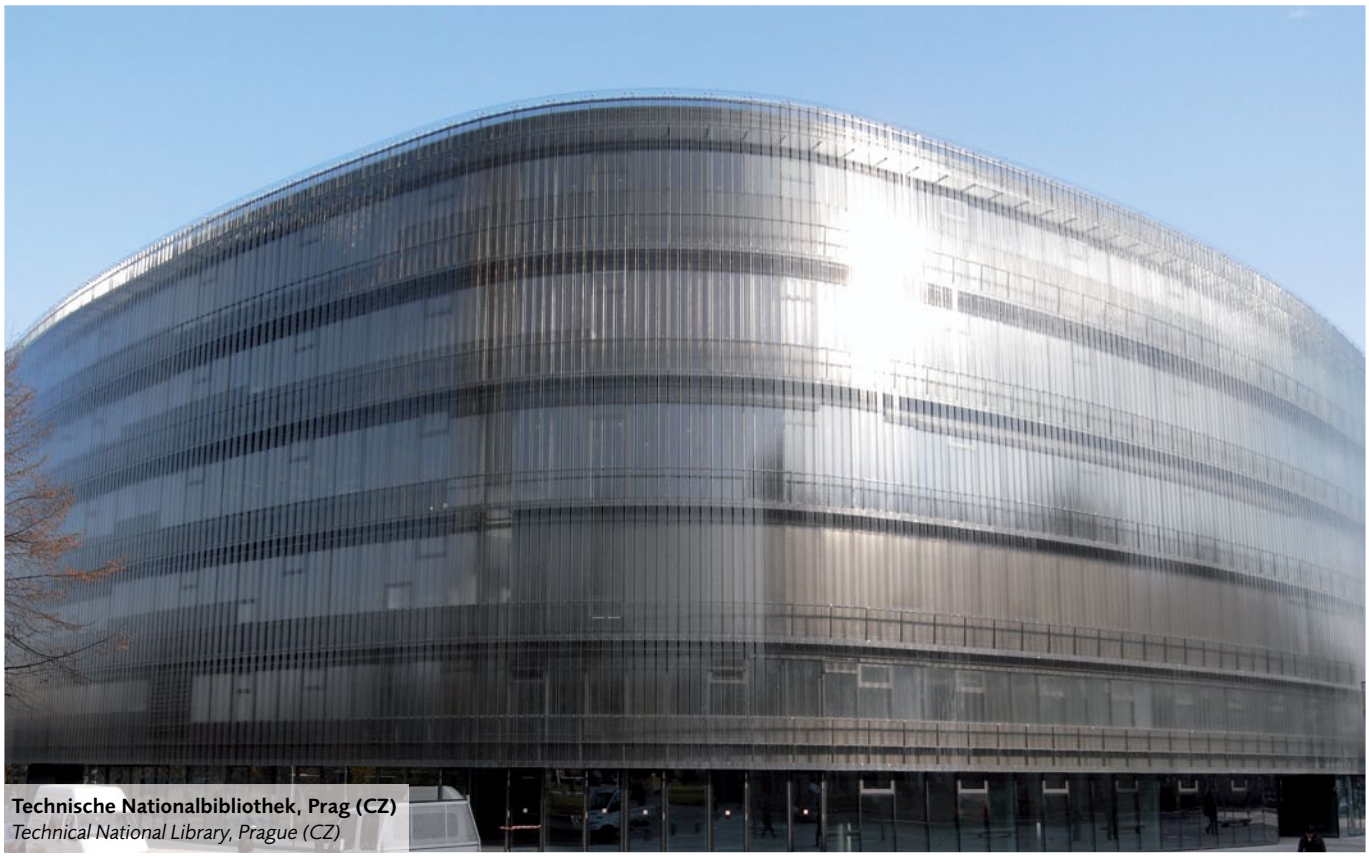
LängleGlas
Befestigungs-Systeme
Glass-Fastening-Systems

Punkthaltesysteme
Point Fitting Systems



Technische Nationalbibliothek, Prag (CZ)
Technical National Library, Prague (CZ)

Außenüberdachung, Heerbrugg (CH)
Exterior roofing, Heerbrugg (CH)

Wirkungsvolle Lösungen für große Ansprüche

Punkthalter - mit Gelenk oder starr - bieten vielfältige Möglichkeiten für eine sichere und dauerhafte Glasbefestigung.

Mit Gelenkpunkthaltern können Schrägstellungen der Unterkonstruktion problemlos ausgeglichen werden - Verformungsspannungen durch Windeinwirkung oder Schneelasten werden zwängungsfrei in die Unterkonstruktion abgeleitet.

Ob im Fassadenbereich oder für die Befestigung von Glasdächern - LängleGlas Punkthalter bieten durch verschiedenste Größen und Formen für jedes Objekt die perfekte Lösung.

Effective solutions for sophisticated demands

Point fittings - with joint or rigid - offer various possibilities for a safe and durable glass fastening.

With joint fittings inclinations of the substructure can be adjusted without any problems - deformation stress through wind effects or snow loads are transfered to the substructure without restraint.

