

Rapid²⁺

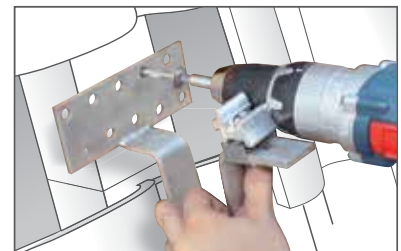
The quick and convenient mounting system for pitched roofs.

- Mounting time is considerably reduced
- Only 4 components (only little storage space required)
- Convenient assembly



Description

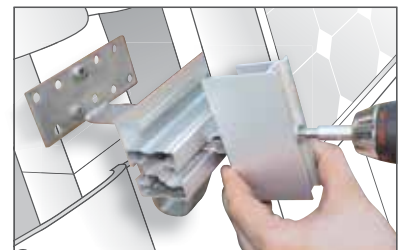
Rapid²⁺ makes mounting simple, safe, swift and uncomplicated like never before.



1 Mount the roof hooks



2 Hook in the rail and fasten it



3 Snap in the Rapid²⁺ - clamp and fasten it



4 Align the height-adjustable Rapid²⁺ - end clamp to the module height, snap it in and fasten it respectively use fixed end clamps.

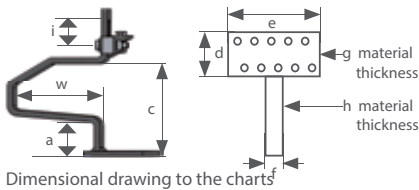
Application information

All four mounting steps can be carried out with only one tool (Torx TX40). Thanks to the high level of prefabrication of the components, you can save assembly time.

Carry out the mounting conveniently from above and even out roof unevennesses using height-adjustable roof hooks. The hook geometry also improves the structural values.

The Rapid²⁺ - module clamps can be adapted individually to the respective module height. You only have to store 4 different components. The system can be combined with all kinds of mounting rails.

*The terms of guarantee can be referenced at www.schletter.de/AGB_en.



Roof hooks Rapid²⁺

- Quality high-grade steel
- Welded

101001-000 Roof hook Rapid²⁺ 45

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 45 | 110 | 118 | 60 | 150 | 35 | 5 | 6 | 30 |
| inches | 1.77 | 4.33 | 4.65 | 2.36 | 5.91 | 1.38 | 0.20 | 0.24 | 1.18 |

Comparable to: Eco S 100004-000, 100004-001, 100009-000

101001-001 Roof hook Rapid²⁺ 45V

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 45 | 110 | 125 | 60 | 150 | 35 | 5 | 6 | 30 |
| inches | 1.77 | 4.33 | 4.92 | 2.36 | 5.91 | 1.38 | 0.20 | 0.24 | 1.18 |

As for 101001-000, but for vertical rail mounting
Comparable to: Eco S 100004-000, 100004-001, 100009-000

101002-000 Roof hook Rapid²⁺ 35

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 35 | 110 | 108 | 60 | 150 | 35 | 5 | 6 | 30 |
| inches | 1.38 | 4.33 | 4.25 | 2.36 | 5.91 | 1.38 | 0.20 | 0.24 | 1.18 |

As with 101001-000, but 35 mm / 1.38 inch bracket height for low battens
Comparable to: Eco S 100006-000

101003-000 Roof hook Rapid²⁺ 55

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 55 | 110 | 116 | 60 | 150 | 35 | 5 | 6 | 30 |
| inches | 2.17 | 4.33 | 4.57 | 2.36 | 5.91 | 1.38 | 0.20 | 0.24 | 1.18 |

As for 101001-000, but 55 mm / 2.17 inch bracket height for high battens or large tile formats

101004-000 Roof hook Rapid²⁺ Universal

| | a | b | c | d | e | f | g | h | i |
|--------|-----------|------|------|------|------|------|------|------|------|
| mm | 40-54 | 110 | 116 | 60 | 150 | 35 | 5 | 6 | 30 |
| inches | 1.57-2.13 | 4.33 | 4.57 | 2.36 | 5.91 | 1.38 | 0.20 | 0.24 | 1.18 |

