

Fixed bolt, countersunk head • Ref: V 2001 > Page 2.03



Fixed bolt, countersunk head, • for installation from the outside Ref: V 2002



Fixed bolt, cylindrical head, ●—for installation from the outside
Ref: V 2003
> Page 2.07



Fixed bolt, cylindrical head, ●—for installation from the outside
Ref: V 2004
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Fixed bolt, cylindrical head ● Ref: V 2005 > Page 2.11



Fixed bolt, countersunk head ● Ref: V 2006 > Page 2.13



Fixed bolt, cylindrical head, Ø 50 mm ← Ref: V 2105 > Page 2.15

FIXED BOLTS

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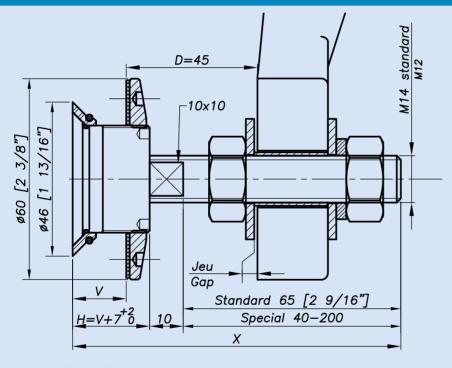
Designation: fixed bolt, countersunk head.

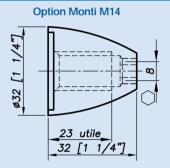


Typical application:			
Mounting Alternate product			
Vertical façade	Yes		
Roof/canopy	Possible	R1003 - R1005	
Guard rail	Possible	V2003 - see SADEV Decor	
*Blind access	No	R1008 - R1006	
Sloped glazing	Yes		

^{*}Installation from the outside (no access to the structure).

Dimensions:





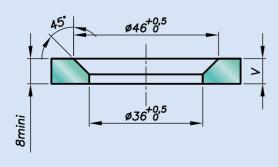
Option 3025 M14

[1 3/16"] 20 25 [1"

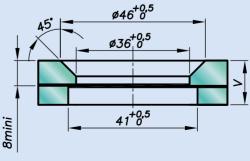
H validated by SADEV depending on availability.

Glass drilling:

Monolithic glass

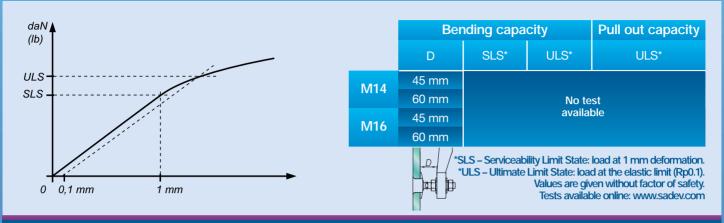


Laminated glass V = 1st glass + intercalated films + 2nd glass



Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	Body	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Thread axle	A4
3	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
4	1	Contact Washer	White polyacetal / white polyethylene
5	1	Glass Nut Ø 60	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Nut DIN 934	A4
7	2	Washer	A4
8	1	Lock Washer DIN127	A4
9	1	Nut DIN 934	A4
10	1	3025 Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3
11	1	Monti Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

Insert parts No. 1/2 and 3 into the glass.

Mount contact washer No. 4 and glass nut No. 5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using SADEV tools ref. 758-11-60 and ref. CLE-DYN-072031.

Mount nut No. 6 and washer No. 7.

Insert the thread axle into the support with spacer E (available on request), see technical page. Adjust the depth. Mount washer No.7, lock washer No. 8, and nut No. 9. Tighten to 60 Nm (45 ft-lb) using a 22 mm wrench.

