DIAMOND SYSTEM PRODUCTS

**DIAMOND DÉCOR®**
- Colour coated or screen printed impact resistant glass panels

**DIAMOND DÉCOR® SATINOVO**
- Colour coated impact resistant glass panels with satin etch finish to front face

**DIAMOND MIRROR®**
- Impact resistant mirror

**DIAMOND MIRROR® SATINOVO**
- Impact resistant mirror with satin etch finish to front face
DIAMOND SYSTEM

PROPERTIES

TRANSPORTATION
A lightweight system - one-third lighter than conventional glass. Easy to handle and install.

STRENGTH
Significantly stronger than ordinary safety glass when installed. Reduced risk of breakage and personal injury.

AESTHETICS
High clarity reflective image with no distortion. Optical opacity with true colour representation.

SAFETY
Shatterproof: Impact BS 6206 Class A (Diamond 18®)
Impact EN 12600 Class B (Diamond 8®)
Impact Resistant: Hard Body Impact
Human Body Impact
Bomb Blast
Fire Performance: BS 476 Part 6 Class O & Part 7 Class 1.

FEATURES

DIAMOND 8®
Suitable for ‘over cladding’ existing finishes or any smooth continuous substrate.

DIAMOND 18®
Self supporting system, suitable for areas where wood substrate is unavailable such as block and brickwork, timber/metal studs.

FIXING
Adhesive or mechanical fixing. No need for drilling which weakens glass and no unsightly fixing heads.

TRIMS
Complementary range of trims providing framed area and mechanical restraint. These are available in a range of polished/anodised/coloured finishes.
## SAFETY ADVANTAGES

<table>
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<tr>
<th></th>
<th><strong>DIAMOND DÉCOR® &amp; DIAMOND MIRROR®</strong></th>
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</thead>
</table>
| **IMPACT RESISTANT?** | Yes - Impact resistant to BS 6206 Class A (Diamond 18®)  
|                  | Impact resistant to EN 12600 Class B (Diamond 8®) |
| **SHATTERPROOF?**   | Yes - The 4mm glass breaks safely and cleanly through the full thickness leaving no splinters or shards. |
| **EXPLOSIVE BLAST RESISTANT?** | Yes - Breaks but remains in position after being subjected to measured explosive blast pressure. |
| **FIRE RATED?**     | Yes - Surface spread of flame BS476 Part 7 Class 1 / Fire propagation BS476 Part 6 Index 1 / Combined Class O fire rating |
| **FIXING**          | Our products can be fixed using adhesive bonding only (mechanical restraints may be recommended subject to application). |
| **WEIGHT**          | 11 kg per m² - One third lighter than conventional 6mm safety backed glass. |
| **LEAD TIME**       | The lead time for our product is considerably less than toughened glass products. Panels can be cut and manufactured quickly to suit site requirements as there is no need to go through the time consuming toughening process. |
| **ADVANTAGES OVER TOUGHENED GLASS** | Our glass products can be cut and supplied to finer tolerances than toughened glass.  
|                  | No risk of spontaneous explosive failure due to nickel sulphide inclusions.  
<p>|                  | Replacement panels if required can be supplied quickly. |</p>
<table>
<thead>
<tr>
<th>PRODUCT REFERENCE</th>
<th>DIAMOND DECOR® 8</th>
<th>DIAMOND DECOR® 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>FACE MATERIAL</td>
<td>4mm colour coated low iron (crystal clear) or float glass (slight green tint)</td>
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<tr>
<td>CORE MATERIAL</td>
<td>N/A</td>
<td>Impact resistant layer from 2mm expanded polyether polymer</td>
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<tr>
<td>BACK MATERIAL</td>
<td>Impact resistant layer from 4mm expanded polyether polymer</td>
<td>12mm (nominal) thick lightweight composite board obviating the need for a smooth continuous substrate</td>
</tr>
<tr>
<td>NOMINAL THICKNESS</td>
<td>8mm</td>
<td>18mm</td>
</tr>
<tr>
<td>BACKGROUND</td>
<td>Smooth continuous substrate</td>
<td>Block &amp; brickwork, timber/metal studs</td>
</tr>
<tr>
<td>EDGE TREATMENT</td>
<td>Polished all round</td>
<td>Polished all round</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>10kg per m² (nominal)</td>
<td>11kg per m² (nominal)</td>
</tr>
<tr>
<td>MAXIMUM PANEL SIZE</td>
<td>3000mm x 1200mm</td>
<td>3000mm x 1150mm</td>
</tr>
<tr>
<td>SAFETY</td>
<td>Shatterproof: Impact resistant to BS EN 12600 Fire: BS 476 Part 6 &amp; 7 Class 1 (see Test Data Summary Sheet)</td>
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<tr>
<td>JOINT TREATMENT</td>
<td>Arrised butt vertical joint, bright polished anodized aluminium ‘H’ section trims to horizontal joints if required - refer to Product Manual or Chelsea Artisans for recommendations.</td>
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<td>Factory cut outs to accommodate control panels, ironmongery etc. Site cutting possible.</td>
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</table>
# Standard Diamond DÉCOR® Colours