Whether for facades or for the fastening ob glass roofs - the various dimensions and designs of LängleGlas point fittings offer a perfect solution for any object.

Punkthalter | Vorteile:

- statisch berechnet und geprüft
- einsetzbar für alle Glasdicken
- unterschiedlichste Formen wählbar
- hochwertigste Materialien
- langlebiges Funktionsbauteil
- europäisches Qualitätsprodukt

Point fittings | advantages:

- *statically calculated and approved*
- *applicable for all glass thicknesses*
- *various designs available*
- *high-grade material*
- *long-living component*
- *European quality product*

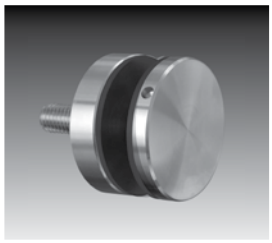
Punkthalter | Anwendungen:

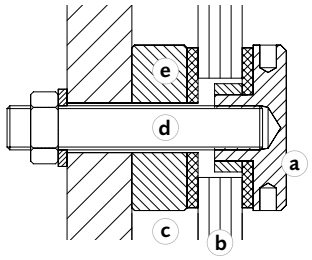
- Glasfassaden
- Glasdächer
- Glasgeländer und -brüstungen

Point fittings | applications:

- *glass facades*
- *glass roofs*
- *glass railings and balustrades*

AL-Punkt





Bestehend aus:

1 Punkt-Kopfteil
1 Distanz (Höhe 10 mm)
2 EPDM Scheiben
1 EPDM Schlauchstück
(Punkt-16 ohne Schlauchstück)

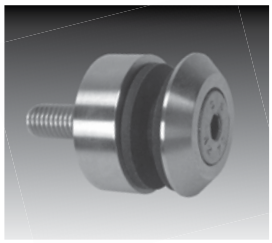
Edelstahl A2 (1.4301)*

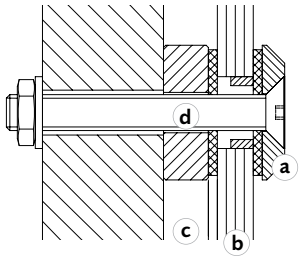
Consisting of:

1 flat head part
1 distance (height 10 mm)
2 EPDM washers
1 EPDM tube
(Punkt-16) without tube)

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Durchmesser** *Diameter*	(b) **Glasstärke** *Glass thickness*	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	(e) **Distanz** *Distance*	**Glasbohrung** *Cutout*	**Traglast** *Load*
41AL-PUNKT-16	Ø 16 mm	4 - 6 mm	10 + 2 mm	Gewindestift M5x45 *set screw M5x45*	Standard *standard*	Ø 10 mm	28 kg (0,28 kN)
41AL-PUNKT-16-ST	Ø 16 mm	4 - 6 mm	10 + 2 mm	*Stockschraube M5x50* *hanger screw M5x50*	Standard *standard*	Ø 10 mm	28 kg (0,28 kN)
41AL-PUNKT-30/8	Ø 30 mm	6 - 15 mm	10 + 2 mm	Gewindestift M8x45 *set screw M8x45*	Standard *standard*	Ø 18 mm	62 kg (0,62 kN)
41AL-PUNKT-30/8-ST	Ø 30 mm	6 - 15 mm	10 + 2 mm	Stockschraube M8x60 *hanger screw M8x60*	Standard *standard*	Ø 18 mm	62 kg (0,62 kN)
41AL-PUNKT-30/8-G	Ø 30 mm	6 - 15 mm	10 + 2 mm	Gewindestift M8x45 *set screw M8x45*	mit Gewinde *with thread*	Ø 18 mm	62 kg (0,62 kN)
41AL-PUNKT-45	Ø 45 mm	8 - 20 mm	10 + 2 mm	Gewindestift M10x50 *set screw M10x50*	Standard *standard*	Ø 22 mm	100 kg (1,0 kN)
41AL-PUNKT-45-ST	Ø 45 mm	8 - 20 mm	10 + 2 mm	Stockschraube M10x80 *hanger screw M10x80*	Standard *standard*	Ø 22 mm	100 kg (1,0 kN)
41AL-PUNKT-45-G	Ø 45 mm	8 - 20 mm	10 + 2 mm	Gewindestift M10x50 *set screw M10x50*	mit Gewinde *with thread*	Ø 22 mm	100 kg (1,0 kN)
41AL-PUNKT-60	Ø 60 mm	10 - 24 mm	10 + 2 mm	Gewindestift M10x50 *set screw M10x50*	Standard *standard*	Ø 26 mm	100 kg (1 kN) TRAV konform
41AL-PUNKT-60-ST	Ø 60 mm	10 - 24 mm	10 + 2 mm	Stockschraube M10x80 *hanger screw M10x80*	Standard *standard*	Ø 26 mm	100 kg (1 kN) TRAV konform
41AL-PUNKT-60-G	Ø 60 mm	10 - 24 mm	10 + 2 mm	Gewindestift M10x50 *set screw M10x50*	mit Gewinde *with thread*	Ø 26 mm	100 kg (1 kN) TRAV konform
41AL-PUNKT-80	Ø 80 mm	10 - 24 mm	10 + 2 mm	Gewindestift M12x50 *set screw M12x50*	Standard *standard*	Ø 30 mm	100 kg (1 kN) TRAV konform
41AL-PUNKT-80-G	Ø 80 mm	10 - 24 mm	10 + 2 mm	Gewindestift M12x50 *set screw M12x50*	mit Gewinde *with thread*	Ø 30 mm	100 kg (1 kN) TRAV konform





