

# Introducing an off-roof Overhead Solar Glazing Solution that delivers Superior Power where it's needed most

## Complete Care Home Solar PV Glass Energy Solutions.

Solar Glazed Verandas | Solar Glazed Covered Dining Areas | Solar Glazed Carports



**A covered outdoor space with numerous applications including:**

■ Covered Walkway ■ Main Entrance Shelter ■ Covered Outdoor Social Area



# Product Benefits

## 2 in 1 Overhead Solar Glazing - PowerGlaze ORS420

- 420 watt bi-facial semi-transparent Solar Glass super panel – the most powerful in UK market today
- A substantial additional source of renewable solar power that also has numerous social and health benefits
- Gives all year round outdoor protection for use as social garden canopy, linked walkway, garden healing space or main entrance cover
- Greatly benefits mental health, encourages movement and provides safer socialising areas
- Gives 100% UV protection and mitigates the sun's heat to provide comfortable relaxing space
- Can also be used for outdoor equipment cover, vaping area, bike shed and car park covers
- Improved EPC will also increase residual property value as well as reducing bills
- Modular system can be scaled to suit any property
- Access cheaper finance interest rates for green new build developments through the Greener Homes Alliance, plus cheaper energy through Octopus Flexi Tariffs
- Reduces CO<sub>2</sub> and greenhouse gas emissions
- Improves energy usage and efficiency
- Fireclass A1 to IEC61730 Rating
- 30 year Solar Glass Product and Performance Warranty

| Description            | Size        | Kw Peak | Kw Daily | Kw Annual | Price From (£) | Install Price (£) | Estimated Annual Saving (£)* |
|------------------------|-------------|---------|----------|-----------|----------------|-------------------|------------------------------|
| 12 Panels<br>6x2 Array | 6.8m x 3.6m | 5.04    | 11.9     | 4349      | 16,000         | 5,250             | 2,650                        |
| 18 Panels<br>6x3 Array | 6.8m x 5.5m | 7.56    | 17.87    | 6524      | 21,500         | 5,250             | 3,850                        |
| 21 Panels<br>7x3 Array | 7.9m x 5.5m | 8.82    | 20.85    | 7611      | 24,000         | 5,750             | 4,350                        |

Price based on aluminium powder coated framework, 4 or 6 posts, ORS 420W semi-transparent solar PV glass roof system with 8% light transmission (also available in oak). Install price includes mechanical and electrical installation, grid-linked inverter and certification. \*Saving based on 50p Kw/H.



## CSR Benefits

- Help overall company carbon footprint reduction
- Supply chain manufacturing and assembly is UK based
- Solar glass is cradle to cradle certified
- Audit trail – guaranteed no forced labour in solar cell manufacture
- Additional product that can be integrated into future homes modelling
- Help meet Sustainable Supply Chain Goals
- Help meet Continuous Business Improvement Goals
- Boost eco creds with staff, customers and shareholders
- Add shareholder value
- Promote the use of renewables that reduce power demand from the National Grid

| Technology package                                                                  |                                                                                                             | Installation package              |                                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------------------|
| Part                                                                                | Description                                                                                                 | Part                              | Description                                                                  |
| Solar ladders                                                                       | Solar glass is structurally bonded prewired and FAT, IP68 rating                                            | Building, Groundworks             | Preparation, levelling, setting out, building works, entry/egress, make good |
| Superstructure                                                                      | Front and back legs, side frame, RAL 7016 Coastal spec. Matt Gloss, levelling plates and chemical fix bolts | Glazing, trim, mats               | Trim finishing to conceal DC cabling, clean sight lines, sealing             |
| Inverter                                                                            | Solis/Huawei/GivEnergy or other                                                                             | Mechanical install                | Safe mechanical lifting operations, assembly                                 |
| Generation meter                                                                    | Compatible inc.                                                                                             | Electrical install                | Accredited third party electrical install, testing                           |
| DC strings                                                                          | Staubli inc. branch, crimped, tested                                                                        | Trenching, isolation, trunking    | Junction boxes containment, cable tray, protection, reinstatement            |
| O&Ms warranty                                                                       | 10 years product                                                                                            | DNO, NICEIC and MCS Certification | DNO clarifications, amendments, NICEIC and MCS certification                 |
|  |                                                                                                             | Guttering                         | Guttercrest - Ogee fixings and downpipe. Available as upgrade                |
|                                                                                     |                                                                                                             | Quality                           | Drawings, install sign off, check list                                       |



approved by **octopus** real estate

**PowerGlaze ORS420 - Power where it's needed most**

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