## Brights

<table>
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<tr>
<th>Colour</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OXIDE RED</td>
<td>ORANGE BROWN</td>
<td>TRAFFIC YELLOW</td>
<td>LIME GREEN</td>
<td>MINT GREEN</td>
</tr>
<tr>
<td>TOMATO RED</td>
<td>SALMON ORANGE</td>
<td>LEMON YELLOW</td>
<td>NEON GREEN</td>
<td>TURQUOISE BLUE</td>
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<tr>
<td>TRAFFIC RED</td>
<td>PASTEL ORANGE</td>
<td>GREEN BEIGE</td>
<td>YELLOW GREEN</td>
<td>DUCK EGG</td>
</tr>
<tr>
<td>TANGERINE</td>
<td>DAFFODIL YELLOW</td>
<td>MOSS GREEN</td>
<td>PASTEL GREEN</td>
<td>PASTEL BLUE</td>
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<td>PURPLE</td>
</tr>
</tbody>
</table>

Standard samples available. Bespoke colours available through our colour matching service to RAL, Dulux Trade & Pantone references. Also available in toughened glass solutions and other glass thicknesses.
Standard Diamond Décor® Colours

**Pastels**
- Burnt Rose
- Peach
- Caramel Beige
- Light Ivory
- Vanilla
- Light Green
- Aqua
- White Aluminium

**Darks**
- Wine Red
- Terra Brown
- Chocolate
- Coffee
- Olive Green
- Aqua-French Blue
- Genitian Blue
- Ultramarine

**Monochromes**
- Jet Black
- Slate
- Blue Grey
- Light Grey
- Dove
- Stone
- White 9010
- Ultrawhite

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<th>FACE MATERIAL</th>
<th>CORE MATERIAL</th>
<th>BACK MATERIAL</th>
<th>NOMINAL THICKNESS</th>
<th>BACKGROUND</th>
<th>EDGE TREATMENT</th>
<th>WEIGHT</th>
<th>MAXIMUM PANEL SIZE</th>
<th>SAFETY</th>
<th>JOINT TREATMENT</th>
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<th>ACCESSORIES</th>
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<th>COLOURS</th>
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<tbody>
<tr>
<td>4mm silvered glass (tints available)</td>
<td>N/A</td>
<td>Impact resistant layer from 4mm expanded polyether polymer</td>
<td>8mm</td>
<td>Smooth continuous substratePolished all round</td>
<td>10kg per m² (nominal)</td>
<td>3000mm x 1200mm</td>
<td>Shatterproof: Impact resistant to BS EN 12600 Fire: BS 476 Part 6 &amp; 7 Class 1. Complies with requirements for Class 0. (see Test Data Summary Sheet)</td>
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<td><strong>BACKGROUND</strong></td>
<td>Smooth continuous substrate</td>
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</tbody>
</table>
STANDARD MIRROR COLOURS