Bestehend aus:

1 Trapez-Kopfteil
1 Distanz (Höhe 10 mm)
2 EPDM Scheiben
1 EPDM Schlauchstück
(Trapez-16 ohne Schlauchstück)

Edelstahl A2 (1.4301)*

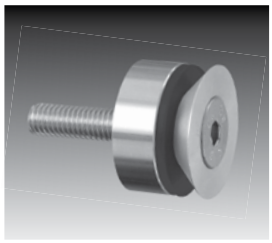
Consisting of:

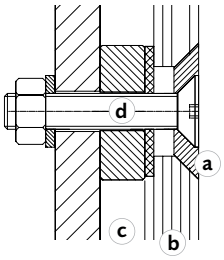
1 chamfered head part
1 distance (height 10 mm)
2 EPDM washers
1 EPDM tube
(Trapez-16 without tube)

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	a **Durchmesser** *Diameter*	b **Glasstärke** *Glass thickness*	c **Wand - Glas** *Wall - glass*	d **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
41AL-TRAPEZ-16	Ø 16 mm	4 - 8 mm	10 + 2 mm	Senkschraube M5x40 *countersunk screw M5x40*	Ø 8 mm	20 kg (0,2 kN)
41AL-TRAPEZ-16-SP	Ø 16 mm	4 - 8 mm	10 + 2 mm	*Spanplattenschraube M5x50* *chipboard screw M5x50*	Ø 8 mm	20 kg (0,2 kN)
41AL-TRAPEZ-30/6	Ø 30 mm	6 - 12 mm	10 + 2 mm	Senkschraube M6x40 *countersunk screw M6x40*	Ø 16 mm	30 kg (0,3 kN)
41AL-TRAPEZ-30/6-SP	Ø 30 mm	6 - 12 mm	10 + 2 mm	*Spanplattenschraube M6x60* *chipboard screw M6x60*	Ø 16 mm	30 kg (0,3 kN)
41AL-TRAPEZ-30/8	Ø 30 mm	6 - 20 mm	10 + 2 mm	Senkschraube M8x45 *countersunk screw M8x45*	Ø 16 mm	50 kg (0,5 kN)
41AL-TRAPEZ-30/8-SP	Ø 30 mm	6 - 20 mm	10 + 2 mm	*Spanplattenschraube M8x60* *chipboard screw M8x60*	Ø 16 mm	50 kg (0,5 kN)
41AL-TRAPEZ-45	Ø 45 mm	8 - 20 mm	10 + 2 mm	Senkschraube M10x50 *countersunk screw M10x50*	Ø 16 mm	80 kg (0,8 kN)
41AL-TRAPEZ-60	Ø 60 mm	10 - 24 mm	10 + 2 mm	Senkschraube M10x50 *countersunk screw M10x50*	Ø 26 mm	80 kg (0,8 kN)
41AL-TRAPEZ-80	Ø 80 mm	10 - 24 mm	10 + 2 mm	Senkschraube M12x50 *countersunk screw M12x50*	Ø 26 mm	80 kg (0,8 kN)

AL-Senk





Bestehend aus:

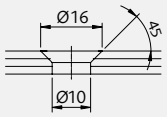
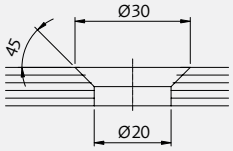
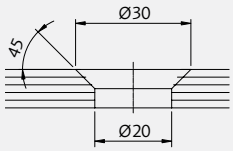
1 Senk-Kopfteil
1 Distanz (Höhe 10 mm)
1 EPDM Scheibe

Kopfteil Aluminium
Distanz Edelstahl A2
(1.4301)

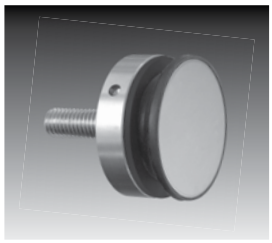
Consisting of:

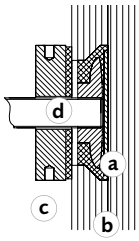
1 countersunk head part
1 distance (height 10 mm)
1 EPDM washer

head part aluminium
distance stainless steel A2
(1.4301)

