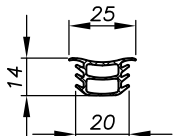
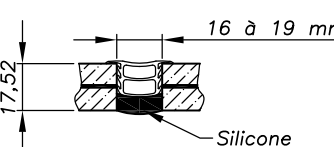
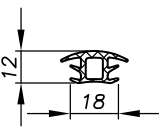
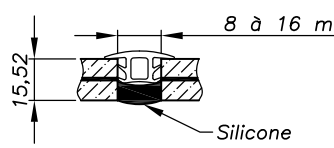
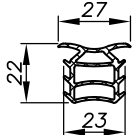
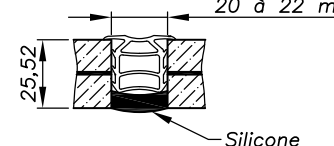
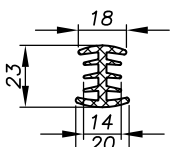
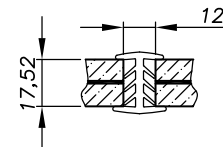
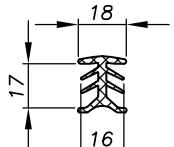
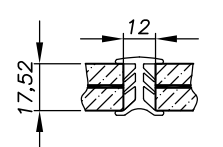


MODEL FOR S3000 SPIDERS	KIT FOR S 3001 EVO, S3003 AND S3007 SPIDERS
KIT-OM-VIS-S3000	KIT-OM-VIS-S300137
1 – M12 bolt 2 – Washer for M12 3 – Insert (S3000 only) 4 – Grower washer 5 – M12 nut	1 – M12 bolt 2 – Washer for M12 4 – grower washer 5 – M12 nut

# Sealing strip

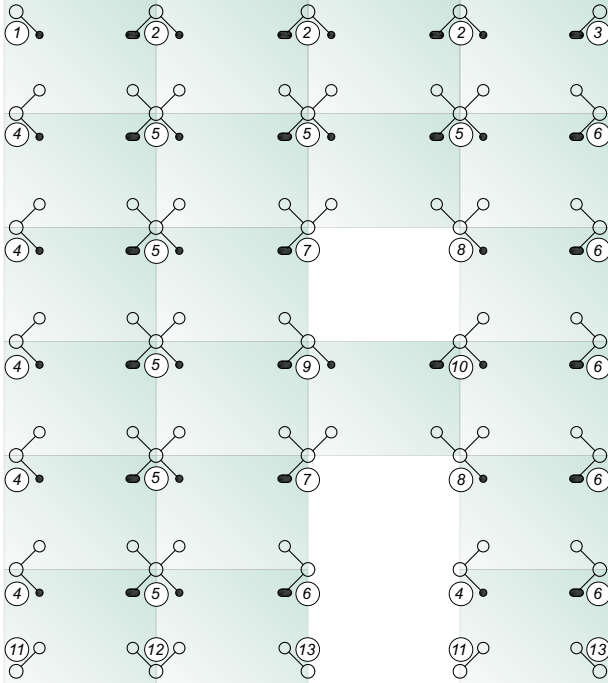
DIMENSION	SETTLEMENT PATTERN	REFERENCES
<p>mini:35 maxi:105 11</p>	<p>15 à 30 mm 15 30 10 à 15 mm</p>	<p>White translucent color Black color</p> <p>JOINT-VEA1015D JOINT-VEA1015D-N</p>
<p>mini:35 maxi:85 15</p>	<p>15 à 30 mm 15 30 10 à 30 mm</p>	<p>White translucent color Black color</p> <p>JOINT-VEA2030D JOINT-VEA2030D-N</p>
<p>mini:15 maxi:65 50 11</p>	<p>10 à 15 mm</p>	<p>White translucent color Black color</p> <p>JOINT-VEA1015S JOINT-VEA1015S-N</p>
<p>mini:15 maxi:65 50 22</p>	<p>25 30 mm</p>	<p>White translucent color Black color</p> <p>JOINT-VEA2030S JOINT-VEA2030S-N</p>
<p>12 14</p>	<p>8 à 12 mm 25,52 Silicone</p>	<p>White translucent color Black color</p> <p>JOINT-VEA4110 JOINT-VEA4110-N</p>
<p>17 14 7</p>	<p>8 à 12 mm 13,52 Silicone</p>	<p>White translucent color Black color</p> <p>JOINT-VEA4235 JOINT-VEA4235-N</p>
<p>mini:30 maxi:60 15</p>	<p>10 à 15 mm</p>	<p>White translucent color Black color</p> <p>JOINT-VEA4244 JOINT-VEA4244-N</p>
<p>78 35 26 18</p>	<p>17,52 24,5 7,52</p>	<p>White translucent color Black color</p> <p>JOINT-VEA3347B JOINT-VEA3347B-N</p>
<p>58 35 26 18</p>	<p>17,52 24,5 7,52</p>	<p>White translucent color Black color</p> <p>JOINT-VEA4347C JOINT-VEA4347C-N</p>
<p>52 35 26 19</p>	<p>17,52 24,5 7,52</p>	<p>White translucent color Black color</p> <p>JOINT-VEA3414 JOINT-VEA3414-N</p>