DIAMOND MIRROR®

CLEAR SILVER

GREY TINT

BRONZE TINT

ANTIQUE SILVER

ANTIQUE BRONZE

Standard samples available. Additional mirror tints may be available subject to quantity and availability.
<table>
<thead>
<tr>
<th>Product Reference</th>
<th>Face Material</th>
<th>Core Material</th>
<th>Back Material</th>
<th>Nominal Thickness</th>
<th>Edge Treatment</th>
<th>Weight</th>
<th>Maximum Panel Size</th>
<th>Safety</th>
<th>Joint Treatment</th>
<th>Fixing Method</th>
<th>Accessories</th>
<th>Processing Options</th>
<th>Colours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIAMOND DÉCOR 8 ® SATINOVO</td>
<td>4mm colour coated low iron (crystal clear) or</td>
<td>Impact resistant layer from 2mm expanded polyether polymer</td>
<td>Block &amp; brickwork, timber/metal studs</td>
<td>18mm</td>
<td>Smooth continuous substrate</td>
<td>Shatterproof: Impact resistant to BS 6206 Fire: BS 476 Part 6 &amp; 7 Class 1. Complies with requirements for Class 0.</td>
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</tbody>
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DIAMOND DÉCOR 18 ® SATINOVO | 4mm colour coated low iron (crystal clear) or | Impact resistant layer from 4mm expanded polyether polymer | | 8mm | Smooth continuous substratePolished all round | Shatterproof: Impact resistant to BS EN 12600 Fire: BS 476 Part 6 & 7 Class 1. Complies with requirements for Class 0. | Arissed butt vertical joint, bright polished anodized aluminium 'H' section trims to horizontal joints if required - refer to Product Manual or Chelsea Artisans for recommendations. Adhesive and/or bright polished anodized aluminium 'J' section trims - refer to the Product Manual, Advice Manual or Chelsea Artisans for recommendations. Purpose made bright polished anodized aluminium 'J' section trims to perimeter and 'H' section trims to horizontal joints. Factory cut outs to accommodate control panels, ironmongery etc. Site cutting possible. Please see Diamond Decor® Colour Guide for options. | 10kg per m² (nominal) | 3000mm x 1200mm |
## DIAMOND DÉCOR® SATINOVO

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</tr>
<tr>
<td>FACE MATERIAL</td>
<td>CORE MATERIAL</td>
<td>BACK MATERIAL</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------</td>
<td>---------------</td>
</tr>
<tr>
<td>4mm silvered glass (tints available) with satin etch</td>
<td>Impact resistant layer from 4mm expanded polyether polymer</td>
<td>Smooth continuous substrate</td>
</tr>
<tr>
<td>4mm silvered glass (tints available) with satin etch</td>
<td>Impact resistant layer from 2mm expanded polyether polymer</td>
<td>12mm (nominal) thick lightweight composite board obviating the need for smooth a continuous substrate</td>
</tr>
</tbody>
</table>
# Chelsea Artisans
**Fusion Glass Designs**

## DIAMOND MIRROR® SATINOVO

### DIAMOND MIRROR® 8 SATINOVO
- **Face Material**: 4mm silvered glass (tints available) with satin etch finish to front face
- **Core Material**: N/A
- **Back Material**: Impact resistant layer from 4mm expanded polyether polymer
- **Nominal Thickness**: 8mm
- **Background**: Smooth continuous substrate
- **Edge Treatment**: Polished all around
- **Weight**: 10kg per m² (nominal)
- **Maximum Panel Size**: 3000mm x 1200mm
- **Safety**: Shatterproof; Impact resistant to BS EN 12600 Part 6 & 7 Class 1. Complies with requirements for Class 0. (see Test Data Summary Sheet)
- **Joint Treatment**: Arrised butt vertical joint, bright polished anodized aluminium ‘H’ section trims to horizontal joints if required - refer to Product Manual or Chelsea Artisans for recommendations.
- **Fixing Method**: Adhesive and/or bright polished anodized aluminium ‘J’ section trims - refer to the Product Manual, Advice Manual or Chelsea Artisans for recommendations.
- **Accessories**: Purpose made bright polished anodized aluminium ‘J’ section trims to perimeter and ‘H’ section trims to horizontal joints.
- **Processing Options**: Factory cut outs to accommodate control panels, ironmongery etc. Site cutting possible.
- **Colours**: Please see Diamond Satinovo Colour Guide for options.