Artikel Nr. *Item no.*	a **Kopfteil** *Head part*	b **Glasstärke** *Glass thickness*	c **Wand - Glas** *Wall - glass*	d **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
41AL-SENK-16	Ø 16 mm	4 - 8 mm	10 + 2 mm	Senkschraube M5x40 *countersunk screw M5x40*		25 kg (0,25 kN)
41AL-SENK-16-SP	Ø 16 mm	4 - 8 mm	10 + 2 mm	*Spanplattenschraube M5x50* *chipboard screw M5x50*		
41AL-SENK-30/6	Ø 30 mm	8 - 12 mm	10 + 2 mm	Senkschraube M6x40 *countersunk screw M6x40*		30 kg (0,3 kN)
41AL-SENK-30/6-SP	Ø 30 mm	8 - 12 mm	10 + 2 mm	*Spanplattenschraube M6x60* *chipboard screw M6x60*		
41AL-SENK-30/8	Ø 30 mm	8 - 20 mm	10 + 2 mm	Senkschraube M8x45 *countersunk screw M8x45*		50 kg (0,5 kN)
41AL-SENK-30/8-SP	Ø 30 mm	8 - 20 mm	10 + 2 mm	*Spanplattenschraube M8x60* *chipboard screw M8x60*		

AO-Flex® mit Platte | *with plate*





Bestehend aus:

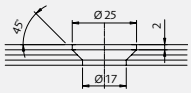
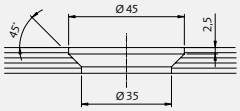
1 Senk-Kopfteil
1 Abdeckplatte
1 Distanz
1 EPDM Scheibe

Edelstahl A2 (1.4301)
Kopfteil Gummi-ummantelt

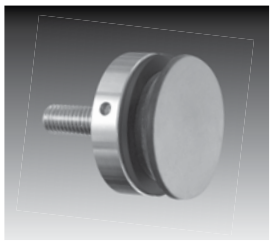
Consisting of:

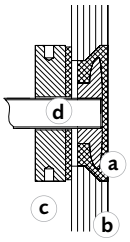
1 countersunk head part
1 cover plate
1 distance
1 EPDM washer

stainless steel A2 (1.4301)
rubber-coated head part

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*		(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)	(2)			(1), (2)	
41AO-FLEX-25	Ø 25 mm	8 - 20 mm	8 - 20 mm	5 + 2 mm	Gewindestift M8x45 *set screw M8x45*		90 kg (0,9 kN)
41AO-FLEX-45	Ø 45 mm	10 - 20 mm	10 - 20 mm	10 + 2 mm	Gewindestift M10x45 *set screw M10x45*		150 kg (1,5 kN)

AO-Flex® ohne Platte | *without plate*





Bestehend aus:

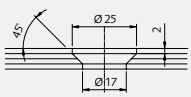
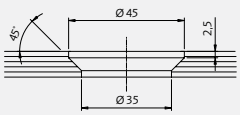
1 Senk-Kopfteil
1 Distanz
1 EPDM Scheibe

Edelstahl A2 (1.4301)
Kopfteil Gummi-ummantelt

Consisting of:

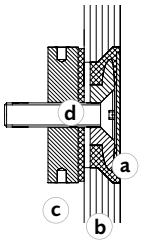
1 countersunk head part
1 distance
1 EPDM washer

stainless steel A2 (1.4301)
rubber-coated head part

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)			(1)	
41AO-FLEX-25-OP	Ø 25 mm	8 - 20 mm	5 + 2 mm	Gewindestift M8x45 *set screw M8x45*		90 kg (0,9 kN)
41AO-FLEX-45-OP	Ø 45 mm	10 - 20 mm	10 + 2 mm	Gewindestift M10x45 *set screw M10x45*		150 kg (1,5 kN)

(1) Einscheibensicherheitsglas *toughened glass*
(2) Verbundsicherheitsglas *laminated safety glass*

AO-Flex® für Frontmontage | *for front assembly*



Bestehend aus:

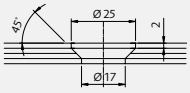
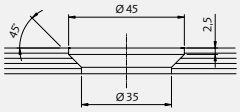
1 Senk-Kopfteil
1 Abdeckplatte
1 Distanz
1 EPDM Scheibe

Edelstahl A2 (1.4301)
Kopfteil Gummi-ummantelt

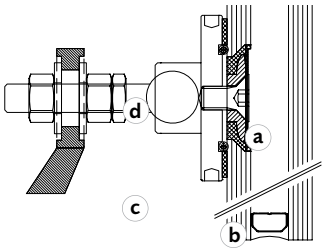
Consisting of:

1 countersunk head part
1 cover plate
1 distance
1 EPDM washer

stainless steel A2 (1.4301)
rubber-coated head part

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness* (1)	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout* (1)	**Traglast** *Load*
41AO-FLEX-25-FM	Ø 25 mm	8 - 20 mm	5 + 2 mm	Senkschraube M6x45 *countersunk screw M6x45*		90 kg (0,9 kN)
41AO-FLEX-45-FM	Ø 45 mm	10 - 20 mm	10 + 2 mm	Senkschraube M8x45 *countersunk screw M8x45*		150 kg (1,5 kN)

AO-Flex® für Isolierglas | *for insulation glass*



Bestehend aus:

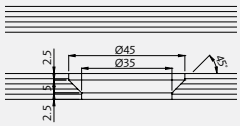
1 Senk-Kopfteil
1 Senkschraube M10x20
1 Distanz (Höhe 5 mm)
1 EPDM Scheibe
mit Kugelgelenk