Universally adjustable, for vertical rail mounting
Comparable to: Universal 100001-000

101005-000 Roof hook Rapid²⁺ Max

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 45 | 120 | 125 | 80 | 180 | 35 | 6 | 8 | 30 |
| inches | 1.77 | 4.72 | 4.92 | 3.15 | 7.09 | 1.38 | 0.24 | 0.31 | 1.18 |

Like 101001-000, but with 35x8 mm / 1.38x0.31 inch bar height for heavy snow loads
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001

101005-001 Roof hook Rapid²⁺ Max 150

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 43 | 150 | 125 | 80 | 180 | 35 | 6 | 8 | 30 |
| inches | 1.69 | 5.91 | 4.92 | 3.15 | 7.09 | 1.38 | 0.24 | 0.31 | 1.18 |

Like 101005-000, but with extended bar (size b) for large tile formats
Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001



101006-000 Roof hook Rapid²⁺ MaxV

| | a | b | c | d | e | f | g | h | i |
|--------|------|------|------|------|------|------|------|------|------|
| mm | 45 | 120 | 125 | 80 | 180 | 35 | 6 | 8 | 30 |
| inches | 1.77 | 4.72 | 4.92 | 3.15 | 7.09 | 1.38 | 0.24 | 0.31 | 1.18 |

As for 101005-000, but for vertical rail mounting

Comparable to: VaMax 100010-000, 100010-001, 100011-000, 100011-001

Rapid module clamps²⁺

Rapid²⁺ Module clamps, Alignment: Vertical

| Frame height mm | Anodized in black | | | | | | | |
|--------------------|-------------------|------------------------|-------------|---------------------------|------------|------------------------|--------------|---------------------------|
| | End clamp | End clamp Universal | Middleclamp | Grounding Middle clamp | End clamp | End clamp Universal | Middle clamp | Grounding Middle clamp |
| 30 | 131001-030 | 131002-000 | 131003-000 | 135002-000 | 131001-930 | 131002-900 | 131003-900 | 135002-900 |
| 31 | 131001-031 | 131002-000 | 131003-000 | 135002-000 | 131001-931 | 131002-900 | 131003-900 | 135002-900 |
| 32 | | 131002-000 | 131003-000 | 135002-000 | | 131002-900 | 131003-900 | 135002-900 |
| 33 | 131001-033 | 131002-000 | 131003-000 | 135002-000 | 131001-933 | 131002-900 | 131003-900 | 135002-900 |
| 34 | 131001-034 | 131002-000 | 131003-000 | 135002-000 | 131001-934 | 131002-900 | 131003-900 | 135002-900 |
| 35 | 131001-035 | 131002-000 | 131003-000 | 135002-000 | 131001-935 | 131002-900 | 131003-900 | 135002-900 |
| 36 | 131001-036 | 131002-000 | 131003-000 | 135002-000 | 131001-936 | 131002-900 | 131003-900 | 135002-900 |
| 37 | 131001-037 | 131002-000 | 131003-000 | 135002-000 | | 131002-900 | 131003-900 | 135002-900 |
| 38 | 131001-038 | 131002-000 | 131003-000 | 135002-000 | 131001-938 | 131002-900 | 131003-900 | 135002-900 |
| 39 | | 131002-000 | 131003-000 | 135002-000 | | 131002-900 | 131003-900 | 135002-900 |
| 40 | 131001-040 | 131002-001 | 131003-001 | 135002-001 | 131001-940 | 131002-901 | 131003-901 | 135002-901 |
| 41 | 131001-041 | 131002-001 | 131003-001 | 135002-001 | | 131002-901 | 131003-901 | 135002-901 |
| 42 | 131001-042 | 131002-001 | 131003-001 | 135002-001 | 131001-942 | 131002-901 | 131003-901 | 135002-901 |
| 43 | | 131002-001 | 131003-001 | 135002-001 | 131001-943 | 131002-901 | 131003-901 | 135002-901 |
| 44 | 131001-044 | 131002-001 | 131003-001 | 135002-001 | | 131002-901 | 131003-901 | 135002-901 |
| 45 | 131001-045 | 131002-001 | 131003-001 | 135002-001 | 131001-945 | 131002-901 | 131003-901 | 135002-901 |
| 46 | 131001-046 | 131002-001 | 131003-001 | 135002-001 | 131001-946 | 131002-901 | 131003-901 | 135002-901 |
| 47 | | 131002-001 | 131003-001 | 135002-001 | | 131002-901 | 131003-901 | 135002-901 |
| 48 | | 131002-001 | 131003-001 | 135002-001 | | 131002-901 | 131003-901 | 135002-901 |
| 49 | | 131002-001 | 131003-001 | 135002-001 | | 131002-901 | 131003-901 | 135002-901 |
| 50 | 131001-050 | 131002-001 | 131003-001 | 135002-001 | 131001-950 | 131002-901 | 131003-901 | 135002-901 |

