



Approved Retaining Clips for FS modules

<u>Clip Description & Supplier Contact</u>	<u>First Solar Approval Document #</u>
Schletter ECO6 Schletter GmbH Heimgartenstrasse 41, 83527 Haag i. OB, Germany	PD-5-321-01 <i>Clip Length: 70mm</i>
<ul style="list-style-type: none"> Blitzstrom Modulclip Blitzstrom GmbH Wadenbrunner Str. 10, 97509 Koltzheim, Germany 	PD-5-321-07 <i>Clip Length: 70mm</i>
<ul style="list-style-type: none"> Alumero Laminat Click Alumero GmbH Rosenweg 22, 5164 Seeham, Austria 	PD-5-321-08 <i>Clip Length: 100mm</i>
Habdank FA0X Habdank Metallbau GmbH & Co. KG Heinrich-Landerer-Str. 62, 73037 Göppingen, Germany	PD-5-321-10 <i>Clip Length: 60mm</i>
<ul style="list-style-type: none"> Donauer INTERSOL-Laminatklemme Donauer Solartechnik Vertriebs GmbH Zeppelinstrasse 10, 82205 Gilching, Germany 	PD-5-321-11 <i>Clip Length: 100mm</i>
<ul style="list-style-type: none"> Schletter Click Connection Schletter GmbH Heimgartenstrasse 41, 83527 Haag i. OB, Germany 	PD-5-321-13 <i>Clip Length: 65mm</i>
<ul style="list-style-type: none"> Gehrtec Laminatklemme-FS Gehrlicher Solar AG Max-Planck-Straße 3, 85609 Dornach, Germany 	PD-5-321-14 <i>Clip Length: 80mm</i>
<ul style="list-style-type: none"> Schüco-Clip Schüco International KG Karolinenstraße 1-15, 33609 Bielefeld, Germany 	PD-5-321-15 <i>Clip Length: 80mm</i>
<ul style="list-style-type: none"> ALuTec FL !!! Only approved for inverters with galvanic isolation and negative grounding!!! Creotecc GmbH Sasbacher Straße 9, 79111 Freiburg, Germany 	PD-5-321-16
<ul style="list-style-type: none"> Phoenix Solar Clip Phoenix Solar AG Hirschberstraße 8, 85254 Sulzemoos, Germany 	PD-5-321-17 <i>Clip Length: 80mm</i>
<ul style="list-style-type: none"> Schüco LC Light Schüco International KG Karolinenstraße 1-15, 33609 Bielefeld, Germany 	PD-5-321-18 <i>Clip Length: 70mm</i>
<ul style="list-style-type: none"> Conergy SunTop III Clip Conergy AG Anckelmannsplatz 1, 20537 Hamburg, Germany 	PD-5-321-19 <i>Clip Length: 80mm</i>

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- **SolTec** **PD-5-321-20**
Soltech GmbH *Clip Length: 95mm*
Rachheide 12, 33739 Bielefeld, Germany
 - **RegTec** **PD-5-321-21**
RegTec GmbH *Clip Length: 80mm*
Gräfenbergstraße 4, 97859 Wiesthal, Germany
 - **VM-Edelstahltechnik** **PD-5-321-23**
VM Edelstahltechnik GmbH *Clip Length: 80mm*
Bannewerthstraße 6, 58840 Plettenberg, Germany
 - **HatiCon AK-SP** **PD-5-321-26**
HatiCon GmbH *Clip Length: 100mm*
Ackerstr. 4, 16303 Schwedt, Germany
Clip Length: 100mm
 - **Hilti Clip** **PD-5-321-29**
Hilti Deutschland GmbH *Clip Length: 80mm*
Hiltistraße 2, 86916 Kaufring, Germany
 - **MP-TEC Clip** **PD-5-321-30**
MP-TEC GmbH & Co.KG *Clip Length: 70mm*
Wilhelm-Conrad-Röntgen-Str. 10-12, 16225 Eberswalde, Germany
 - **GSG Clip** **PD-5-321-31**
GSG Ingenieurbüro und Photovoltaik GmbH *Clip Length: 70mm*
Bautzener Straße 40, 02956 Rietschen, Germany
 - **Gehrtec Laminatklemmen FS A3** **PD-5-321-32**
Gehrlicher Solar AG *Clip Length: 80mm*
Max-Planck-Straße 3, 85609 Dornach, Germany
 - **Gehrtec Laminatklemmen Base FS** **PD-5-321-33**
Gehrlicher Solar AG *Clip Length: 80mm*
Max-Planck-Straße 3, 85609 Dornach, Germany
 - **Gehrtec Laminatklemmen Top FS** **PD-5-321-34**
Gehrlicher Solar AG *Clip Length: 80mm*
Max-Planck-Straße 3, 85609 Dornach, Germany
 - **HatiCon AK-SP 80mm** **PD-5-321-35**
HatiCon GmbH *Clip Length: 80mm*
Ackerstr. 4, 16303 Schwedt, Germany
 - **CTS C-0002-00** **PD-5-321-38**
Blitzstrom GmbH *Clip Length: 70mm*
Wadenbrunner Str. 10, 97509 Koltitzheim, Germany
 - **MK-A C-0002-00** **PD-5-321-39**
Jurchen Technology GmbH *Clip Length: 70mm*
Prinz-Ludwig-Straße 5, 97264 Helmstadt, Germany