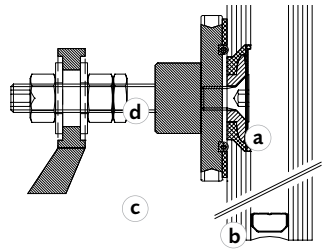
Edelstahl A2 (1.4301)
Kopfteil Gummi-ummantelt

Consisting of:

1 countersunk head part
1 countersunk screw M 10x20
1 distance (height 5 mm)
1 EPDM washer
with joint

stainless steel A2 (1.4301)
rubber-coated head part

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness* (3)	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout* (3)	**Traglast** *Load*
41AO-FLEX-ISO-G-M14	Ø 45 mm	10 mm min.	variabel *variable*	Gewindestift M14x80 *set screw M14x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AO-FLEX-ISO-G-M16	Ø 45 mm	10 mm min.	variabel *variable*	Gewindestift M16x80 *set screw M16x80*		



Bestehend aus:

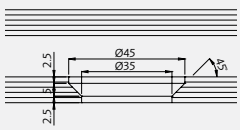
1 Senk-Kopfteil
1 Senkschraube M10x20
1 Distanz (Höhe 5 mm)
1 EPDM Scheibe
starre Ausführung

Edelstahl A2 (1.4301)
Kopfteil Gummi-ummantelt

Consisting of:

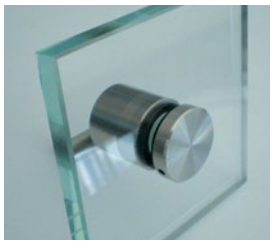
1 countersunk head part
1 countersunk screw M 10x20
1 distance (height 5 mm)
1 EPDM washer
rigid version

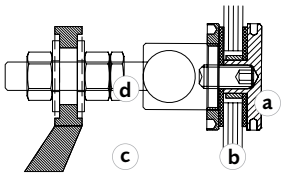
stainless steel A2 (1.4301)
rubber-coated head part

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness* (3)	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout* (3)	**Traglast** *Load*
41AO-FLEX-ISO-S-M14	Ø 45 mm	10 mm min.	variabel *variable*	Gewindestift M14x80 *set screw M14x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AO-FLEX-ISO-S-M16	Ø 45 mm	10 mm min.	variabel *variable*	Gewindestift M16x80 *set screw M16x80*		

(1) Einscheibensicherheitsglas *toughened glass*
(2) Verbundsicherheitsglas *laminated safety glass*
(3) Isolierglas *insulation glass*

Fassadenhalter | *Facade Fittings*





Bestehend aus:

1 Punkt-Kopfteil
1 Gewindestift M10x35
2 EPDM Scheibe
1 EPDM Schlauchstück
mit Kugelgelenk

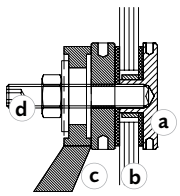
Edelstahl A2 (1.4301)*

Consisting of:

1 flat head part
1 set screw M10x35
2 EPDM washers
1 EPDM tube
with joint

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*		(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)	(2)			(1), (2)	
41AL-FGP45-M10	Ø 45 mm	8 - 15 mm	8 - 20 mm	variabel *variable*	Gewindestift M10x80 *set screw M10x80*	Ø 22 mm	Abscheren | *shear* VaRd = 17,68 kN Zug | *tension* NRd = 15,2 kN
41AL-FGP45-M12					Gewindestift M12x80 *set screw M12x80*		



Bestehend aus:

1 Punkt-Kopfteil
2 EPDM Scheibe
1 EPDM Schlauchstück
starre Ausführung

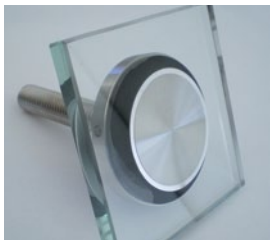
Edelstahl A2 (1.4301)*

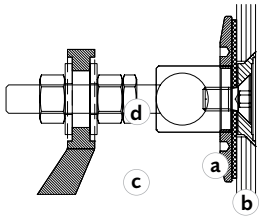
Consisting of:

1 flat head part
2 EPDM washers
1 EPDM tube
rigid version

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*		(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)	(2)			(1), (2)	
41AL-FSP45-M10	Ø 45 mm	8 - 15 mm	8 - 20 mm	variabel *variable*	Gewindestift M10x60 *set screw M10x60*	Ø 22 mm	Abscheren | *shear* VaRd = 17,68 kN Zug | *tension* NRd = 15,2 kN





Bestehend aus:

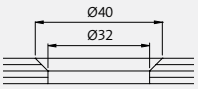
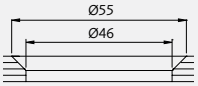
1 versenktes Kopfteil
1 Senkschraube M10x20
1 Abdeckplatte
1 EPDM Scheibe
mit Kugelgelenk