### DIAMOND MIRROR® 18 SATINOVO
- **Face Material**: 4mm silvered glass (tints available) with satin etch finish to front face
- **Core Material**: Impact resistant layer from 2mm expanded polyether polymer
- **Back Material**: 12mm (nominal) thick lightweight composite board obviating the need for smooth a continuous substrate
- **Nominal Thickness**: 18mm
- **Background**: Block & brickwork, timber/metal studs
- **Edge Treatment**: Polished all round
- **Weight**: 11kg per m² (nominal)
- **Maximum Panel Size**: 3000mm x 1200mm
- **Safety**: Shatterproof: Impact resistant to BS 6206 Part 6 & 7 Class 1. Complies with requirements for Class 0. (see Test Data Summary Sheet)
- **Joint Treatment**: Arrised butt vertical joint, bright polished anodized aluminium ‘H’ section trims to horizontal joints if required - refer to Product Manual or Chelsea Artisans for recommendations.
- **Fixing Method**: Adhesive and/or bright polished anodized aluminium ‘J’ section trims - refer to the Product Manual, Advice Manual or Chelsea Artisans for recommendations.
- **Accessories**: Purpose made bright polished anodized aluminium ‘J’ section trims to perimeter and ‘H’ section trims to horizontal joints.
- **Processing Options**: Factory cut outs to accommodate control panels, ironmongery etc. Site cutting possible.
- **Colours**: Please see Diamond Satinovo Colour Guide for options.
STANDARD SATINOVO COLOURS

DIAMOND DÉCOR® SATINOVO
- ULTRAWHITE
- CLEAR SILVER
- BRONZE

DIAMOND MIRROR® SATINOVO
- BLACK
- GREY

Standard samples available. Bespoke Diamond Décor® Satinovo colours available through our colour matching service to RAL, Dulux Trade & Pantone references.
### DIAMOND SYSTEM

#### PRODUCT COMPOSITION

**DIAMOND DÉCOR® 8 / DIAMOND MIRROR® 8**

- **THICKNESS**: 8mm (nominal)
- **WEIGHT**: 10kg per m² (nominal)
- **MAX. PANEL SIZE**: 3000mm x 1200mm
- **SAFETY**:
  - Shatterproof: Impact resistant to BS EN 12600
  - Fire: Fire: BS 476 Part 6 & 7 Class 1. Complies with requirements for Class 0. (see Test Data Summary Sheet)

**DIAMOND DÉCOR® 18 / DIAMOND MIRROR® 18**

- **THICKNESS**: 18mm (nominal)
- **WEIGHT**: 11kg per m² (nominal)
- **MAX. PANEL SIZE**: 3000mm x 1150mm
- **SAFETY**:
  - Shatterproof: Impact resistant to BS 6206
  - Fire: BS 476 Part 6 & 7 Class 1. Complies with requirements for Class 0. (see Test Data Summary Sheet)

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4mm annealed glass with colour coating or mirror finish to rear

Removable protective film

Solvent resistant surface

4mm polyether polymer impact resistant layer

4mm annealed glass with colour coating or mirror finish to rear

Rot and moisture-proof aluminium foil

Insulation board

4mm polyether polymer impact resistant layer

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Chelsea Artisans
Fusion Glass Designs

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info@chelsea-fusion.com
www.chelsea-fusion.com
DIAMOND SYSTEM

DIAMOND 8® STANDARD ‘J’ TRIM

TYPICAL PLAN SECTION

NOTE: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.

RENDERED VISUAL

Panel joint

Adhesive

Diamond 8® ‘J’ Trim

Diamond Décor® 8/
Diamond Mirror® 8

Diamond Décor® 8/ 
Diamond Mirror® 8

Panel joint

Adhesive

Packer
DIAMOND 18® STANDARD ‘J’ TRIM

TYPICAL PLAN SECTION

NOTE: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.
DIAMOND SYSTEM

DIAMOND 8® DIVIDER TRIM

DIAMOND 18® DIVIDER TRIM

NOTE: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.
NOTE 1: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.

