

Solar energy systems

Information sheet: Solrif® N

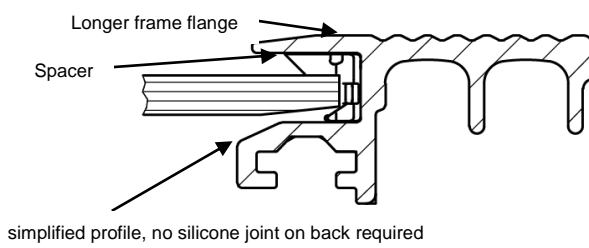
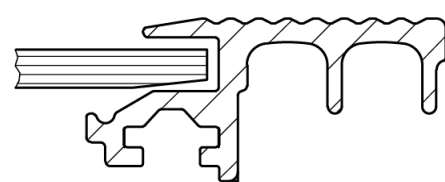
1. Abstract

Solrif® N is an enhanced revision of the successful Solrif® XL product. The frame channel has been optimised for glass-film laminates using up to 4 mm thick glass and for double-glass laminates using up to 2.2 mm thick glass layers. Solrif® N is also suitable for glass-film laminates using 3.2 mm glass and is compatible with Solrif® XL. Solrif® N will eventually supersede Solrif® XL.

Main features and benefits:

- Accurate positioning of laminates in the frame channel, aided by spacers
- Defined space between glass and aluminium increases useful life
- Improved structural reliability and water-tightness, also after extreme loads
- Longer frame flange increases adhered surface
- Improved handling of laminate tolerances
- No longer requires extra silicone joint on back side
- Less cleaning effort thanks to defined propagation of silicone
- Modules can cure in any position and may be stacked and packed right away
- Compatible with Solrif® XL

2. Solrif® N and Solrif® XL side by side

Solrif® N	
Solrif® XL	

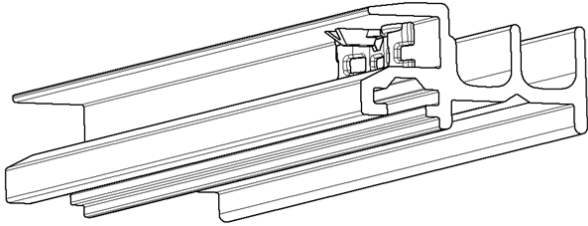
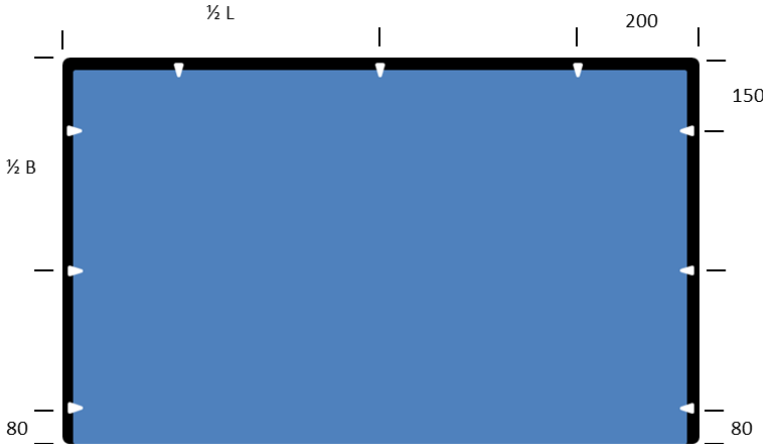

3. Suitable laminates

Solrif® N	Glass-film laminates up to 5.2 mm thick, measured 6 mm inward from edge (glass thickness up to 4.0 mm) Double-glass modules up to 5.2 mm thick, measured 6 mm inward from edge (glass thickness up to 2.2 mm each)
Solrif® XL	Glass-film laminates up to 5.2 mm thick, measured 6 mm inward from edge (glass thickness up to 4.0 mm)
Solrif® D	Double-glass modules up to 8.0 mm thick, measured 6 mm inward from edge. Solrif® D is similar though not compatible with Solrif® N or Solrif® XL

Solar energy systems

Information sheet: Solrif® N

4. Spacers and positioning of spacers

	<p>Spacers</p> <p>Spacers ensure a defined and consistent silicone adhesion on the front between glass and aluminium. Spacers must be inserted the right way round.</p>
	<p>How to position spacers</p> <p>Insert 3 spacers each in Solrif® N top, right and left profiles before dispensing silicone. Spacers should be positioned approximately as outlined in the figure, +/- 30 mm.</p>
	<p>Spacers can be inserted into frame channel easily for instance using a spatula.</p> <p>A simple rack for a number of profiles with marks for the spacer positions can streamline the task and save time.</p>

Solar energy systems

Information sheet: Solrif® N

5. Additional guidelines

Frame assembly

Frame assembly is the same for Solrif® N as Solrif® XL. Joints and fasteners are the same (angle plates 33938, groove nuts 33939, screws 60018). Solrif® N and Solrif® XL are compatible. However, the extra silicone joint on the back side is no longer required.

Mounting clamps profile

Mounting clamps profile for Solrif® N are the same as for Solrif® XL (part numbers 13318 / 06497 / 19092).

Mounting clamps glass

Due to the slightly different positioning of the laminate versus frame, Schweizer is offering a specifically modified mounting clamp glass (part number 52010 for both uncoated and black). This mounting clamp glass is 1.2 mm flatter than the previous clamp and can be used to rule out any possible rattling noise caused by wind.

Bill of material for frame kit

Part number	Qty	Description	
Depend on laminate size	1	Profile top (laminate length), alum. raw/coated	Solrif® N
	1	Profile left (laminate width), alum. raw/coated	Solrif® N
	1	Profile right (laminate width), alum. raw/coated	Solrif® N
	1	Profile bottom (laminate length), alum. raw/coated	Solrif® N
18521	2	Angle plate with screws 50x50x2	Solrif® XL/N/D
14613	2	Groove nut 10x28x2	Solrif® XL/N/D
60018	2	Recessed countersunk flat head screw M4x6 A2	Solrif® XL/N/D
18522	2	Grounding Screw M4 x 5 A2	Solrif® XL/N/D
33979	Dep. on lam. length	EPDM sealing profile	Solrif® XL/N/D
52000	9	Spacer	Solrif® N

6. Technical support

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