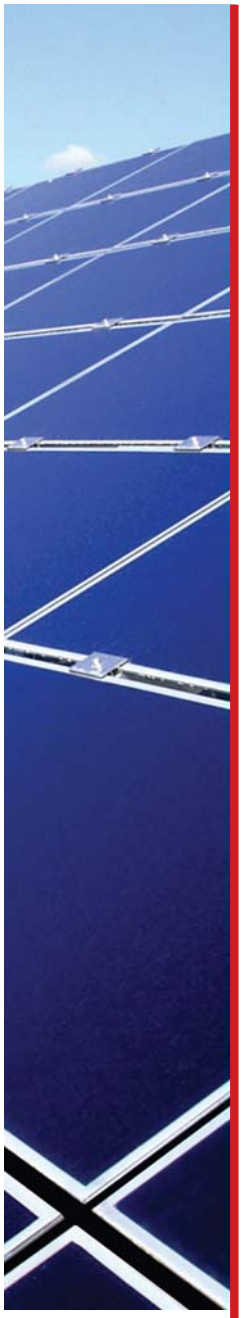

Approved Retaining Clips for FS modules

Clip Description & Supplier Contact	First Solar Approval Document #
• **Schletter ECO6** Schletter GmbH Heimgartenstrasse 41, 83527 Haag i. OB, Germany	**PD-5-321-01** ***Clip Length: 70mm***
• **Belectric Modulclip** Belectric Trading GmbH Wadenbrunner Str. 10, 97509 Kolitzheim, Germany	**PD-5-321-07** ***Clip Length: 70mm***
• **Alumero Laminat Click** Alumero GmbH Rosenweg 22, 5164 Seeham, Austria	**PD-5-321-08** ***Clip Length: 100mm***
• **Habdank FA0X** Habdank Metallbau GmbH & Co. KG Heinrich-Landerer-Str. 62, 73037 Göppingen, Germany	**PD-5-321-10** ***Clip Length: 60mm***
• **Donauer INTERSOL-Laminatklemme** Donauer Solartechnik Vertriebs GmbH Zeppelinstrasse 10, 82205 Gilching, Germany	**PD-5-321-11** ***Clip Length: 100mm***
• **Schletter Click Connection** Schletter GmbH Heimgartenstrasse 41, 83527 Haag i. OB, Germany	**PD-5-321-13** ***Clip Length: 65mm***
• **Gehrtec Laminatklemme-FS** Gehrlicher Solar AG Max-Planck-Straße 3, 85609 Dornach, Germany	**PD-5-321-14** ***Clip Length: 80mm***
• **Schüco-Clip** Schüco International KG Karolinenstraße 1-15, 33609 Bielefeld, Germany	**PD-5-321-15** ***Clip Length: 80mm***
• **ALuTec FL** **!!! Only approved for inverters with galvanic isolation and negative grounding!!!** Creotecc GmbH Sasbacher Straße 9, 79111 Freiburg, Germany	**PD-5-321-16**
• **Phoenix Solar Clip** Phoenix Solar AG Hirschberstraße 8, 85254 Sulzemoos, Germany	**PD-5-321-17** ***Clip Length: 80mm***
• **Schüco LC Light** Schüco International KG Karolinenstraße 1-15, 33609 Bielefeld, Germany	**PD-5-321-18** ***Clip Length: 70mm***
• **Conergy SunTop III Clip** Conergy AG Anckelmannsplatz 1, 20537 Hamburg, Germany	**PD-5-321-19** ***Clip Length: 80mm***

- **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

- **Hilti Clip** — **PD-5-321-29**
  Hilti Corporation — ***Clip Length: 80mm***
  Feldkircherstrasse 100, 9494 Schaan, Liechtenstein

- **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**
  Belectric Trading GmbH — ***Clip Length: 70mm***
  Wadenbrunner Str. 10, 97509 Kolitzheim, Germany

- **MK-A C-0002-00** — **PD-5-321-39**
  Jurchen Technology GmbH — ***Clip Length: 70mm***
  Prinz-Ludwig-Straße 5, 97264 Helmstadt, Germany

- **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!!!
  SAPA Profiles Albi *Clip Length: 150mm*
  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!!!
  SAPA Profiles Albi *Clip Length: 150mm*
  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

- **Conergy Laminat Clip** — **PD-5-321-55**
  Conergy AG — *Clip Length: 80mm*
  Anckelmannsplatz 1, 20537 Hamburg, Germany

