

Uniclass	EPIC
L4181:P4	D181:X4
CI/SfB	
(31.59)	Xh

architectural hardware for glass
®Sadev structural fittings

®Sadev Monti Spider System

Design Concept: "Why do we need another system of spider supports for glass walls? I was pleased to accept the assignment from @Sadev to add my expertise in structural glazing to such an important project. The goal was to produce a spider in cast stainless steel that could withstand the increased stresses of wind and weight that are now necessary for the oversized panes of glass demanded by Architects in the construction of 21st century buildings. We wanted to produce a new spider that

while being aesthetically pleasing was strong enough to be used with the most advanced designs allowing for maximum horizontal and vertical loads. It needed to have a lightweight stylish design. Using the most advanced FEM computer analysis and working constantly with prototypes allowed us to achieve these goals. Reassuringly the newly designed spider is not only strong, but is the most aesthetically pleasing spider to view, and therefore we have accomplished all Sadev's requirements." "Firmitas et Venustas" – Cesare Monti, Architect.

material

Stainless Steel AISI 316 grade

finish

Matt Brushed

permissible loads

Parallel to glass: 2952N per arm

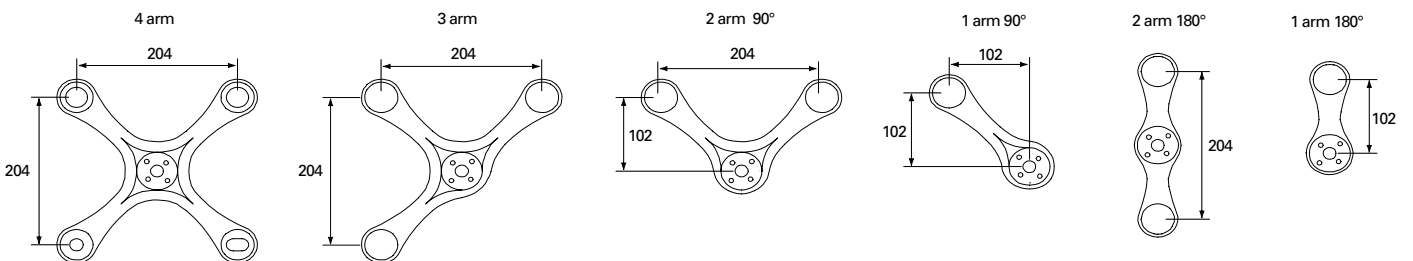
Perpendicular to glass: 1669N per arm

The spiders are supplied with anti-rotating pins.

Clipped inserts are available with either 17mm ø hole. 24mm ø hole or 17 x 24mm slot. Please specify when ordering.

S3000 Standard Spider Fittings

- | | |
|--------------------------|-------------------|
| 4 arm Spider | 2 arm Spider 180° |
| (3 arm to special order) | 1 arm Spider 90° |
| 2 arm Spider 90° | 1 arm Spider 180° |



S3100 - Monti Side Fixing Spider Fittings

2 arm Spider 90°

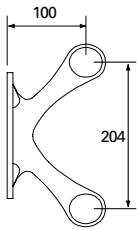
1 arm Spider 90° left hand

1 arm Spider 90° right hand

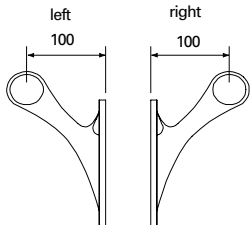
1 arm Spider 180°

If fixing to glass fins then stainless steel mounting plates and through bolts can be supplied to special order

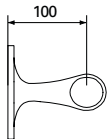
2 arm 90°



1 arm 90°



1 arm 180°



All dimensions in mm



**Series Monti
Fin Bracket
1 arm**

Supplied complete with Monti cap nuts and fixed bolts. FXV2001 to suit glass thickness 12mm to 17.52mm

**Series Monti
Fin Bracket
2 arm**

Supplied complete with Monti cap nuts and fixed bolts. FXV2001 to suit glass thickness 12mm to 17.52mm

