

TYPE-01 / INDIVIDUAL
FIXING SYSTEM

SECTION - 02 Z-BRACKETS



Scan to view Z-Bracket's
Technical Guide

SYSTEM TYPE DZ01 WITH RETURNED LEG

Z-Bracket with Returned Leg

Application

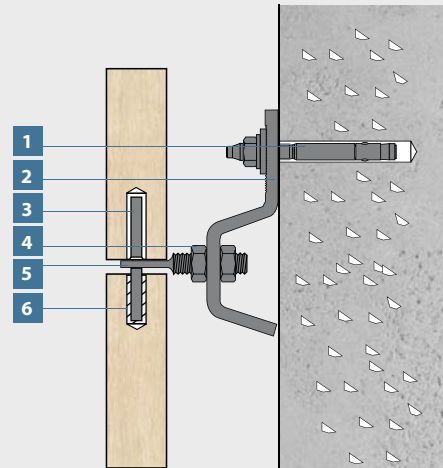
According to DIN 18515, all cladding panels which are larger than 0.1m² have to be anchored.

Material

Manufactured from stainless steel
AISI 304, 316, 316L and 316Ti
Adjustability in two directions.

Advantages

- ✓ The panels are secured to the anchoring base material with absolute safety.
- ✓ Manufactured from stainless steel for high corrosion resistance and better durability.
- ✓ The support and restraint brackets are adjustable in 2 directions.
- ✓ The brackets are fixed into the anchoring base by means of anchors. Due to the small drill hole dimensions of the anchors, the facade can be installed very quickly. The small size of drill hole into the anchoring base material means that heavy drilling equipment is not required.



1 Anchor bolt

2 Z-bracket

3 Pin

4 Nut

5 Flat head bolt

6 Plastic tube



Z-Bracket with Returned Leg Horizontal Joint Type DZ01H

Anchoring base:

According to the anchor bolt.

a cavity to backside to panel

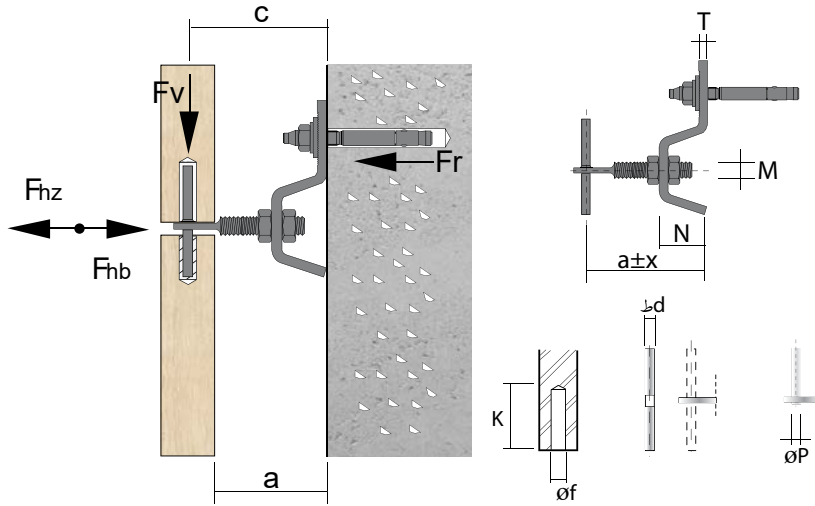
Adjustability:

in 2 directions

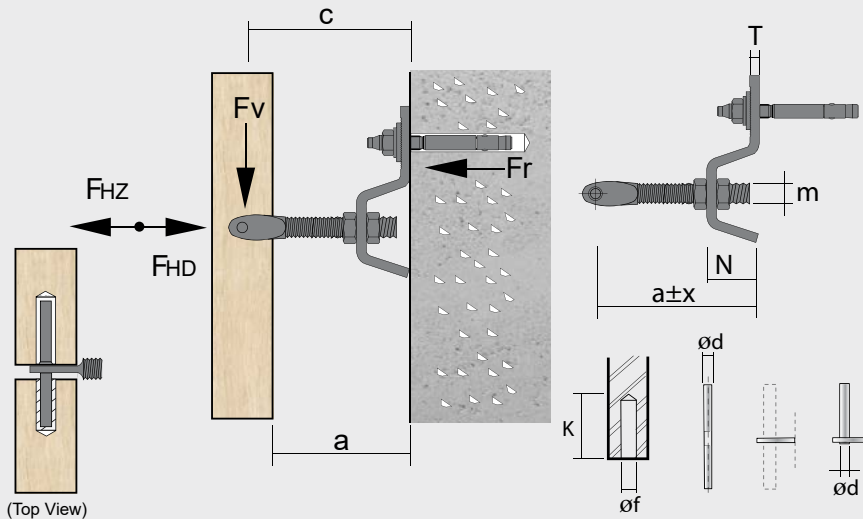
x ± 10 mm **z** ± 05 mm

F_v vertical load
F_{hd} horizontal load (wind pressure)

F_{hz} horizontal load (wind suction)
F_r pullout force



Z-Bracket with Returned Leg Vertical joint Type DZ01V



SYSTEM TYPE DZ01 WITH RETURNED LEG

Z-Bracket with Returned Leg DZ01

Materials SS304, SS316, SS316L, SS316TI, S235JR-MG, S235JR-HDG 50°C 24h average temperature Standard items:

Item No .	Width (W)	Thickness (T)	Oset (N)	FHB	Ø Pin	Slot
DZ01-35.3.20	35	3	20	M8	4	6.5 x 22
DZ01-40.3.30	40	3	30	M8	4	6.5 x 22
DZ01-45.3.40	45	3	40	M8	4	6.5 x 22
DZ01-50.3.50	50	3	50	M8	4	6.5 x 22
DZ01-40.4.20	40	4	20	M10	5	8.5 x 22
DZ01-40.4.30	40	4	30	M10	5	8.5 x 22
DZ01-45.4.40	45	4	40	M10	5	8.5 x 22
DZ01-50.4.50	50	4	50	M10	5	8.5 x 22
DZ01-40.5.20	40	5	20	M12	6	8.5 x 22
DZ01-45.5.30	45	5	30	M12	6	8.5 x 22
DZ01-45.5.40	45	5	40	M12	6	8.5 x 22
DZ01-50.5.50	50	5	50	M12	6	8.5 x 22

Load Table of Z-Bracket with Returned Leg

Materials SS304, SS316, SS316L , SS316TI, S235JR-MG, S235JR-HDG 50°C 24h average temperature

Bracket Offset mm	Cavity to Pin min - max mm (e)	Dead load max DL kN	Wind load max WL ± kN	Bracket Width mm	Bracket Thickness (T) mm	Ø Pin mm	FHB A2-70 A4-70	Anchor Comb . Force kN *
20	50-60	0.16	0.21	35	3	4	M8	1.90
30	60-70			40	3	4	M8	2.00
40	70-80			45	3	4	M8	2.10
50	80-90			50	3	4	M8	2.10
60	90-100			40	4	4	M8	2.10
70	100-110			40	4	4	M8	2.10
20	50-60			0.28	0.37	40	4	5
30	60-70	40	4			5	M10	3.60
40	70-80	45	4			5	M10	3.60
50	80-90	50	4			5	M10	3.70
60	90-100	50	4			5	M10	3.70
70	100-110	55	4			5	M10	3.80
20	50-60	0.45	0.66			40	5	6
30	60-70			45	5	6	M12	6.00
40	70-80			45	5	6	M12	6.10
50	80-90			50	5	6	M12	6.20
60	90-100			55	5	6	M12	6.30
70	100-110			60	5	6	M12	6.30

Loads per 1 bracket

If loads are bigger or dimensions are different, individual calculation is necessary

*with safety 3.0

Z-Bracket with Returned Leg Horizontal Joint



Engineered for Strength

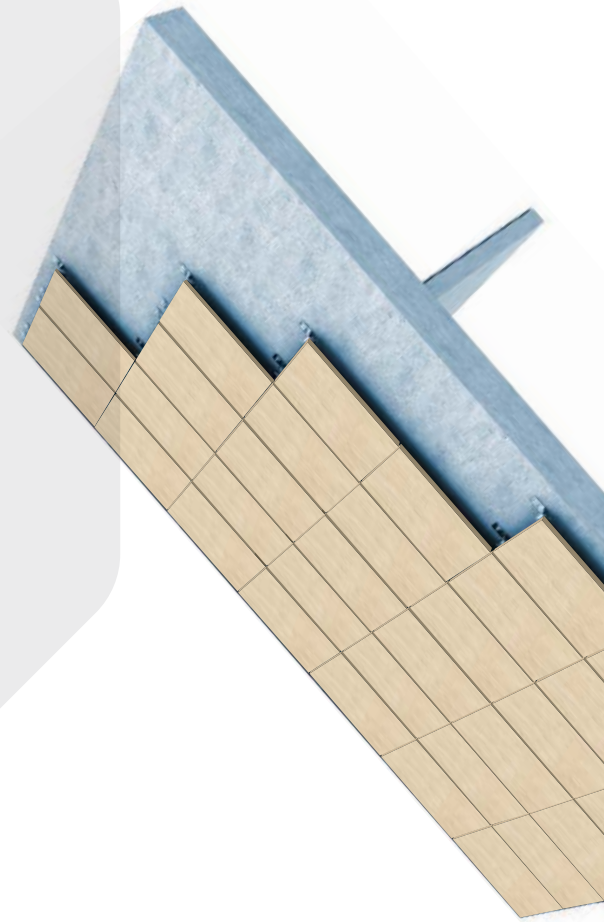
Z-Bracket handles dead load, wind, and thermal stress, exceeding DIN standards. Earthquake forces transfer seamlessly to the base.

Fast & Adaptable

Adjustable brackets and minimal anchor holes allow swift façade installation. Support and restraint anchors interchange for System 1-5, simplifying maintenance.

Durable & Versatile

High-grade steel, corrosion-resistant finish, ideal for ventilated facades, rainscreen cladding, and architectural panels.



Z-Bracket with Returned Leg Vertical Joint

Structural Mastery

Impeccable analysis accommodates dead load, wind, and thermal stresses, exceeding stringent DIN standards.

Expedited Installation

Adjustable brackets and minimized anchor requirements optimize facade installation, reducing project costs and minimizing downtime.

Modular Efficiency

Interchangeable restraint anchors across Systems 1-5 streamline maintenance, simplifying part replacement and enhancing operational efficiency.

Uncompromising Durability

High-grade steel construction with a corrosion-resistant finish ensures long-lasting aesthetics and minimal maintenance needs.

Versatile Application

Ideal for ventilated facades, rainscreen cladding, and architectural panels, offering unrivaled design flexibility.