Sealing strip

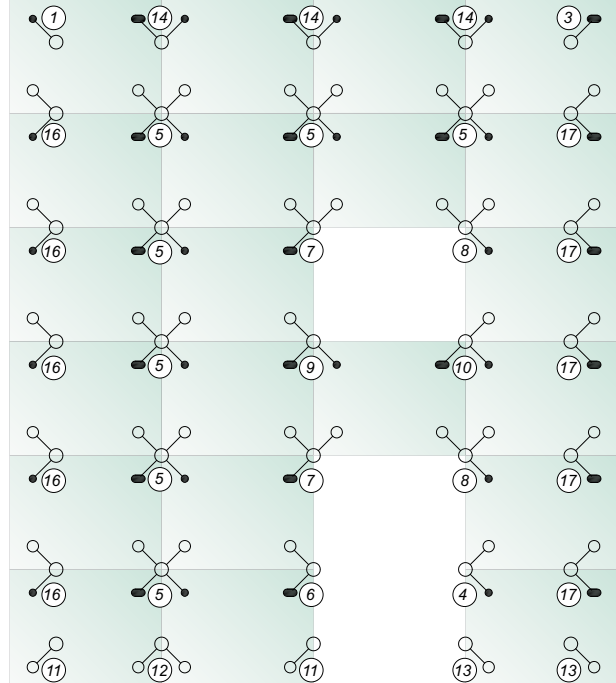
DIMENSION	SETTLEMENT PATTERN	REFERENCES
		<p>White translucent color Black color</p> <p>JOINT-VEA1312A JOINT-VEA1312A-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1324 JOINT-VEA1324-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1368 JOINT-VEA1368-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1369 JOINT-VEA1369-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1399 JOINT-VEA1399-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1444 JOINT-VEA1444-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1684 JOINT-VEA1684-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA1746 JOINT-VEA1746-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA3346 JOINT-VEA3346-N</p>
		<p>White translucent color Black color</p> <p>JOINT-VEA3413 JOINT-VEA3413-N</p>

