

# JOHNSON

|                  |              |
|------------------|--------------|
| Uniclass<br>L512 | Epic<br>E223 |
| CI/SfB<br>(42)   | Sg3          |
| August 2007      |              |



# prismatics

CERAMIC WALL TILES

# JOHNSON

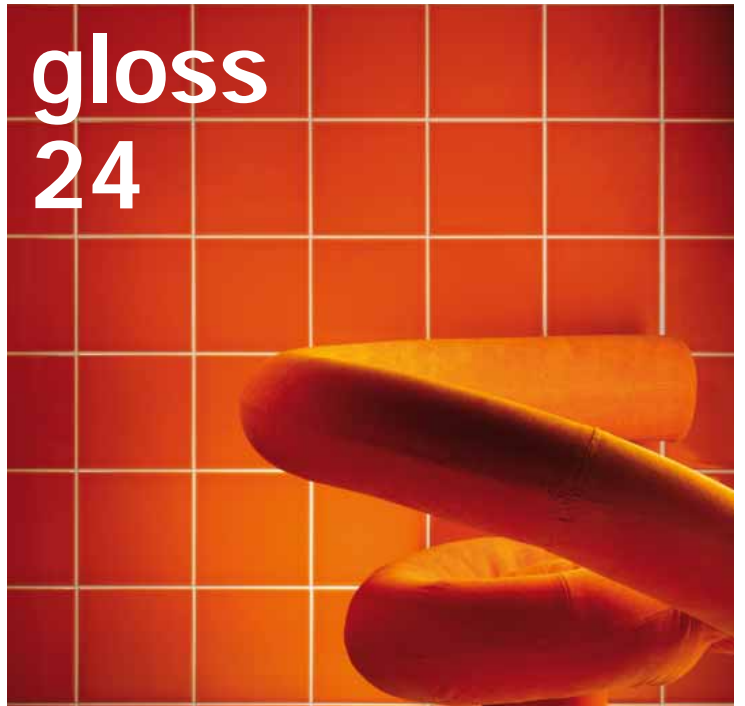
## prismatics index

|                               |    |  |
|-------------------------------|----|--|
|                               | 04 | introduction   |
| SATINS                        | 12 | 100 x 100mm  |
|                               | 16 | 150 x 150mm  |
|                               | 20 | 200 x 100mm  |
|                               | 22 | 200 x 200mm  |
| GLOSS<br>(mixed sizes)        | 24 | orange/yellow  |
|                               | 26 | red/mauve  |
|                               | 28 | blue/aqua  |
|                               | 30 | green  |
|                               | 32 | natural  |
|                               | 34 | monochrome   |
| MICROS                        | 36 | micros   |
| LARGE FORMAT<br>(mixed sizes) | 38 | satin and gloss  |
| FITTINGS                      | 42 | fittings   |
| TECHNICAL                     | 44 | technical<br><i>specification charts</i><br><i>colour notation &amp; dda</i><br><i>installation and cleaning</i> |

**satins**  
12



**gloss**  
24



**micros**  
36



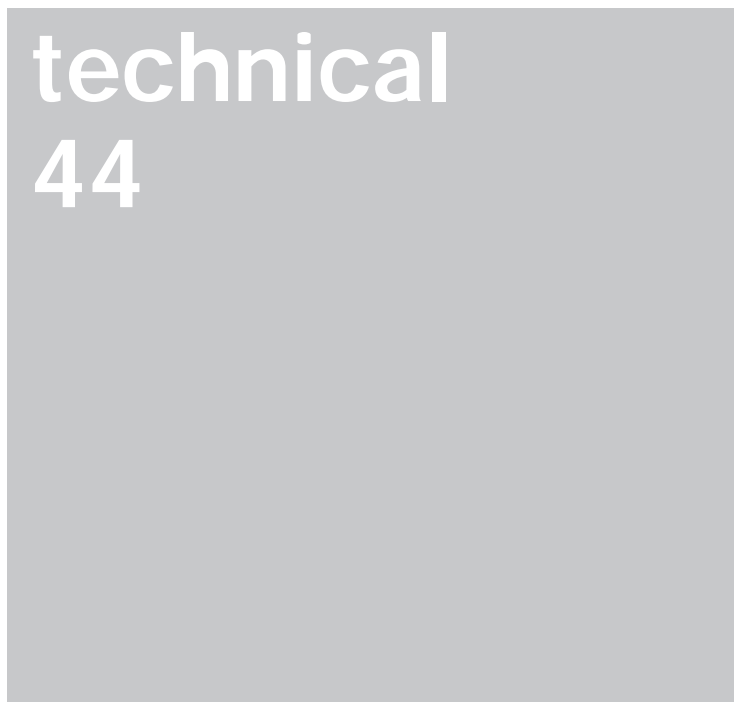
**large format**  
38



**fittings**  
42



**technical**  
44



# introduction

## company credentials

Founded in 1901 H & R Johnson Ltd. is the leading manufacturer and supplier of ceramic tiles in the UK, with a long history of market leadership and industry production development.

Part of the Norcros Group we have sister manufacturing bases in South Africa, Greece and India with additional offices in Dubai, USA and Australia.

In 2001 an investment in excess of £35 million allowed us to develop a new fully automated production facility on a single integrated site in Stoke-on-Trent.

