



BIPVco process from estimate to ordering

In order to receive an estimate for your solar integrated roof system costs and design options, planning drawings should be sent to BIPVco. Once we have received these we can estimate the potential size of the PV system, its potential output in kWh per annum according to your location and the roof orientation, and the costs associated with the supply of the materials only.

Planning, pre-ordering

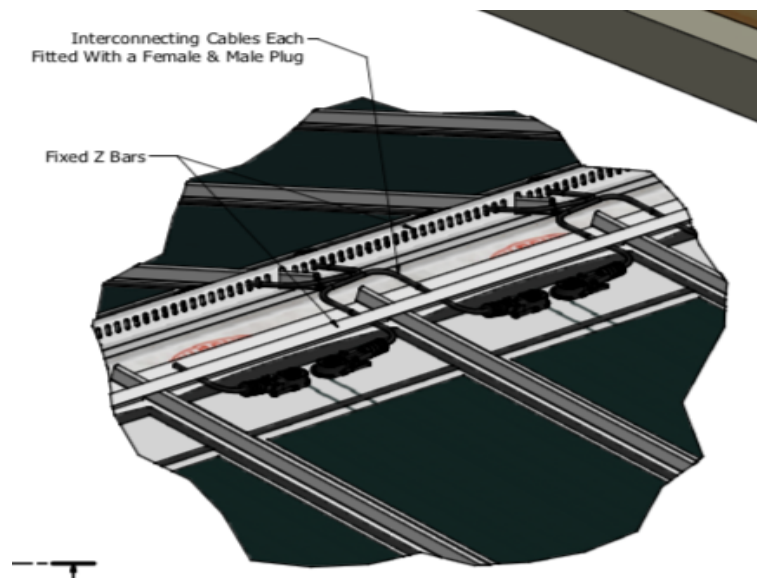
Roof considerations

- Do you already know what the roof type you plan to use? If so, do you have an approved contractor lined up? BIPVco products can be applied to many substrates such as steel, aluminium, zinc, TPO and EPDM, but not all are tested and approved. Here's a list of our currently approved range of roofing products–
 - Kalzip, aluminium
 - Catnic (Tata), steel
 - Bradclad, steel, aluminium, zinc
 - Euroclad Vieo
 - Rubberfuse, TPO
 - Prodek, EPDM
- If you are looking to maximise the PV system capacity on a metal standing seam roof, you will need to specify a 390mm (seam to seam width) panel. Otherwise, you can specify wider panels. There are installation and cost advantages to working with a wider panel. Please speak with your BIPVco rep about this.
- BIPVco work with Tata Steel's Colorcoat Prisma paint system on Catnic/Urban products. Our products cannot be laminated on to the Plastisol based paint systems such as HPS200 due to plasticiser migration, so you must specify the Prisma paint system when considering a BIPVco solar integrated roof system on steel roofs.
- PVDF paint system on aluminium substrate such as that used by Kalzip is also approved.

PV system considerations

- Is your potential system size under 4kWp? If not, do you have DNO? Please [see here for further information](#)
- Do you have an MCS contractor in place? If not, who is installing your electrics and connecting your system to the grid?

- BIPVco Flextron solar modules are connected by using 50cm long MC4 male/female daisy-chain cables from one module to another along a row.



- If there is more than one column of modules, the interconnect cables will be grouped together at the end of each row. Depending on the length of each string of modules, diode protected junction boxes can be used for this purpose.
- Our junction boxes can be mounted on the front or the rear of the module. If we mount them on the front then the junction boxes will be positioned under the ridge cap for a mono or dual pitch roof. If the junction boxes are to be mounted on the rear of the solar module, BIPVco (or an approved partner) will need to cut holes in the roof where the junction boxes are to be positioned (the solar module provides a watertight covering to the holes). The DC cabling that connects the solar modules can then be internalised within the roof build up by providing an extra layer of battened OSB (the supporting board for the roof system), or by dropping the DC interconnect cables through the roof cavity.
- For further technical and handling information on our Flextron modules please see our datasheets and safety manuals which can be downloaded from our website.
- Copies of our Terms and Conditions and Warranty can also be downloaded from our website

Contracting considerations

- Is the roof and solar being purchased together? If so, BIPVco will purchase the roof system and assist with design and layout, and then sell the roof and solar modules as a package to the client with manufacturers back to back warranties maintained.

- If the roof and solar are being purchased separately, it is the responsibility of the client to provide the correct information to the roof manufacturer and to provide BiPVco with a layout drawing of where the solar modules are to be laminated on to the roof

Ordering the roof and solar systems

Construction drawings will need to be provided to receive a Final Schedule and quote on the roof system. These drawings will need to include a section of the roof showing the length of the roof sheet from ridge to eaves, including any overhang.

Depending on how long the process has taken thus far, the price from estimate to Final Schedule may change. The Final Schedule will include the following elements for the roof –

- Confirmation of roof sheet lengths, plus confirmation of roof sheet layout including the positioning of the module on the roof sheet with all referenced dimensions
- Full bill of materials for trims, verge and other details
- Confirmation of PV system size (module lengths/outputs, number of)



Once the sign off has been received, a Final Quote will be sent to the client and a 30% deposit will need to be paid by the client in order to manufacture the goods.

A sign off will be required before the roof can be manufactured. The lead time of 4-6 weeks for the manufacturing of the roof and the lamination of the PV modules to the roof (and subsequent delivery of the system to site) will not begin until a signed copy of the Final Schedule is received by BiPVco or Catnic.

Transportation

Additional Transport Options

Please ensure you have considered any site access restrictions & specific transport requirements. Transport in the above schedule is based on Standard Artic with no off loading equipment - please select from the following transport options if you require anything additional. Any changes in transport requirements may result in a change to the overall cost

Option	Description	Additional Cost	Tick if required
Rigid Vehicle	Available at 6m, 8 m & 9m lengths where there may be insufficient access for a standard artic Required Length: -	Based on full load	
Moffet	 <p>Small FLT usually mounted at the back of a flatbed trailer. Suitable for panel lengths to a max of 6m. No overhang allowed.</p>		
Hiab	 <p>Small crane mounted behind the cab. Suitable for panels from 6 to 12.5 with a lifting beam.</p>		