# Suggested mounting instruction

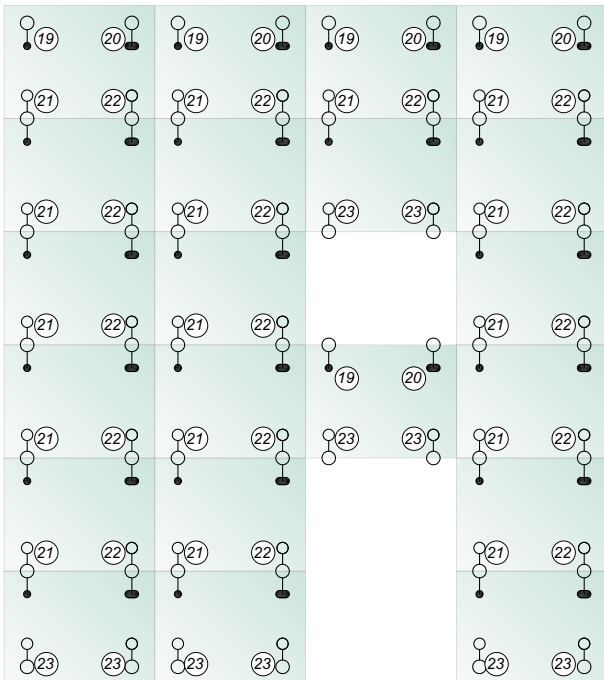
Mounting - A



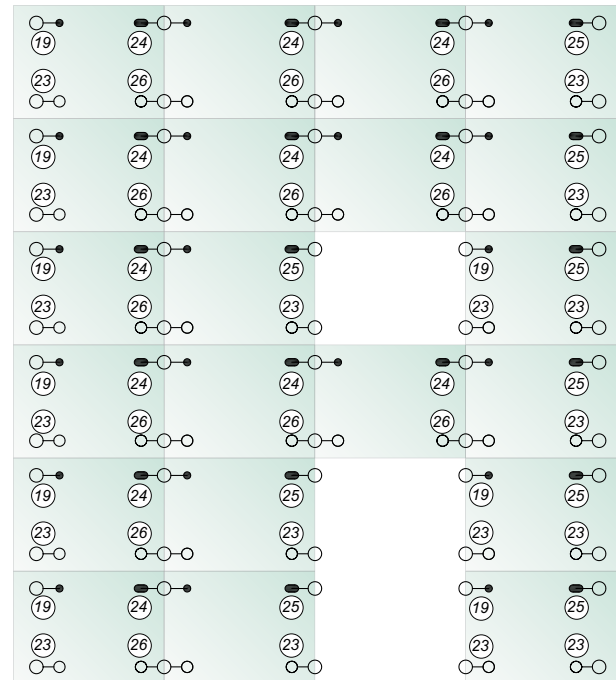
Mounting - B



Mounting - C

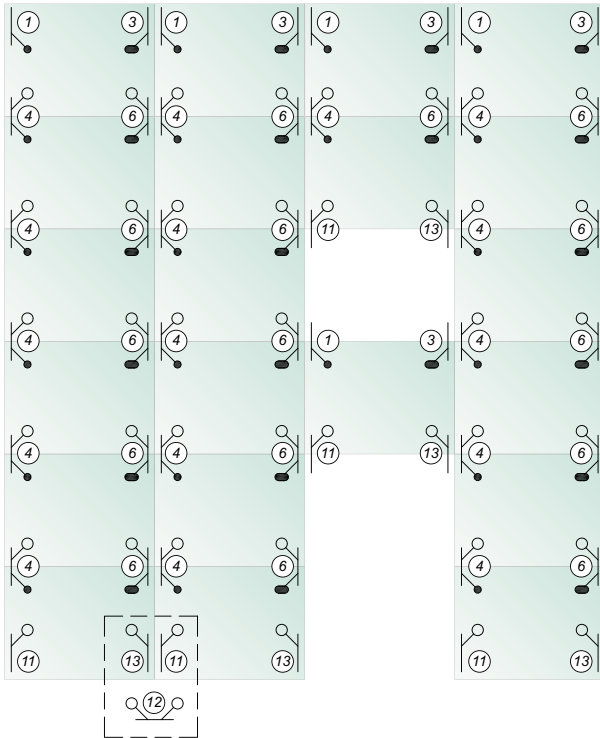


Mounting - D

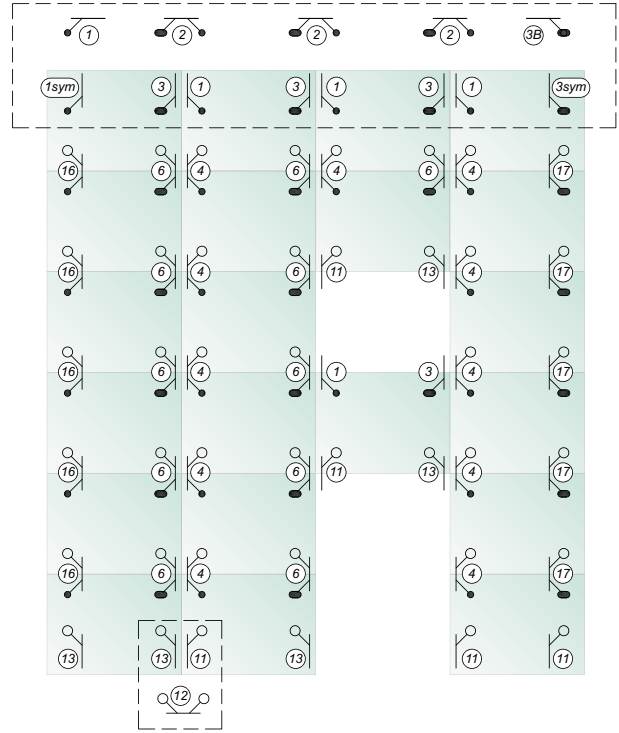


Suggested mounting instruction

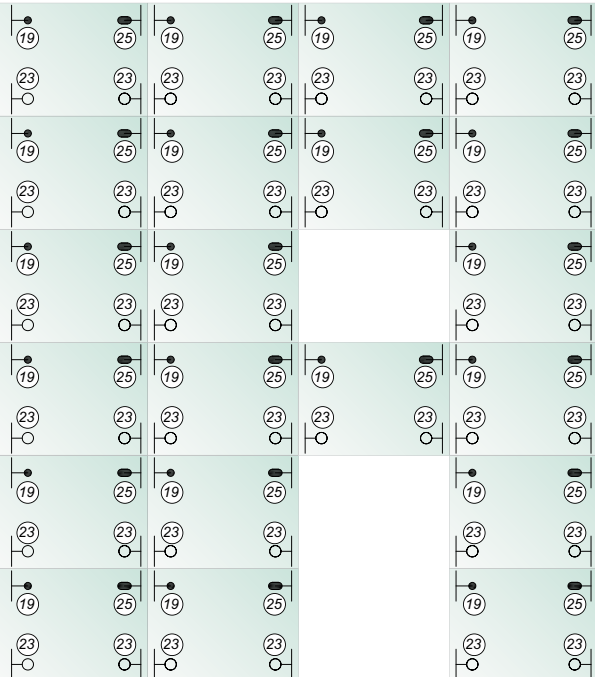
Mounting - E



Mounting - F



Mounting - G



Mounting - H

