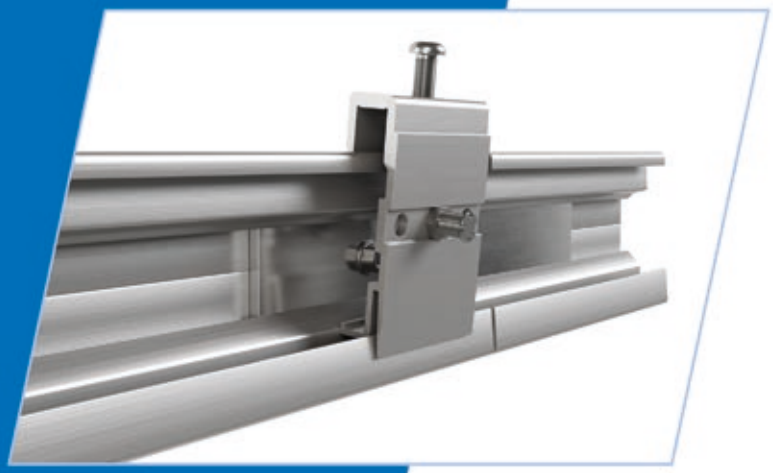
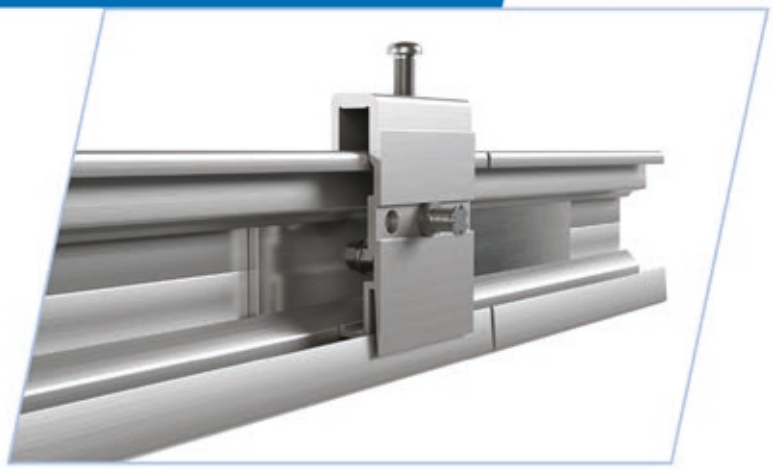
SPIDI® versa

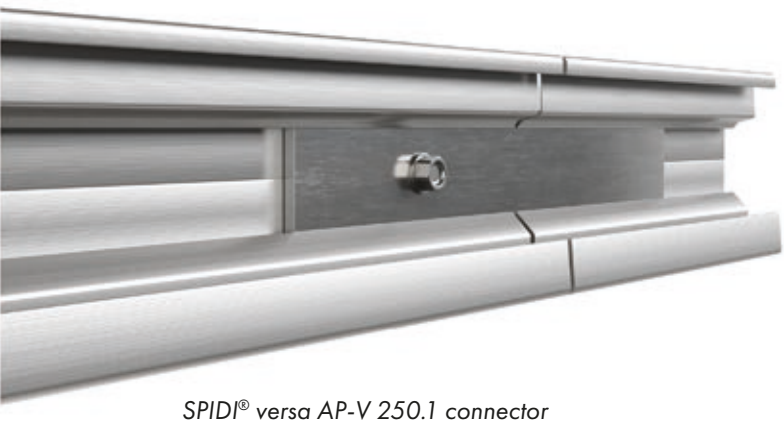
The SPIDI® versa hanger

The often difficult hanging of the cladding into the hanger rail due to production-related tolerances or unevenness of the respective cladding material is now a thing of the past: an innovative mounting assistance enables effortless insertion and removal of the panel during installation. Thanks to the intelligent geometry, the SPIDI® versa hangers do not tilt, even with large panels.



The adjusting screws are perfectly matched to the design of the hangers. They prevent the hangers from falling out of the SPIDI® versa hanger rail and therefore guarantee secure and reliable fastening without compromising on stability.