NOTE 2: Where panelled area extends above 3m high, mechanical restraint will be necessary.
EXTERNAL CORNER JOINT (BIRD’S BEAK)

EXTERNAL CORNER JOINT WITH VERTICAL TRIM

PLAN SECTION - DIAMOND 8®

PLAN SECTION - DIAMOND 8®

PLAN SECTION - DIAMOND 18®

PLAN SECTION - DIAMOND 18®

RENDERED VISUAL

RENDERED VISUAL
GLASS SKIRTING

Diamond Décor® 18/
Diamond Mirror® 18

Adhesive

150 MINIMUM

RENDERED VISUAL

TYPICAL SECTION

DIAMOND SYSTEM

TYPICAL SECTION

RENDERED VISUAL

TIMBER SKIRTING

Diamond Décor® 18/
Diamond Mirror® 18

Adhesive

Skirting by others

FFL
TIMBER SKIRTING WITH ANGLE TRIM

Diamond Décor® 18/
Diamond Mirror® 18

Adhesive

Angle trim

Skirting by others

TIMBER SKIRTING WITH SHADOW GAP

Diamond Décor® 18/
Diamond Mirror® 18

Adhesive

Angle trim

Shaddow gap

Skirting by others
**DIAMOND SYSTEM**

**HANDRAILS - HIDDEN FIXINGS**

**SINGLE HANDRAIL / BALLET BARRE**

- Diamond Décor® 18/
  Diamond Mirror® 18
- Threaded handrail bracket
- Adhesive
- Timber rail
- Single handrail fixing bracket fixed back to background with suitable fixings

**DOUBLE HANDRAIL / BALLET BARRE**

- Diamond Décor® 18/
  Diamond Mirror® 18
- Escutcheon plate
- Threaded handrail bracket
- Double handrail fixing bracket fixed back to background with suitable fixings

**NOTE:** Drilling or cutting glass weakens it and should be avoided. The recommended method for securing handrails is to fix a timber rail, or similar, with semi-circular cutouts in the glass. There must be no pressure imposed on the panels at this point. It is necessary to co-ordinate fixing positions and panel widths prior to manufacture.
NOTE: Drilling or cutting glass weakens it and should be avoided. The recommended method for securing handrails is to fix a timber rail, or similar, with semi-circular cutouts in the glass. There must be no pressure imposed on the panels at this point. It is necessary to co-ordinate fixing positions and panel widths prior to manufacture.
FRAME DETAILS

DIAMOND 8® FRAME TRIM

DIAMOND 18® FRAME TRIM

NOTE: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.
NOTE: All trims supplied with a bright polished anodized finish as standard. Other finishes available on request subject to availability.
# DIAMOND SYSTEM

## TEST DATA SUMMARY

### DIAMOND 8®

<table>
<thead>
<tr>
<th>TEST</th>
<th>AUTHORITY &amp; DATE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPLOSION</td>
<td>Metropolitan Safety &amp; Protection 1985</td>
<td>Resisted explosion 4.25m from face.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Extensive cracking but held position from 0.23m from face.</td>
</tr>
<tr>
<td>IMPACT BS 6206</td>
<td>Building Investigation &amp; Testing Services 2004</td>
<td>Class B – Level of impact resistance considerably exceeds the severe duty (SD) rating for partition wall as defined in BS 5234. Glass tested on a plasterboard skinned metal stud partition wall background. Note: Class A can be achieved with the correct substrate.</td>
</tr>
<tr>
<td>FIRE PROPOGATION</td>
<td>Warrington Fire Research 2001</td>
<td>BS 476 Part 6, (1997) Fire Propagation Index, I = 0.3 in conjunction with Part 7 Class 1, Part K product rated Class 0.</td>
</tr>
</tbody>
</table>

### DIAMOND 18®

<table>
<thead>
<tr>
<th>TEST</th>
<th>AUTHORITY &amp; DATE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMPACT BS 6206</td>
<td>Building Investigation &amp; Testing Services 2004</td>
<td>Class A</td>
</tr>
<tr>
<td>FIRE PROPOGATION</td>
<td>Warrington Fire Research 2001</td>
<td>BS 476 Part 6, (1997) Fire Propagation Index, I = 0.3 in conjunction with Part 7 Class 1, Part K product rated Class 0.</td>
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