- **GSG FastClip** — **PD-5-321-56**
  GSG Ingenieurbüro und Photovoltaik GmbH — *Clip Length: 80mm*
  Bautzener Straße 40, 02956 Rietschen, Germany

- **SolBau All-Fix Laminatklemmen** — **PD-5-321-57**
  SolBau GmbH & Co. KG — *Clip Length: 80mm*
  Osttor 2, 48165 Bielefeld, Germany

- **Laminatklemme AK Klick** — **PD-5-321-59**
  HatiCon GmbH — *Clip Length: 80mm*
  Ackerstr. 4, 16303 Schwedt, Germany

- **Schüco MSE 200 LaminateSmallClip** — **PD-5-321-60**
  Schüco International KG — *Clip Length: 70mm*
  Karolinenstraße 1-15, 33609 Bielefeld, Germany

- **Mono FK** — **PD-5-321-61**
  VM Edelstahltechnik GmbH — *Clip Length: 80mm*
  Bannewerthstraße 6, 58840 Plettenberg, Germany

- **AWS FS-MMK80** — **PD-5-321-64**
  Aluminumwerk Schönebeck — *Clip Length: 80mm*
  Industriestr. 6, 39218 Schönebeck, Germany

- **Montavent Laminat** — **PD-5-321-65**
  Montavent GmbH — *Clip Length: 80mm*
  Limmatstr. 31, 8005 Zürich, Switzerland

- **Laminatklemme N** — **PD-5-321-67**
  VM Edelstahltechnik GmbH — *Clip Length: 80mm*
  Bannewerthstraße 6, 58840 Plettenberg, Germany

- **ER Clip and Rail system** — **PD-5-321-68**
  Energy Resources SpA — *Clip Length: 100mm*
  Via primo maggio 26, 60131 Ancona, Italy

- **RegTec ReLight** — **PD-5-321-69**
  RegTec GmbH — *Clip Length: 80mm*
  Gräfenbergstr. 4, 97859 Woesthal. Germany

- **PVStrom Omega FS II Modulclip** — **PD-5-321-70**
  PVStrom Energy Systems GmbH & Co. KG — *Clip Length: 80mm*
  Strombergstr. 3, 74366 Kirchheim a. Neckar, Germany

- **PVStrom Omega FS III Modulclip** — **PD-5-321-71**
  PVStrom Energy Systems GmbH & Co. KG — *Clip Length: 80mm*
  Strombergstr. 3, 74366 Kirchheim a. Neckar, Germany

- **PVG** — **PD-5-321-72**
  Sikla GmbH — *Clip Length: 80mm*
  In der Lache 17, 78056 VS-Schwenningen, Germany

- **Raised SAPA Clamp** **PD-5-321-73**
  SAPA Profiles Albi *Clip Length: 80mm*
  ZA du Garric, 81450 Le Garric, France

- **Glasklemmen 6,8mm** **PD-5-321-75**
  MAGE SunFIXINGS GmbH *Clip Length: 80mm*
  Industriepark Ost 2-3, 9111 Haimburg, Austria

- **Helios MH I / II** **PD-5-321-77**
  Helios Energie GmbH *Clip Length: 80mm*
  Institut Garnier Nr. 4, 61381 Friedrichsdorf, Germany

- **FS LS V1** **PD-5-321-78**
  juwi R & D Research & Development GmbH & Co. KG *Clip Length: 80mm*
  Energie-Allee 1, 55286 Wörrstadt, Germany

- **IMC-1200-FS-AR** **PD-5-321-79**
  Sorgenia Solar S.r.L. *Clip Length: 80mm*
  Via Enrico Ortolani 109, 00125 – Roma, Italy

- **K2 Grip** **PD-5-321-80**
  K2 Systems GmbH *Clip Length: 80mm*
  Riedwiesenstr. 13-17, 71229 Leonberg, Germany

- **LEA** **PD-5-321-81**
  Alumati Aluminiumservice GmbH *Clip Length: 75mm*
  Gewerbestrasse 2, 5201 Seekirchen am Wallersee, Austria

- **Gehrtec Intra** **PD-5-321-82**
  !!! Only approved for inverters with galvanic isolation and negative grounding!!!
  Gehrlicher Solar AG
  Max-Planck-Str. 3, 85609 Dornach, Germany