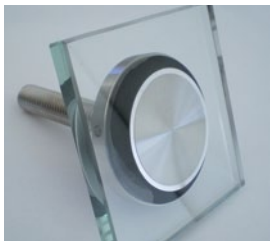
Edelstahl A2 (1.4301)*

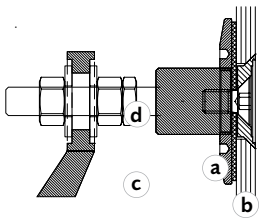
Consisting of:

1 countersunk head part
1 countersunk screw M10x20
1 cover plate
1 EPDM washer
with joint

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness* (1)	(2)	(3)	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
41AL-FGV40-M12	Ø 40 mm	8 - 12 mm	8 - 16 mm	---	variabel *variable*	Gewindestift M12x80 *set screw M12x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FGV40-M14						Gewindestift M14x80 *set screw M14x80*		
41AL-FGV40-M16						Gewindestift M16x80 *set screw M16x80*		
41AL-FGV55-M12	Ø 55 mm	8 - 15 mm	8 - 16 mm	10 mm min.	variabel *variable*	Gewindestift M12x80 *set screw M12x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FGV55-M14						Gewindestift M14x80 *set screw M14x80*		
41AL-FGV55-M16						Gewindestift M16x80 *set screw M16x80*		





Bestehend aus:

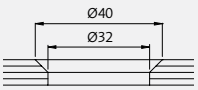
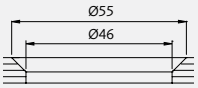
1 versenktes Kopfteil
1 Senkschraube M10x20
1 Abdeckplatte
1 EPDM Scheibe
starre Ausführung

Edelstahl A2 (1.4301)*

Consisting of:

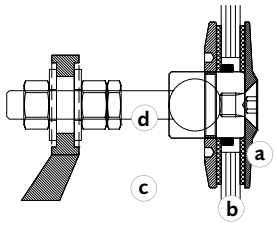
1 countersunk head part
1 countersunk screw M10x20
1 cover plate
1 EPDM washer
rigid version

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness* (1)	(2)	(3)	(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
41AL-FSV40-M12	Ø 40 mm	8 - 12 mm	8 - 16 mm	---	variabel *variable*	Gewindestift M12x80 *set screw M12x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FSV40-M14						Gewindestift M14x80 *set screw M14x80*		
41AL-FSV40-M16						Gewindestift M16x80 *set screw M16x80*		
41AL-FSV55-M12	Ø 55 mm	8 - 15 mm	8 - 16 mm	10 mm min.	variabel *variable*	Gewindestift M12x80 *set screw M12x80*		Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FSV55-M14						Gewindestift M14x80 *set screw M14x80*		
41AL-FSV55-M16						Gewindestift M16x80 *set screw M16x80*		

(1) Einscheibensicherheitsglas *toughened glass*
(2) Verbundsicherheitsglas *laminated safety glass*
(3) Isolierglas *insulation glass*

Fassadenhalter | *Facade Fittings*



Bestehend aus:

1 Disc-Kopfteil
1 Senkschraube M10x16
1 Distanz (Höhe 5 mm)
2 EPDM Scheiben
mit Kugelgelenk

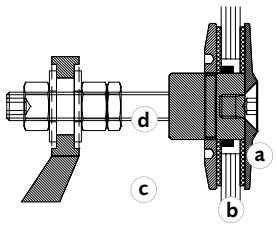
Edelstahl A2 (1.4301)*

Consisting of:

1 disc head part
1 countersunk screw M10x16
1 distance (height 5 mm)
2 EPDM washers
with joint

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*		(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)	(2)			(1), (2)	
41AL-FGD70-M12	Ø 70 mm	8 - 19 mm	8 - 24 mm	variabel *variable*	Gewindestift M12x80 *set screw M12x80*	Ø 40 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FGD70-M14					Gewindestift M14x80 *set screw M14x80*		
41AL-FGD70-M16					Gewindestift M16x80 *set screw M16x80*		



Bestehend aus:

1 Disc-Kopfteil
1 Senkschraube M10x16
1 Distanz (Höhe 5 mm)
2 EPDM Scheiben
starre Ausführung

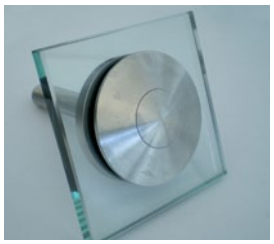
Edelstahl A2 (1.4301)*

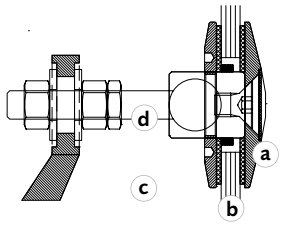
Consisting of:

1 disc head part
1 countersunk screw M10x16
1 distance (height 5 mm)
2 EPDM washers
rigid version

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*		(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*	**Traglast** *Load*
		(1)	(2)			(1), (2)	
41AL-FSD70-M12	Ø 70 mm	8 - 19 mm	8 - 24 mm	variabel *variable*	Gewindestift M12x80 *set screw M12x80*	Ø 40 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FSD70-M14					Gewindestift M14x80 *set screw M14x80*		
41AL-FSD70-M16					Gewindestift M16x80 *set screw M16x80*		





Bestehend aus:

1 aufgesetztes Kopfteil
1 Senkschraube M10x20
1 Abdeckplatte
1 Distanz (Höhe 5 mm)
2 EPDM Scheiben
mit Kugelgelenk

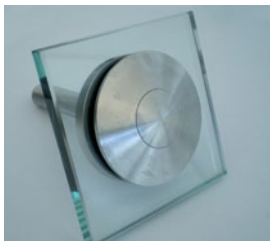
Edelstahl A2 (1.4301)*

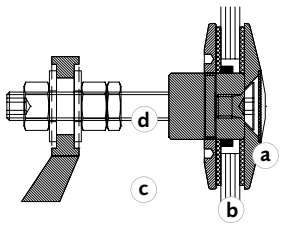
Consisting of:

1 raised head part
1 countersunk screw M10x20
1 cover plate
1 distance (height 5 mm)
2 EPDM washers
with joint

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*			(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*		**Traglast** *Load*
		(1)	(2)	(3)			(1), (2)	*(3)*	
41AL-FGA70-M12	Ø 70 mm	8 - 19 mm	8 - 24 mm	10 mm min.	variabel *variable*	Gewindestift M12x80 *set screw M12x80*	Ø 40 mm	Ø 46 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FGA70-M14						Gewindestift M14x80 *set screw M14x80*			
41AL-FGA70-M16						Gewindestift M16x80 *set screw M16x80*			
41AL-FGA80-M14	Ø 80 mm	8 - 19 mm	8 - 24 mm	10 mm min.	variabel *variable*	Gewindestift M14x80 *set screw M14x80*	Ø 40 mm	Ø 46 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FGA80-M16						Gewindestift M16x80 *set screw M16x80*			





Bestehend aus:

1 aufgesetztes Kopfteil
1 Senkschraube M10x20
1 Abdeckplatte
1 Distanz (Höhe 5 mm)
2 EPDM Scheiben
starre Ausführung

Edelstahl A2 (1.4301)*

Consisting of:

1 raised head part
1 countersunk screw M10x20
1 cover plate
1 distance (height 5 mm)
2 EPDM washers
rigid version

*stainless steel A2 (1.4301)**

Artikel Nr. *Item no.*	(a) **Kopfteil** *Head part*	(b) **Glasstärke** *Glass thickness*			(c) **Wand - Glas** *Wall - glass*	(d) **Schraube** *Screw*	**Glasbohrung** *Cutout*		**Traglast** *Load*
		(1)	(2)	(3)			(1), (2)	*(3)*	
41AL-FSA70-M12	Ø 70 mm	8 - 19 mm	8 - 24 mm	10 mm min.	variabel *variable*	Gewindestift M12x80 *set screw M12x80*	Ø 40 mm	Ø 46 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FSA70-M14						Gewindestift M14x80 *set screw M14x80*			
41AL-FSA70-M16						Gewindestift M16x80 *set screw M16x80*			
41AL-FSA80-M14	Ø 80 mm	8 - 19 mm	8 - 24 mm	10 mm min.	variabel *variable*	Gewindestift M14x80 *set screw M14x80*	Ø 40 mm	Ø 46 mm	Abscheren | *shear* VaRd = 19,5 kN Zug | *tension* NRd = 21,6 kN
41AL-FSA80-M16						Gewindestift M16x80 *set screw M16x80*			

(1) Einscheibensicherheitsglas *toughened glass*
(2) Verbundsicherheitsglas *laminated safety glass*
(3) Isolierglas *insulation glass*