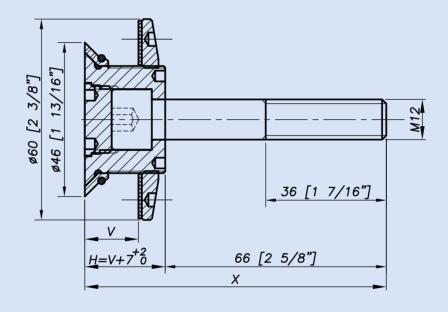
Designation: fixed bolt, countersunk head, for installation from the outside.



Typical application:			
Mounting		Alternate product	
Vertical facade	Yes		
Roof/canopy	No	V2005	
Guard rail	Possible	see SADEV Decor	
*Blind access	Yes		
Sloped glazing	Yes		

^{*}Installation from the outside (no access to the structure).

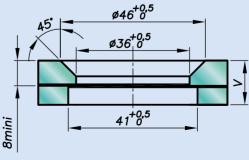
Dimensions:



H validated by SADEV depending on availability.

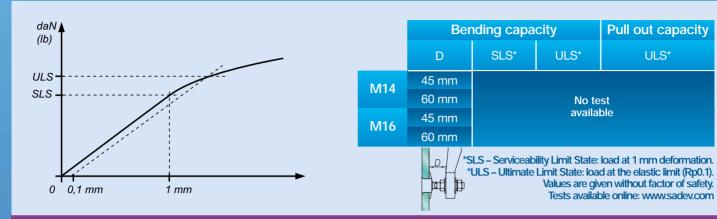
Glass drilling:

Laminated glass V = 1st glass + intercalated films + 2nd glass

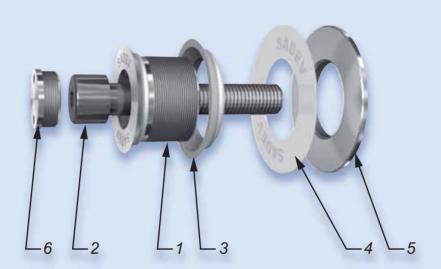


Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	Body	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Bolt DIN912 M12-70	A4
3	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
4	1	Contact Washer	White polyacetal / white polyethylene
5	1	Glass Nut Ø 60	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Cover Cap	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

Insert parts No. 1 and 3 into the glass hole.

Mount contact washer No. 4 and glass nut No. 5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using SADEV tools ref. 758-11-60 and ref. CLE-DYN-072031. Mount into the support with bolt No. 2, tighten in function of the support with a 10 mm hex key. Mount cover cap No. 6 using SADEV tool ref. 758-11-60.

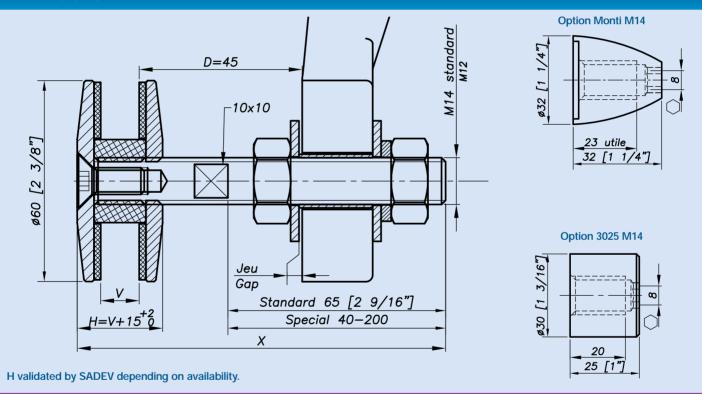
Designation: fixed bolt, cylindrical head, for installation from the outside.



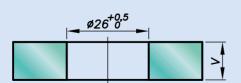
Typical application:			
	Alternate product		
Yes			
Possible	V2005		
Yes	see SADEV Decor		
Yes			
Yes			
	Yes Possible Yes Yes		

^{*}Installation from the outside (no access to the structure).

