












**Comparison of the properties of Chromatics Safety Glass, ceramic-coated toughened glass and back-painted glass for use as splash backs/ interior secret fix cladding**

Characteristics	Chromatics Safety Glass	Ceramic-coated Toughened/Tempered Glass	Back-painted glass
<b>Panels</b>			
Certified BSEN 12600 safety glass at only 4mm thickness	Yes ✓	Yes ✓	No ✗
Designed and certified for use with structural adhesives in secret fix applications	Yes ✓	No ✗	No ✗
Fully tested laminate product far exceeding BSEN 1542 pull-off test	Yes ✓	No ✗	No ✗
Can be safely installed with no visible fixings	Yes ✓	No ✗	No ✗
Susceptible to spontaneous catastrophic nickel sulphide breakages	No ✓	Yes ✗	No ✓
Can be structurally bonded with no show through or damage to the coating	Yes ✓	No ✗	No ✗
Exterior grade durability	Yes ✓	Yes ✓	No ✗
Shatterproof -remains safe and intact even when broken	Yes ✓	No ✗	No ✗
Will explode, break catastrophically, or shatter dangerously when broken	No ✓	Yes ✗	Yes ✗
Can be cut, drilled, jet cut & edge worked after process	Yes ✓	No ✗	Yes ✓
Available as stock sheets	Yes ✓	No ✗	No ✗
Non Combustible	Yes ✓	Yes ✓	No ✗

Supports and propagates surface spread of flame	No	✓	No	✓	Yes	✗
Bomb resistant panels available	Yes	✓	No	✗	No	✗
Free from rollerwave distortion and pinholes	Yes	✓	No	✗	Yes	✓
Will withstand moisture, humidity and extreme environments	Yes	✓	Yes	✓	No	✗
Network rail approved product	Yes	✓	Yes	✓	No	✗
Available in any durable colour and/ or HD digital image	Yes	✓	No	✗	No	✗
100% colour consistency panel to panel, batch to batch	Yes	✓	No	✗	No	✗
Dispose of without creating pollution either through incineration or landfill	Yes	✓	No	✗	No	✗
Withstands/ dissipates temperature differences across the panel	Yes	✓	Yes	✓	No	✗
Can shield digital data from unwanted surveillance	Yes	✓	No	✗	No	✗
<b>Coatings</b>						
Could contain toxic elements, such as lead and other metals	No	✓	Yes	✗	Yes	✗
Contains harmful VOC's such as solvents	No	✓	Yes	✗	Yes (80%)	✗
Produces harmful by-products during the coating process	No	✓	Yes	✗	Yes	✗
Waste products from the process can be disposed of safely in landfill	Yes	✓	No	✗	No	✗
Applied at low-energy temperatures of maximum 200° C	Yes	✓	No	✗	Yes	✓

Are applied at temperatures of more than 600° C	No 	Yes 	No 
Are clean and require no special disposal methods from the production line	Yes 	No 	No 
Extraction required during manufacture	No 	Yes 	Yes 
UV stable for more than 25 years	Yes 	Yes 	No 