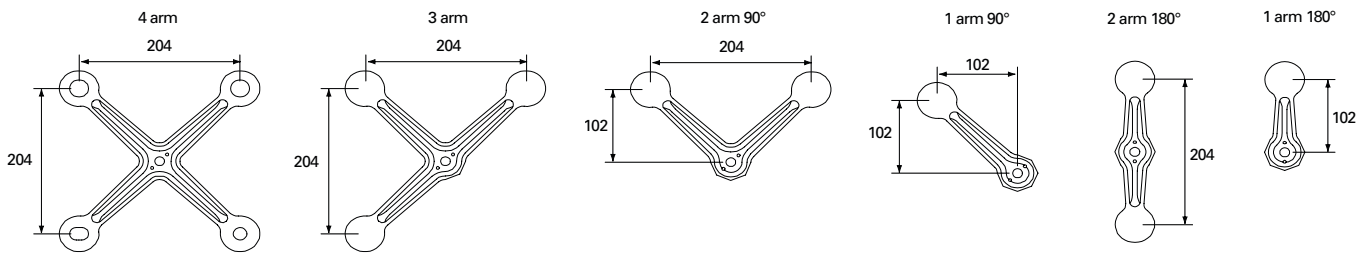
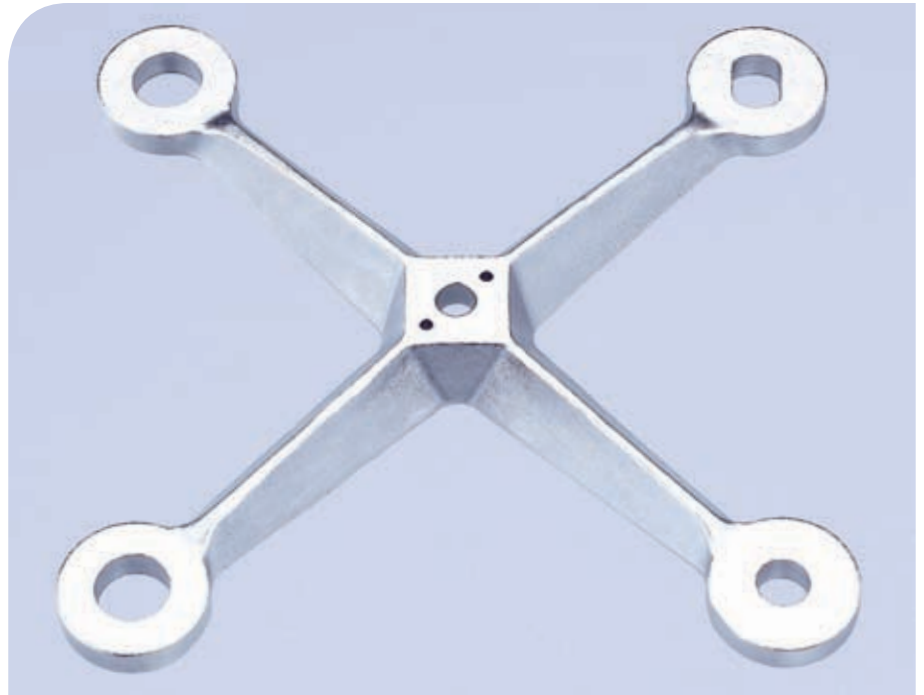