- **Terrafix Moduldoppelklemme** **PD-5-321-84**
  Terrafix GmbH *Clip Length: 80mm*
  Dr.-Gryll-Str. 9, 84051 Essenbach/Altheim, Germany

- **Modulklemme MK-1-80 / RK-1-80** **PD-5-321-85**
  Habdank PV-Montagesysteme GmbH & Co. KG *Clip Length: 80mm*
  Heinrich-Landerer Strasse 66, 73037 Göppingen, Germany

- **Laminat-Clip** **PD-5-321-86**
  Benz Alusysteme GmbH *Clip Length: 100mm*
  Im Staffelrain 5, 74379 Ingersheim, Germany

- **Benzlaminatsystem** **PD-5-321-88**
  Benz Alusysteme GmbH *Clip Length: 100mm*
  Im Staffelrain 5, 74379 Ingersheim, Germany

- **MSP-TF-MC 6.8 middle clamp / MSP-TF-MC 6.8 end clamp** **PD-5-321-89**
  Hilti Corporation *Clip Length: 80mm*
  Feldkircherstrasse 100, 9494 Schaan, Liechtenstein

- **GMS** **PD-5-321-90**
  Montagebau Karl Göbel *Clip Length: 70mm*
  Pfaffenmühlweg 86, 74613 Öhringen, Germany

- **Benz Laminat V1** **PD-5-321-94**
  Benz Alusysteme GmbH *Clip Length: 100mm*
  Im Staffelrain 5, 74379 Ingersheim, Germany

- **Benz Laminat Clamp V1** **PD-5-321-95**
  Benz Alusysteme GmbH *Clip Length: 100mm*
  Im Staffelrain 5, 74379 Ingersheim, Germany

- **Gehrtec Laminatklemmen** **PD-5-321-96**
  Gehrlicher Solar AG *Clip Length: 75mm*
  Max-Planck-Str. 3, 85609 Dornach, Germany

- **Laminatklemme Pro** **PD-5-321-100**
  MP-TEC GmbH Co. KG *Clip Length: 80mm*
  Wilhelm-Conrad-Röntgen-Str. 10, 16225 Eberswalde, Germany

- **ACME FS module mounting clips** **PD-5-321-101**
  ACME Tele Power Ltd *Clip Length: 80mm*
  Plot No.2, Sector – 34, 122001 Gurgaon, India

- **BD7 Clamp (120)** **PD-5-321-102**
  !!! Only approved for inverters with galvanic isolation and negative grounding!!!
  Solarstem *Clip Length: 120mm*
  c/Cal Ros dels Ocells 20, 08403 Granollers, Spain

- **BD7 Clamp (100)** **PD-5-321-103**
  Solarstem *Clip Length: 100mm*
  c/Cal Ros dels Ocells 20, 08403 Granollers, Spain

- **MSP-TF-MC 6.8 100 middle clamp / end clamp** **PD-5-321-104**
  Hilti Corporation *Clip Length: 100mm*
  Feldkircherstrasse 100, 9494 Schaan, Liechtenstein

- **ER overlapping profiles** **PD-5-321-105**
  !!! Only approved for inverters with galvanic isolation and negative grounding!!!
  Energy Resources SpA
  Via primo maggio 26, 60131 Ancona, Italy

- **Montavent Laminat 2** **PD-5-321-107**
  Montavent GmbH *Clip Length: 80mm*
  Limmatstr. 31, 8005 Zürich, Switzerland

- **AmbiLight** **PD-5-321-108**
  AmbiVolt GmbH *Clip Length: 80mm*
  Ahornstr. 8, 85716 Unterschleißheim, Germany

- **MIA** **PD-5-321-109**
  Alumati Aluminiumservice GmbH *Clip Length: 75mm*
  Gewerbestrasse 2, 5201 Seekirchen am Wallersee, Austria

- **MSP-TF-MC 6.8 65 middle clamp / end clamp** **PD-5-321-110**
  Hilti Corporation *Clip Length: 65mm*
  Feldkircherstrasse 100, 9494 Schaan, Liechtenstein

- **FS LS Gen1 V4** **PD-5-321-113**
  juwi R & D Research & Development GmbH & Co. KG *Clip Length: 80mm*
  Energie-Allee 1, 55286 Wörrstadt, Germany

- **Schüco MSE 210 Laminatklemmhalter** **PD-5-321-114**
  Schüco International KG *Clip Length: 70mm*
  Karolinenstraße 1-15, 33609 Bielefeld, Germany