

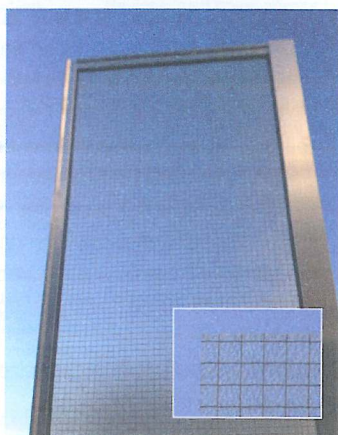
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GW Polycarbonate – the alternative to Georgian wired glass

GW Polycarbonate is a textured surface, solid polycarbonate sheet from Twinfix that mimics Georgian wired glass. It is also available with a smooth finish.

- **Safe in use:** All the many benefits of polycarbonate, but looks like Georgian wired glass
- **Heritage:** Replaces failed Georgian wired glass on Heritage sites
- **Long lasting:** Low maintenance, durable glazing that won't crack or craze
- **Light weight:** Weighs only 7.2Kg/m² compared with 6mm glass at 15.2Kg/m²
- **Non-Fragile Roofing:** Glazed into our Multi-Link-Panel NF it conforms to the HSE ACR[M]001:2014 test for non-fragile roofing assemblies



Get in touch to discuss your project

01925 811311
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www.twinfix.co.uk



Enquiry Number PR8

of a building. We are insulating roofs, walls and floors to the hilt, but the windows? They are getting better but there is much to be done.

Air conditioning allows for bolder designs with more and more glass. However, if you consider that solar gain can easily amount to 400 or 450W/m² glass surface per hour then all of a sudden, too much glass can prove quite an energy headache unless it is properly shaded. 400W/m² per hour does not sound much? Take a modest five-storey office – 10m wide, 2.9m high glass per floor = 145m² of glass x 400W = 58,000W or 58kW of energy coming in every hour. What is the air-conditioning cost to keep the office cool? If the energy input could be reduced by 70+% – if we can achieve a g-total figure of 0.3 then the energy consumption picture

looks a lot more friendly.

If we take a not-so-modest building like The Shard in London, the glass g-value of 0.68 has been improved to 0.12 by using proper solar shading materials. So only 12% of all solar energy projected at the windows enters the building instead of 68% with glass only.

Standards for shading have now been laid down in EN 14501(12) and EN 13363-1(13). Performance data on the shading material itself is meaningless.

The above standards deal with four different types of glazing in combination with the shading material. Only that way can a true figure, the g-total or g-tot, be achieved and do we get data with which building engineers can work.

Enquire about De Leeuw PR225



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Reflex-Rol blinds use semi transparent metallic polyester foils, giving excellent internal glare control

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* Accredited data reports from Sonnergy of Oxford - copies available on request

Enquiry Number PR9