S3001 Standard Spider Fittings

- 4 arm Spider
- (3 arm to special order)
- 2 arm Spider 90°
- 2 arm Spider 180°
- 1 arm Spider 90°
- 1 arm Spider 180°

material:
Stainless steel
AISI 316 grade

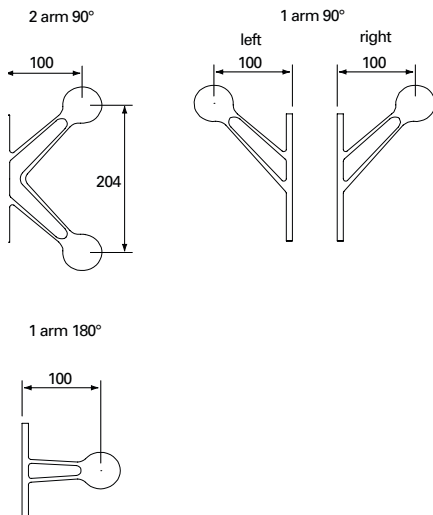
finish:
Electropolished



S3101 Standard Side Fixing Spider Fittings

- 2 arm Spider 90°
- 1 arm Spider 90° left hand
- 1 arm Spider 90° right hand
- 1 arm Spider 180°

If fixing to glass fins then stainless steel mounting plates and through bolts can be supplied to special order



Bolts

In this brochure we detail the most popular models and sizes of bolts that we hold in stock. However, other [®]Sadev products are available to order from Barrier Components Limited. For details of the full range of [®]Sadev fittings then please refer to their web-site www.sadev.com.

Fixed Bolts

All bolts are supplied with stainless steel nuts except FXV 2002



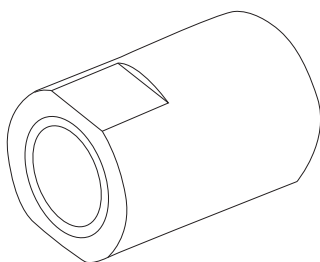
Articulated Bolts

All bolts are supplied with stainless steel nuts



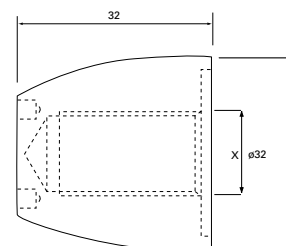
EBIN-X-30-20 Cap Nut

Standard model
Stainless Steel.



EBIN-X-32-32 Monti Cap Nut

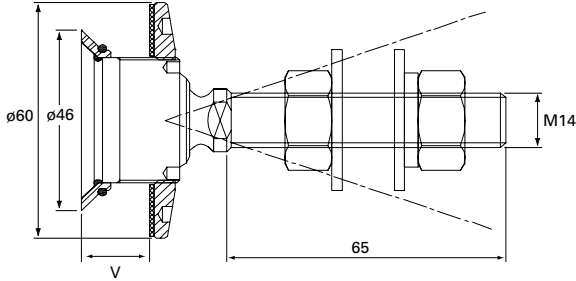
To compliment S3000/
S3100 Spider Fittings
Stainless Steel.



**Articulated Bolt
FXR 1001**

stock sizes
Glass thickness:
Up to 12mm
12mm to 17.52mm
17.52mm to 21.52mm

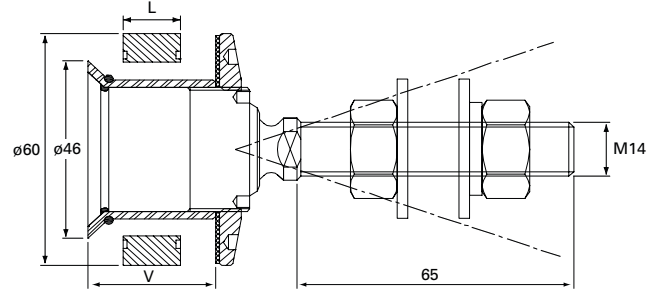
This bolt tightens from the rear of the glass and requires a 36mm ϕ hole countersunk to 46mm ϕ .



**Articulated Bolt
FXR 1001A**

stock size
Glass thickness:
Up to 21.52mm

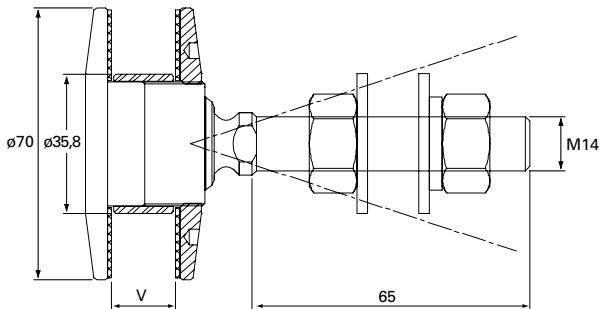
This bolt tightens from the rear of the glass, is suitable for double glazed units and requires a 36mm ϕ hole countersunk to 46mm ϕ .