Dimensions:

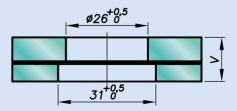


Glass drilling:



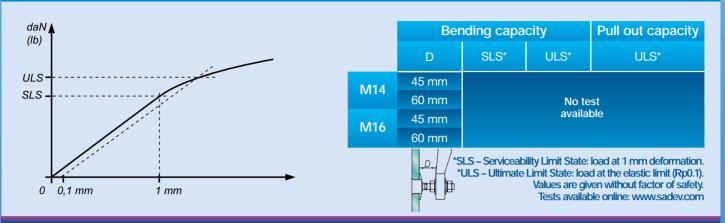
Monolithic glass

Laminated glass V = 1st glass + intercalated films + 2nd glass

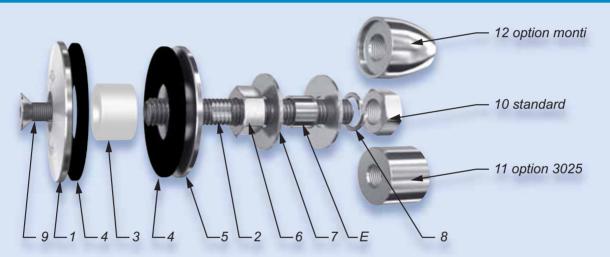


Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	External Plate	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Thread axle	A4
3	1	Spacer Ø 25	Polyacetal
4	2	Contact Washer	EPDM
5	1	Glass Nut Ø 60	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Nut DIN 934	A4
7	2	Washer	A4
8	1	Lock Washer DIN127	A4
9	1	Bolt DIN7991 M8x20	A4
10	1	Nut DIN 934	A4
11	1	3025 Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3
12	1	Monti Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

A - Classic mounting

Insert parts No. 2/3/4/5 into the glass hole. Mount the second contact washer No. 4, external plate No. 1, and bolt No. 9 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass. Thread on nut No. 6 and apply washer No. 7.

Insert the threaded axle into the support with spacer E (available on request), see technical page. Adjust the depth. Mount the second washer No. 7, lock washer No. 8, and nut No. 10. Tighten to 60 Nm (45 ft-lb) using a 22 mm wrench.

B – Blind mounting: installation from the outside (no access to the structure)

Mount nut No. 6 and washer No. 7 onto parts No. 2/3/4/5. Insert the threaded axle into the support with spacer E (available on request), see technical page. Adjust the depth. Mount the second washer No. 7, lock washer No. 8, and nut No. 10. Tighten to 60 Nm (45 ft-lb) using a 22 mm wrench. Set the glass onto the assembly, be careful not to put unprotected glass edges in contact with bare metal parts. Mount parts No. 1/4 and 9 onto parts No. 2/3/4/5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using a 10 mm wrench and a 5 mm hex key.

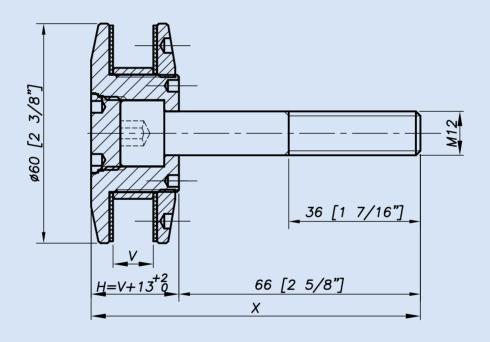
Designation: fixed bolt, cylindrical head, for installation from the outside.



Typical application:			
Mounting	Alternate product		
Vertical facade	Yes		
Roof/canopy	Yes		
Guard rail	Possible	see SADEV Decor	
*Blind access	Yes		
Sloped glazing	Yes		

^{*}Installation from the outside (no access to the structure).

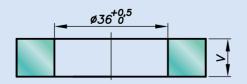
Dimensions:



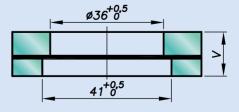
Glass drilling:

H validated by SADEV depending on availability.