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- **Laminat SECURITAS** **PD-5-321-40**
 Alumero GmbH *Clip Length: 70mm*
 Rosenweg 22, 5164 Seeham, Austria
 - **PVStrom Omega FS** **PD-5-321-41**
 PVStrom GmbH & Co. KG *Clip Length: 80mm*
 Strombergstr. 3, 74366 Kirchheim am Neckar, Germany
 - **Apollon Clip** **PD-5-321-42**
 Apollon s.r.l. *Clip Length: 80mm*
 Via Guarneri 79, 47023 Cesena (FC), Italy
 - **VM Edelstahltechnik Mono Modulclip** **PD-5-321-44**
 VM Edelstahltechnik GmbH *Clip Length: 70mm*
 Bannewerthstraße 6, 58840 Plettenberg, Germany
 - **Fath Laminatklemme** **PD-5-321-45**
 Fath GmbH *Clip Length: 80mm*
 Gewerbepark Hügelmühle, 91174 Spalt, Germany
 - **SAPA - Double Face FS Clip 80mm (two parts)** **PD-5-321-47**
 SAPA Profiles Albi *Clip Length: 80mm*
 ZA du Garric, 81450 Le Garric, France
 - **SAPA - Double Face FS Clip 100mm (two parts)** **PD-5-321-48**
 SAPA Profiles Albi *Clip Length: 100mm*
 ZA du Garric, 81450 Le Garric, France
 - **SAPA - Double Face FS Clip 150mm (two parts)** **PD-5-321-49**
!!! Only approved for inverters with galvanic isolation and negative grounding!!! *Clip Length: 150mm*
 SAPA Profiles Albi
 ZA du Garric, 81450 Le Garric, France
 - **SAPA - Double Face FS Clip 80mm (one part)** **PD-5-321-50**
 SAPA Profiles Albi *Clip Length: 80mm*
 ZA du Garric, 81450 Le Garric, France
 - **SAPA - Double Face FS Clip 100mm (one part)** **PD-5-321-51**
 SAPA Profiles Albi *Clip Length: 100mm*
 ZA du Garric, 81450 Le Garric, France
 - **SAPA - Double Face FS Clip 150mm (one part)** **PD-5-321-52**
!!! Only approved for inverters with galvanic isolation and negative grounding!!! *Clip Length: 150mm*
 SAPA Profiles Albi
 ZA du Garric, 81450 Le Garric, France
 - **CWF-Clip FS-G2** **PD-5-321-53**
 CWF GmbH *Clip Length: 70mm*
 Holunderweg 19, 74547 Enslingen, Germany
 - **Mounting Systems Laminat Clip** **PD-5-321-54**
 Mounting Systems GmbH *Clip Length: 80mm*
 Mittenwalder Straße 9a, 15834 Rangsdorf, Germany