**Articulated Bolt
FXR 1003**

stock sizes
Glass thickness:
Up to 12mm
12mm to 17.52mm
17.52mm to 21.52mm

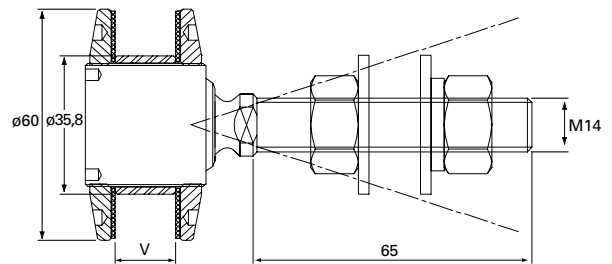
This bolt tightens from the rear of the glass, is suitable for use with canopies and requires a 36mm ϕ hole.



**Articulated Bolt
FXR 1006**

stock size
Glass thickness
17.52mm to 21.52mm

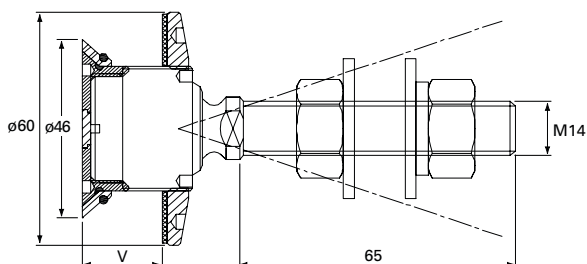
This bolt tightens from the front and rear of the glass, is suitable for use with canopies and requires a 36mm ϕ hole.



**Articulated Bolt
FXR 1008**

stock size
Glass thickness
17.52mm to 19.52mm

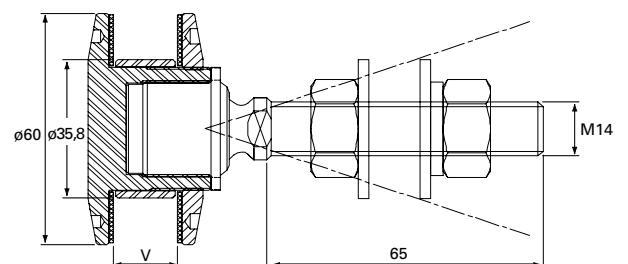
This bolt tightens from the front and rear of the glass, is suitable for use with canopies and requires a 36mm ϕ hole countersunk to 46mm ϕ .



**Articulated Bolt
FXR 1039**

stock size
Glass thickness
12mm to 17.52mm

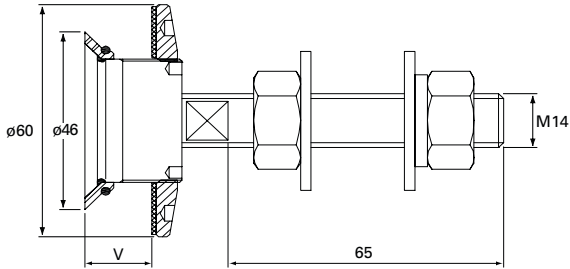
This bolt tightens from the rear of the glass, fixes to the inner leaf of a double glazed unit and requires a 36mm ϕ hole. (This fitting replaces the FXR1007A).