Monolithic glass

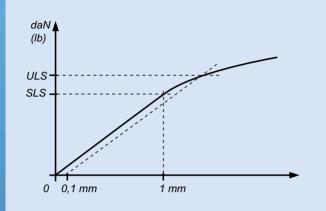


Laminated glass V = 1st glass + intercalated films + 2nd glass



Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



	Bending capacity			Pull out capacity	
	D	SLS*	ULS*	ULS*	
M14	45 mm				
IVI 14	60 mm	No test			
M16	45 mm	available			
IVITO	60 mm				

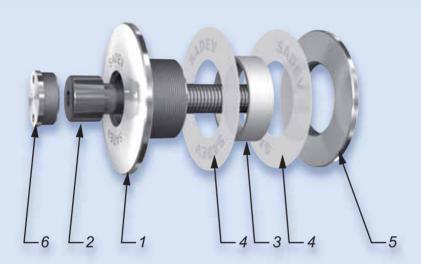
"SLS – Serviceability Limit State: load at 1 mm deformation.

*ULS – Ultimate Limit State: load at the elastic limit (Rp0.1).

Values are given without factor of safety.

Tests available online: www.sadev.com

Components:



Rep	Qty	Designation	Material
1	1	Body	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Bolt DIN912 M12-70	A4
3	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
4	2	Contact Washer	White polyacetal / white polyethylene
5	1	Glass Nut Ø 60	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Cover Cap	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

Insert parts No. 1, 4, and 3 into the glass hole.

Mount the second contact washer No. 4 and glass nut No. 5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using SADEV tools ref. 758-11-60 and ref. CLE-DYN-072031. Mount into the support with bolt No. 2, tighten in function of the support with a 10 mm hex key. Mount cover cap No. 6 using SADEV tool ref. 758-11-60.

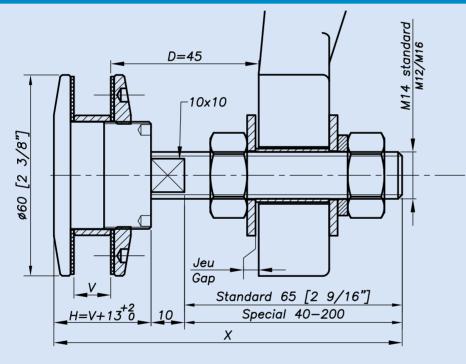
Designation: fixed bolt, cylindrical head.

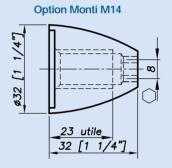


Typical application:			
Mounting		Alternate product	
Vertical facade	Yes		
Roof/canopy	Yes		
Guard rail	Yes	see SADEV Decor	
*Blind access	No	V2003	
Sloped glazing	Yes		

^{*}Installation from the outside (no access to the structure).

Dimensions:



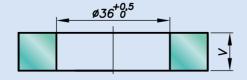


Option 3025 M14

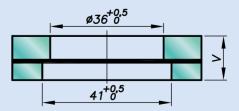
H validated by SADEV depending on availability.

Glass drilling:

Monolithic glass

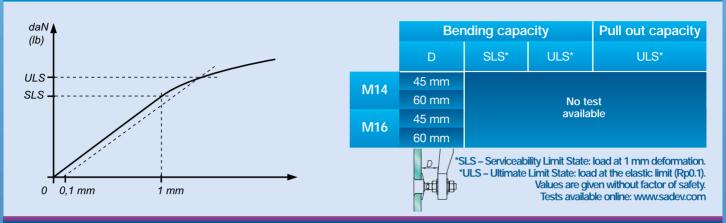


Laminated glass V = 1st glass + intercalated films + 2nd glass

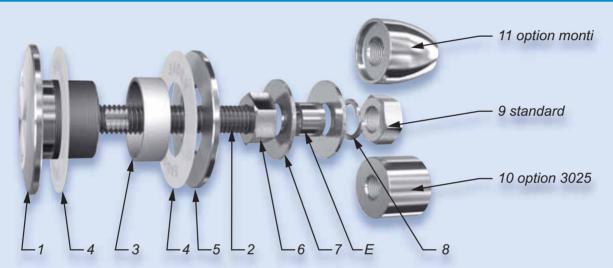


Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	Body	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Thread axle	A4
3	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
4	2	Contact Washer	White polyacetal / white polyethylene
5	1	Glass Nut Ø 60	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Nut DIN 934	A4
7	2	Washer	A4
8	1	Lock Washer DIN127	A4
9	1	Nut DIN 934	A4
10	1	3025 Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3
11	1	Monti Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

Insert parts No. 1/2, 4, and 3 into the glass hole.

Mount the second contact washer No. 4 and glass nut No. 5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using SADEV tools ref. 758-11-60 and ref. CLE-DYN-072031.

Thread on nut No. 6 and apply washer No. 7.

Insert the thread axle into the support with spacer E (available on request), see technical page. Adjust the depth.

Mount the second washer No. 7, lock washer No. 8, and nut No. 9. Tighten to 60Nm (45 ft-lb) using a 22 mm wrench.

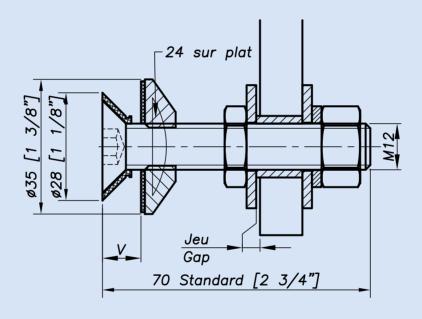
Designation: fixed bolt, countersunk head.



Typical application:			
Mounting		Alternate product	
Vertical facade	Yes		
Roof/canopy	No		
Guard rail	No	V2005 - see SADEV Decor	
*Blind access	No	V2003	
Sloped glazing	Yes		

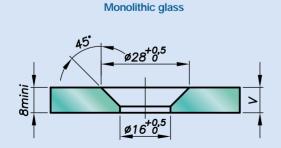
^{*}Installation from the outside (no access to the structure).

Dimensions:

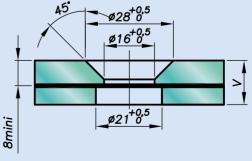


H validated by SADEV depending on availability.

Glass drilling:

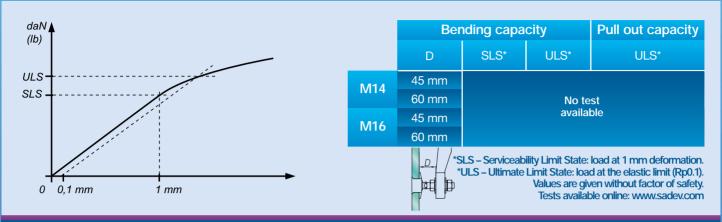


Laminated glass V = 1st glass + intercalated films + 2nd glass

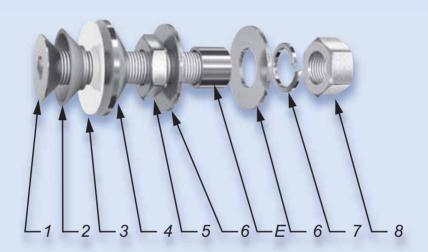


Available for glass thicknesses from 8 to 17.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	Bolt DIN 7991 M12-70	A4
2	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
3	1	Contact Washer	White polyacetal / white polyethylene
4	1	Glass Nut Ø 35	X2 Cr Ni Mo 17.12.2 per EN 10088-3
5	1	Nut DIN 439 M12	A4
6	2	Washer Ø 32	A4
7	1	Lock Washer DIN127 B12	A4
8	1	Nut DIN 934 M12	A4

Suggested mounting instruction:

Insert parts No. 1 and 2 into the glass.