SPIDI® versa AP-V 250.1 connector

The SPIDI® versa hanger profile

The hanger profile has been specifically optimized to achieve an ideal ratio between high section modulus and low weight. Thanks to its shape, it also achieves remarkable torsional stiffness without exerting additional tensile forces on the undercut anchors of the hangers.

The SPIDI® versa connector serves as a connecting and extension element for the rails to reduce waste and conserve resources. Used as an assembling assistance, it also enables precise horizontal alignment of the profiles.

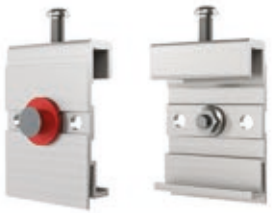
SPIDI® versa compatibility

Thanks to the well thought-out new development of the SPIDI® versa hangers, different undercut anchors or blind fasteners can be used with one and the same hanger.
SPIDI® versa KFSM 50.1 hangers (width 50 mm) are suitable for use with Keil (hexagon), Fischer Zyklon FZP II and Tergo+ (M6) undercut anchors, SFS blind fasteners TUF-S and the Swisspearl Sigma 8 Pro system.
The hangers have adjustment and fixing holes. The adjusting and fixing screws are available separately.

SPIDI® versa KFSM 50.1 hanger with adjustment and fixing holes

SPIDI® versa KFSM 50.1
with **Keil**
undercut anchor

SPIDI® versa KFSM 50.1
with **Fischer**
undercut anchor
Zyklon FZP II and Tergo+



SPIDI® versa KFSM 50.1
with **SFS**
blind fastener TUF-S

SPIDI® versa KFSM 50.1
with **Swisspearl**
Sigma 8 Pro System

SPIDI® versa system components

SPIDI® versa KFSM 50.1 hanger for Keil Tergo, Fischer Zyklon FZP II & Tergo+, SFS TUF-S, Swisspearl Sigma 8 Pro with adjustment and fixing holes	PU 100 pcs.
SPIDI® versa AP 25.1 hanger profile, length: 3m	PU 2 pcs.
SPIDI® versa AP 25.1 hanger profile, length: 6m	PU 2 pcs.
SPIDI® versa fixing screw 4,8x25, external hexagon 8	PU 500 pcs.
SPIDI® versa adjustment screw M6x14, hexagon socket	PU 500 pcs.
SPIDI® versa adjustment screw M6x14, hexagon socket	PU 100 pcs.
SPIDI® versa AP-V 250.1 connector 250 x 25 x 3 mm (LxHxT), alloy aluminium EN-AW 6063 T6	PU 50 pcs.
Optional: **SPIDI® versa TL 50.1 seperating layer**	PU 100 pcs.

SPIDI® versa

With the innovative hanger system SPIDI® versa, Slavonia shows once again that safety, profitability and optimization are feasible.

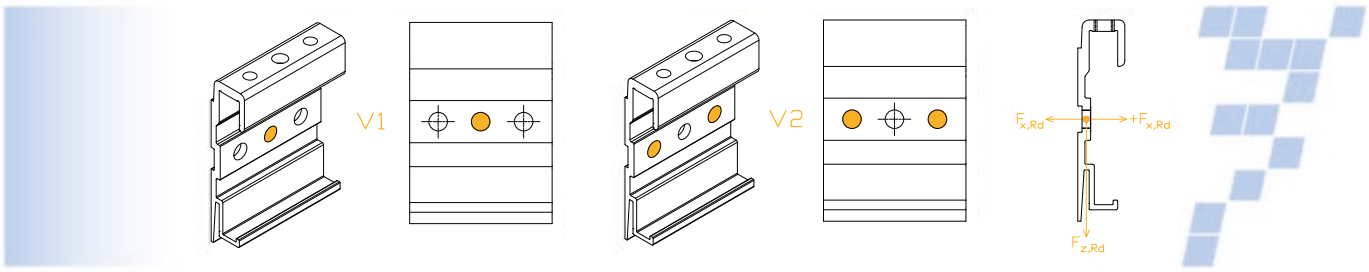
- intelligent geometry for effortless mounting and setting down, even with large panels
- perfectly matched adjusting screw
- compatible with the most common fasteners
- optimized hanger profile
- connector also serves as an assembling assistance