**Fixed Bolt
FXV 2001**

stock size
Glass thickness:
Up to 12mm

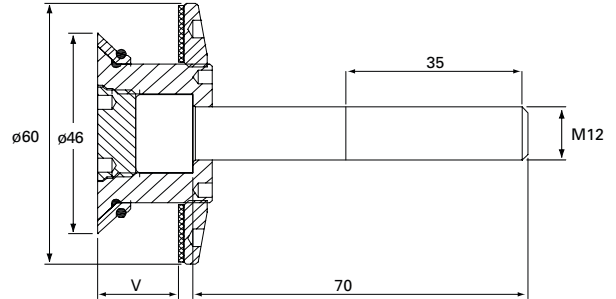
This bolt tightens from the rear of the glass and requires a 36mm ϕ hole countersunk to 46mm ϕ .



**Fixed Bolt
FXV 2002**

stock size
Glass thickness:
12mm to 17.52mm

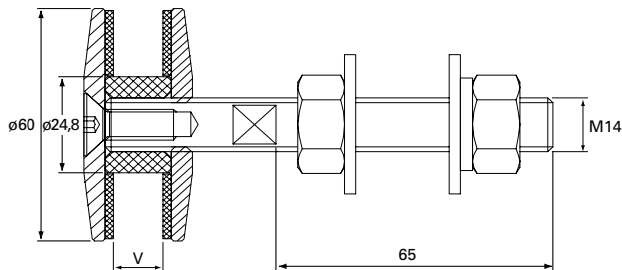
Nuts not supplied.
This bolt tightens from the front and rear of the glass, is suitable for use with canopies and requires a 36mm diameter hole countersunk to 46mm diameter.



**Fixed Bolt
FXV 2003**

stock sizes
Glass thickness:
12mm
17.52mm
21.52mm
25.52mm

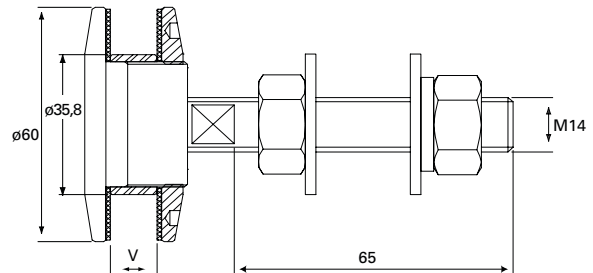
This bolt tightens from the front of the glass and requires a 25mm ϕ hole.



**Fixed Bolt
FXV 2005**

stock sizes
Glass thickness:
Up to 12mm
12mm to 17.52mm

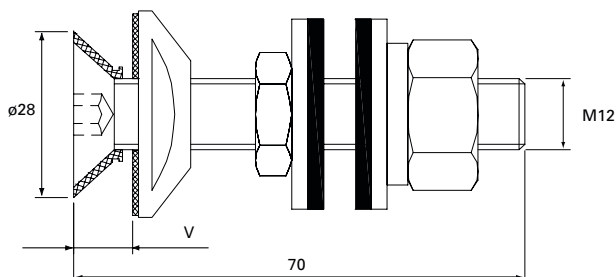
This bolt tightens from the rear of the glass and requires a 36mm ϕ hole. Suitable for use with the 'Sadev Marquise' canopy system.



**Fixed Bolt
FXV 2006**

stock size
Glass thickness:
Up to 25.52mm

This bolt tightens from the front and rear of the glass, is suitable for internal applications such as balustrading and requires a 16mm ϕ hole countersunk to 29mm ϕ .



note

We do not offer a full design package including structural calculations and design indemnity. In such cases we recommend that advice is obtained from a suitably qualified structural engineer.

It is expressly understood that any technical advice furnished by us with reference to the use of goods is given without charge and we assume no obligation or liability for the advice given or results obtained, all such advice being given and accepted at your own risk.

It is the responsibility of the designer or installer to ensure that the products used are fit for purpose. All goods are sold under our standard terms and conditions.

All dimensions in mm.

Barrier Components Ltd
Unit 8, Dolphin Point
Dolphin Way, Purfleet
Essex RM19 1NR

Tel 01708 891 515

Fax 01708 891 516

sales@barrier-components.co.uk

www.barrier-components.co.uk



Glass and Glazing Federation

