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.

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**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.
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

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

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**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 ø hole countersunk to 46mm ø.

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 ø 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 ø hole countersunk to 46mm ø.

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 ø hole.

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 ø hole countersunk to 46mm ø.

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 ø hole. (This fitting replaces the FXR1007A).
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.