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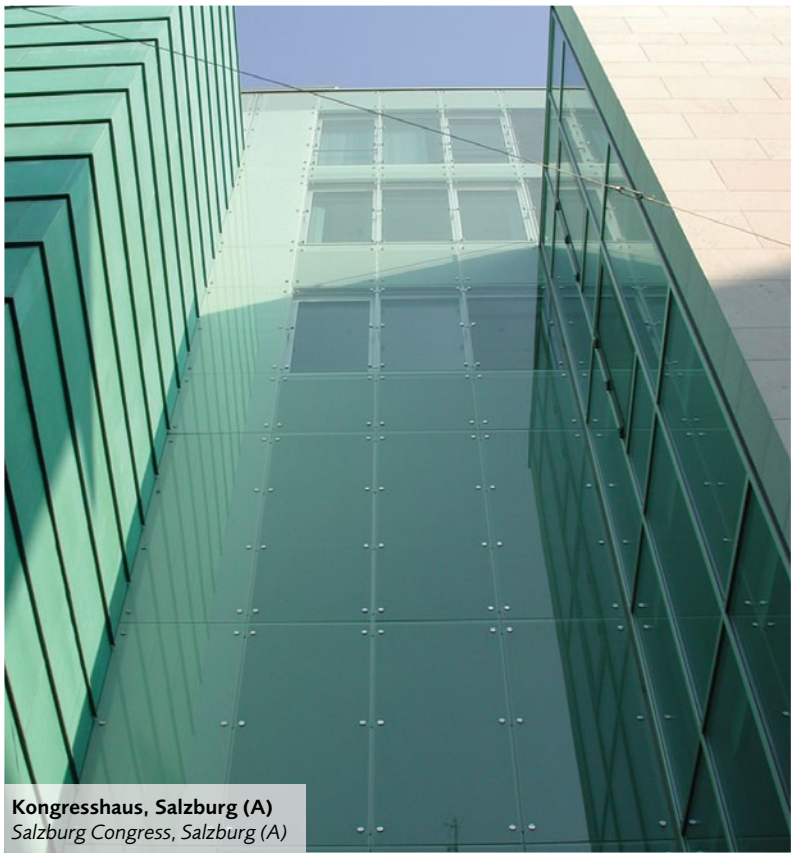
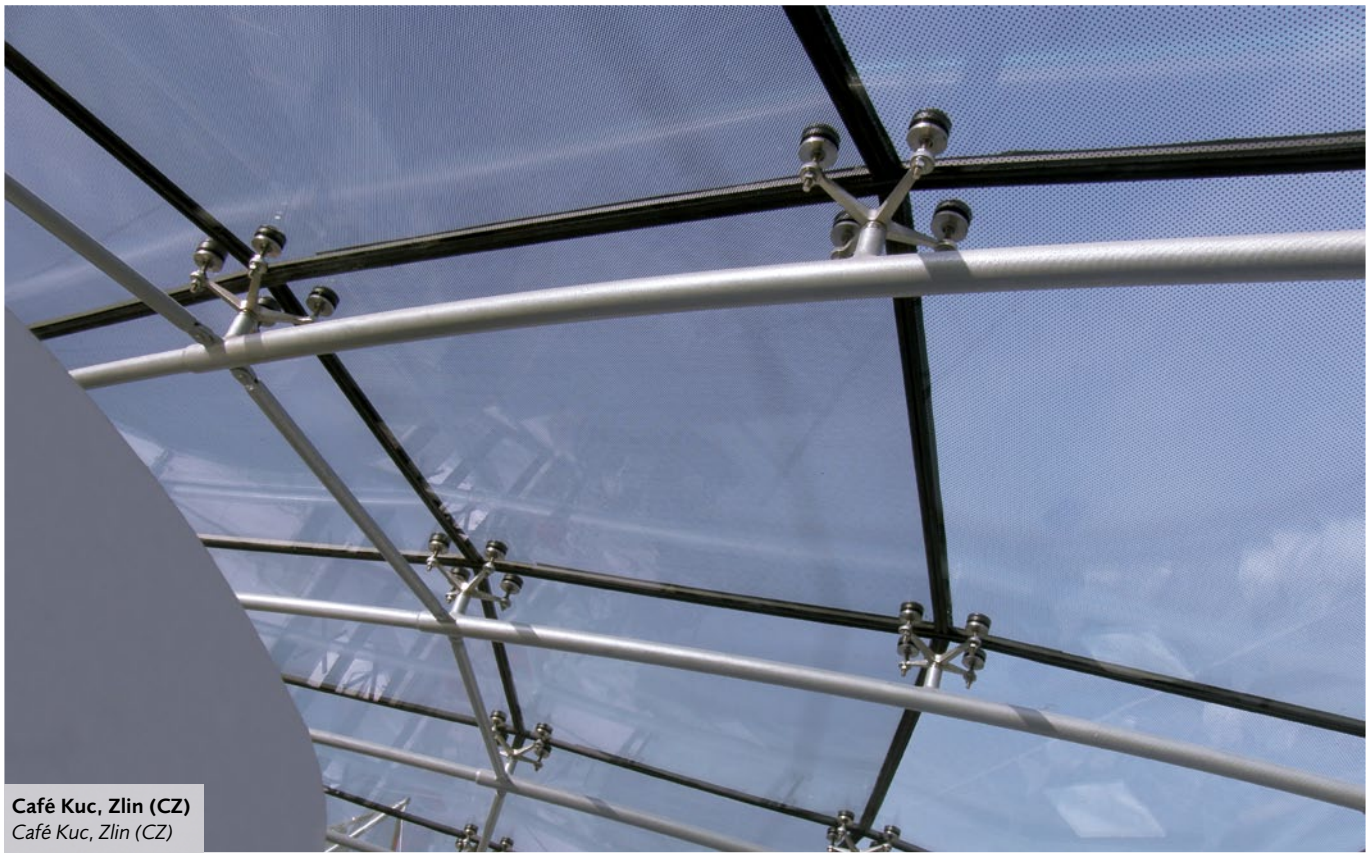
Gemeindeamt, Andelsbuch (A)
Municipal office, Andelsbuch (A)



Kongresshaus, Salzburg (A)
Salzburg Congress, Salzburg (A)



Café Kuc, Zlin (CZ)
Café Kuc, Zlin (CZ)

Zeitmessturm, Nottwil (CH)
Timing tower, Nottwil (CZ)

LänggleGlas
Befestigungs-Systeme
Glass-Fastening-Systems

Längle Glas GmbH
Hauptstraße 3
6840 Götzis
Österreich/Austria
T +43 (0)5523 536 30-20
F +43 (0)5523 536 30-21
office-gbs@langleglas.com
www.langleglas.com

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