SPIDI® versa VMB-AFS1

SPIDI® versa hanger KFSM 50.1

Aluminum extrusion profile EN AW 6063 T66 according to DIN EN 1999-1-1

f_{ok}	200	[N/mm²]	characteristic value of 0,2 % proof strength
f_{uk}	245	[N/mm²]	characteristic value of ultimate tensile strength
f_{od}	181.82*	[N/mm²]	design value of 0,2 % proof strength
f_{ud}	222.73*	[N/mm²]	design value of ultimate tensile strength
A	8	[%]	minimum elongation at fracture
E	70,000	[N/mm²]	modulus of elasticity
G	27,000	[N/mm²]	shear modulus
ν	0.3	[-]	poisson's ratio in elastic stage
α	23x10^{-6}	[1/C°]	coefficient of linear thermal expansion
ρ	2,700	[kg/m³]	unit mass



Cross-sectional resistances

$F_{x,Rd}$	1.1*	[kN]	design resistance for horizontal tension/compression
$F_{z,Rd}$	1.1*	[kN]	design resistance for vertical shear force
Int.	1.0	[-]	interaction condition $(F_{x,Ed}/F_{x,Rd})+(F_{z,Ed}/F_{z,Rd}) \leq 1,0$

**based on γ_{m1}=1.1 according to EN 1999-1-1. Note: Partial safety factor may be defined differently depending on national annex and should be verified! Resistance determined by FEM without plate fixation. Resistances valid for both mounting variants (V1+V2).*

SPIDI® versa hanger profile AP 25.1

Aluminum extrusion profile EN AW 6063 T66 according to DIN EN 1999-1-1

f_{ok}	200	[N/mm²]	characteristic value of 0,2 % proof strength
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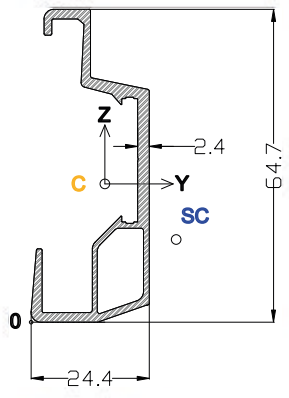

Geometric properties

A	254.00	[mm²]	cross-section
C_y	15.24	[mm]	distance of center of gravity in the Y-direction (reference from 0)
C_z	28.58	[mm]	distance of center of gravity in the Z-direction (reference from 0)

Moments of inertia

I_y	11.61	[cm⁴]	moment of inertia about the Y-axis
I_z	1.54	[cm⁴]	moment of inertia about the Z-axis

Shear properties

A_y	0.53	[cm²]	shear area in the Y-direction
A_z	1.08	[cm²]	shear area in the Z-direction
SC_y	14.70	[mm]	distance of shear center from the center of gravity in the Z-direction
SC_z	-11.60	[mm]	distance of shear center from the center of gravity in the Y-direction

Torsional properties

I_t	0.33	[cm⁴]	torsional moment of inertia

Cross-sectional resistances

$M_{x,Rd,el}$	0.0248*	[kNm]	elastic moment about the X-axis (torsional moment)
$M_{y,Rd,el}$	0.5466*	[kNm]	elastic moment about the Y-axis
$M_{z,Rd,el}$	0.1925*	[kNm]	elastic moment about the Z-axis
W_y	1,0587	[cm³]	elastic resistance moment about the Y-axis
W_z	3,0061	[cm³]	elastic resistance moment about the Z-axis
V_{yRd}	4.26	[kN]	ultimate shear force in the Y-direction
V_{zRd}	4.83	[kN]	ultimate shear force in the Z-direction

**=based on γ_{m1}=1.1 according to EN 1999-1-1. Note: Partial safety factor may be defined differently depending on national annex and should be verified!*

SLAVONIA

Austrian quality since 1893.

Your **SPIDI®** consultant and sales partner