Alignment: Horizontal (linear clamping: Clamping wedge turned by 90°)

| | | | | | | | | |
|----|------------|------------|------------|------------|------------|------------|------------|------------|
| 30 | | 131011-000 | 131012-000 | | | | | |
| 31 | 131010-031 | 131011-000 | 131012-000 | | | | | |
| 32 | | 131011-000 | 131012-000 | | | | | |
| 33 | | 131011-000 | 131012-000 | | | | | |
| 34 | | 131011-000 | 131012-000 | | | | | |
| 35 | 131010-035 | 131011-000 | 131012-000 | | | | | |
| 36 | | 131011-000 | 131012-000 | | | | | |
| 37 | | 131011-000 | 131012-000 | | | | | |
| 38 | 131010-038 | 131011-000 | 131012-000 | | | | | |
| 39 | 131010-039 | 131011-000 | 131012-000 | | | | | |
| 40 | 131010-040 | 131011-001 | 131012-001 | 135011-001 | 131010-940 | 131011-901 | 131012-901 | 135011-901 |
| 41 | | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 42 | 131010-042 | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 43 | | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 44 | | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 45 | 131010-045 | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 46 | 131010-046 | 131011-001 | 131012-001 | 135011-001 | 131010-946 | 131011-901 | 131012-901 | 135011-901 |
| 47 | 131010-047 | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 48 | | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 49 | | 131011-001 | 131012-001 | 135011-001 | | 131011-901 | 131012-901 | 135011-901 |
| 50 | 131010-050 | 130011-001 | 131012-001 | 135011-001 | 131010-950 | 131011-901 | 131012-901 | 135011-901 |

Mounting information for Rapid²⁺ clamps

The Schletter company recommends not to use a tightening torque of more than 12-14 Nm to fasten the clamp. Cordless screwdrivers as well as overlong Allen wrenches **must not be used to fasten the clamps**.

If you want to use a cordless screwdriver, please ask the manufacturer for information about the tightening torques that are created with the different settings of the screwdriver. If the tightening torque is too high, the module frame and the clamps might be damaged.

Examples

- An impact wrench has a maximum torque of 145 Nm and is not suitable for the fastening of screws.
- A cordless screwdriver has a maximum torque of 16 Nm and can be adjusted in steps.



Do not use extended Allen keys!



Only with a limitation to 12-14 Nm!



Do not use impact wrenches!



Do not use ratchets!

Disassembly

To disassemble the module clamp, please loosen the screw and carefully pull up the module clamp by hand at the same time until it is completely unscrewed and can be removed.

Technical data

| | |
|----------------------------|---|
| Material | Roof hooks and screws: Stainless steel 1.4301; KlickTop and clamps: Aluminium |
| Planning aid | Configuration and structural dimensioning with the AutoCalculator Easy and the Schletter Configurator. |
| Structural analysis | Structural analysis in accordance with current national standards (in Germany DIN EN 1991, EC1). Structural analysis annex for the dimensioning of the amount of required ballast. Always observe the structural analysis information! |

Further information at: www.schletter.eu.