Mount contact washer No. 3 and glass nut No. 4 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using a 8 mm hex key and a 24 mm wrench.

Mount nut No. 5 and washer No. 6.

Insert the thread axle into the support with spacer E (available on request), see technical page. Adjust the depth.

Mount the second washer No. 6, lock washer No. 7, and nut No. 8. Tighten to 60 Nm (45 ft-lb) using a 19 mm wrench.

Designation: fixed bolt, cylindrical head, Ø 50 mm.



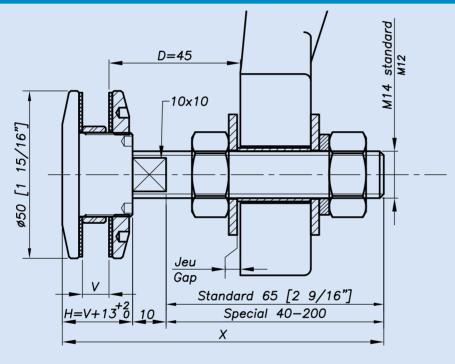
Typical application:

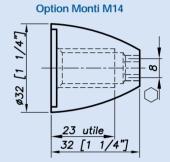
Mounting

Alternate product

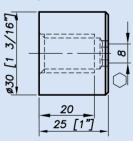
This is a substitute product for smaller drilling or in scenarios where the glass hole is undersized (ex. laminated glass slip).

Dimensions:





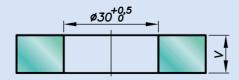
Option 3025 M14



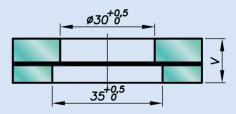
H validated by SADEV depending on availability.

Glass drilling:

Monolithic glass

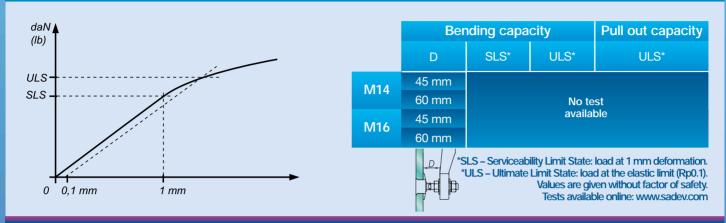


Laminated glass V = 1st glass + intercalated films + 2nd glass



Available for glass thicknesses from 8 to 31.52 mm, for other thicknesses please consult us.

Mechanical properties:



Components:



Rep	Qty	Designation	Material
1	1	Body	X2 Cr Ni Mo 17.12.2 per EN 10088-3
2	1	Thread axle	A4
3	1	Glass Hole Grommet	AW-1050A per EN 573-3 / AI 99.5%
4	2	Contact Washer	White polyacetal / white polyethylene
5	1	Glass Nut Ø 50	X2 Cr Ni Mo 17.12.2 per EN 10088-3
6	1	Nut DIN 934	A4
7	2	Washer	A4
8	1	Lock Washer DIN127	A4
9	1	Nut DIN 934	A4
10	1	3025 Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3
11	1	Monti Cap Nut - Option	X2 Cr Ni Mo 17.12.2 per EN 10088-3

Suggested mounting instruction:

Insert parts No. 1/2, 4, and 3 into the glass hole.

Mount the second contact washer No. 4 and glass nut No. 5 and tighten to 20 Nm (15 ft-lb) for monolithic glass and 10 Nm (7.5 ft-lb) for laminated glass using tools SADEV ref. 758-11-60.

Mount nut No. 6 and washer No. 7 onto parts No. 1/2.

Insert the thread axle into the support with spacer E (available on request), see technical page. Adjust the depth.

Mount the second washer No. 7, lock washer No. 8, and nut No. 9 and tighten to 60 Nm (45 ft-lb) using a 22 mm wrench.