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- **Conergy Laminat Clip** **PD-5-321-55**
 Conergy AG
 Anckelmannsplatz 1, 20537 Hamburg, Germany
Clip Length: 80mm
 - **GSG FastClip** **PD-5-321-56**
 GSG Ingenieurbüro und Photovoltaik GmbH
 Bautzener Straße 40, 02956 Rietschen, Germany
Clip Length: 80mm
 - **SolBau All-Fix Laminatklemmen** **PD-5-321-57**
 SolBau GmbH & Co. KG
 Osttor 2, 48165 Bielefeld, Germany
Clip Length: 80mm
 - **Haticon Laminatklemme AK Klick** **PD-5-321-59**
 HatiCon GmbH
 Ackerstr. 4, 16303 Schwedt, Germany
Clip Length: 80mm
 - **Schüco MSE 200 LaminatSmallClip** **PD-5-321-60**
 Schüco International KG
 Karolinenstraße 1-15, 33609 Bielefeld, Germany
Clip Length: 70mm
 - **VM Edelstahltechnik Mono FK** **PD-5-321-61**
 VM Edelstahltechnik GmbH
 Bannewerthstraße 6, 58840 Plettenberg, Germany
Clip Length: 80mm
 - **AWS FS-MMK80** **PD-5-321-64**
 Aluminumwerk Schönebeck
 Industriestr. 6, 39218 Schönebeck, Germany
Clip Length: 80mm
 - **Montavent Laminat** **PD-5-321-65**
 Montavent GmbH
 Limmatstr. 31, 8005 Zürich, Switzerland
Clip Length: 80mm
 - **VM Edelstahltechnik Laminatklemme N** **PD-5-321-67**
 VM Edelstahltechnik GmbH
 Bannewerthstraße 6, 58840 Plettenberg, Germany
Clip Length: 80mm
 - **Energy Resources ER Clip and Rail system** **PD-5-321-68**
 Energy Resources
 Via primo maggio 26, 60131 Ancona, Italy
Clip Length: 100mm
 - **RegTec ReLight** **PD-5-321-69**
 RegTec GmbH
 Gräfenbergstr. 4, 97859 Woesthal, Germany
Clip Length: 80mm
 - **PVStrom Omega FS II Modulclip** **PD-5-321-70**
 PVStrom Energy Systems GmbH & Co. KG
 Strombergstr. 3, 74366 Kirchheim a. Neckar, Germany
Clip Length: 80mm
 - **PVStrom Omega FS III Modulclip** **PD-5-321-71**
 PVStrom Energy Systems GmbH & Co. KG
 Strombergstr. 3, 74366 Kirchheim a. Neckar, Germany
Clip Length: 80mm
 - **Sikla PVG** **PD-5-321-72**
 Sikla GmbH
 In der Lache 17, 78056 VS-Schwenningen, Germany
Clip Length: 80mm

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- **SAPA Raised SAPA Clamp**
SAPA Profiles Albi
ZA du Garric, 81450 Le Garric, France
PD-5-321-73
Clip Length: 80mm
 - **Mage SunFIXINGS Glasmittelklemme**
Mage SunFIXINGS GmbH
Industriepark Ost 2-3, 9111 Heimbürg, Austria
PD-5-321-75
Clip Length: 80mm
 - **Helios MH I / II**
Helios Energie GmbH
Institut Garnier Nr. 4, 61381 Friedrichsdorf, Germany
PD-5-321-77
Clip Length: 80mm
 - **Juwi FS LS V1**
juwi R & D Research & Development GmbH & Co. KG
Energie-Allee 1, 55286 Wörrstadt, Germany
PD-5-321-78
Clip Length: 80mm
 - **Sorgenia IMC-1200-FS-AR**
Sorgenia Solar
Via Enrico Ortolani 109, 00125 – Roma, Italy
PD-5-321-79
Clip Length: 80mm
 - **K2 Grid**
K2 Systems GmbH
Riedwiesenstr. 13-17, 71229 Leonberg, Germany
PD-5-321-80
Clip Length: 80mm
 - **Alumati LEA**
Alumati Aluminiumservice GmbH
Gewerbestr. 2, 5201 Seekirchen am Wallersee, Austria
PD-5-321-81
Clip Length: 75mm
 - **Gehrlicher Gehrtec Intra**
!!! Only approved for inverters with galvanic isolation and negative grounding!!!
Gehrlicher Solar AG
Max-Planck-Str. 3, 85609 Dornach, Germany
PD-5-321-82
 - **Terrafix Moduldoppelklemme**
Terrafix GmbH
Dr.-Gryll-Str. 9, 84051 Essenbach/Altheim, Germany
PD-5-321-84
Clip Length: 80mm
 - **Habdank MK-1-80 / RK-1-80**
Habdank PV-Montagesysteme GmbH & Co. KG
Heinrich-Landerer Strasse 66, 73037 Göppingen, Germany
PD-5-321-85
Clip Length: 80mm