Our UK factory produces over 5 million square metres of ceramic tiles for use in the UK and overseas markets.

H & R Johnson products are used in a wide range of commercial and non commercial projects and we supply ceramic tiles to almost every country of the world.

Our strength is based on a comprehensive portfolio of leading edge quality products combined with very high levels of customer service. As manufacturers we have extremely stringent quality and environmental control standards.

In 2006 we created and opened the award winning Material Lab design resource centre at 10 Great Titchfield Street, London, offering designers and architects an environment where products such as ceramics, glass, wallpaper, carpet tiles, trims, eco-resins, fabrics and many more materials can be explored.

We have a longstanding commitment to environmental management and have had a formal environmental policy since 1992. Our environmental management system is certified against the ISO14001 standard.

We were the first ceramics company within the whitewares sector to gain certification against the ISO14001 standard in 1998 and have since successfully upgraded our certification to meet the latest requirements of ISO14001:2004. We are the only UK wall tile manufacturer to have ISO14001 accreditation.

The company has never been subject to any prosecutions or formal environmental regulatory action for any breaches of environmental legislation.

In 1997 H & R Johnson were awarded the Queens Award for Environmental Achievement for our ceramic waste recycling scheme.

To our knowledge we are the only manufacturer in the world to operate such a scheme. This scheme which has been in continuous use since 1992 also enabled H & R Johnson to win the Manufacturing Industry Achievement Award for Environmentalist of the Year in 1997.

*Approximately 25% of the material used to produce our wall tiles comes from recycled ceramic materials from our own and other local companies.*

*Various recycling and energy saving schemes throughout our production and office processes allow us each year to:*

*Save 20,000 tonnes of ceramic landfill from our own and local ceramic factory waste saving 360 tonnes of CO<sub>2</sub> in transportation of materials*

*Save 1250 tonnes of virgin timber*

*Use 92% recycled materials in our packaging*

*Re-use 32 million litres of water (30% of the total factory usage)*

*Save 42 million kWh of energy*

*Save 2400 tonnes of CO<sub>2</sub>*

Our energy and material savings are detailed in our "Ceramic Tile Environmental Strategy" document.





Recycling - responsible manufacturing



Material Lab - London



LA Fitness - London







4

## projects

1 Bar - Altrincham   2 Restaurant Restroom - Cheshire   3 Hotel - Milton Keynes  
4 Leisure Centre - Hampshire   5 Primary School - Ilford



5

# introduction

## colours

### satins

100 x 100mm  
150 x 150mm

|                               |                              |                            |
|-------------------------------|------------------------------|----------------------------|
| PRS13<br>Black<br>Satin       | PRS12<br>White<br>Satin      | PRS86<br>Moleskin<br>Satin |
| PRS15<br>Shark<br>Satin       | PRS42<br>Harebell<br>Satin   | PRS73<br>Willow<br>Satin   |
| PRS41<br>Peppermint<br>Satin  | PRS82<br>Sweet Pea<br>Satin  | PRS79<br>Lime<br>Satin     |
| PRS87<br>Peacock<br>Satin     | PRS80<br>Aqua<br>Satin       | PRS81<br>Lapis<br>Satin    |
| PRS76<br>Vanilla<br>Satin     | PRS75<br>Buttermilk<br>Satin | PRS49<br>Mimosa<br>Satin   |
| PRS84<br>Banana<br>Satin      | PRS54<br>Papaya<br>Satin     |                            |
| PRS78<br>Yolk<br>Satin        | PRS14<br>Magnolia<br>Satin   |                            |
| PRS47<br>Thistledown<br>Satin | PRS74<br>Almond<br>Satin     |                            |
| PRS77<br>Truffle<br>Satin     | PRS83<br>Cayenne<br>Satin    |                            |

### satins

200 x 100mm  
200 x 200mm

|                               |
|-------------------------------|
| PRS13<br>Black<br>Satin       |
| PRS15<br>Shark<br>Satin       |
| PRS12<br>White<br>Satin       |
| PRS47<br>Thistledown<br>Satin |
| PRS14<br>Magnolia<br>Satin    |
| PRS49<br>Mimosa<br>Satin      |
| PRS54<br>Papaya<br>Satin      |
| PRS41<br>Peppermint<br>Satin  |
| PRS42<br>Harebell<br>Satin    |

### gloss

100 x 100mm  
200 x 100mm

150 x 150mm  
200 x 200mm

|                     |                       |                             |
|---------------------|-----------------------|-----------------------------|
| PRG53<br>Lemon Ice  | PRG51<br>Mimosa       | PRG52<br>Sunburst           |
| PRG48<br>Goldcrest  | PRG55<br>Pumpkin      | PRG35<br>Redwood            |
| PRG56<br>Mango      | PRG50<br>Sun Haze     | PRG39<br>Thistledown        |
| PRG25<br>Thistle    | PRG18<br>Raspberry    | PRV4<br>Victorian<br>Maroon |
| PRG38<br>Morello    | PRG19<br>Tomato       | PRG37<br>Peach Melba        |
| PRG34<br>Shell Pink | PRG36<br>Peach Sorbet | PRG32<br>Harebell           |
| PRG33<br>Bluebell   | PRG46<br>Kingfisher   | PRV3<br>Victorian Blue      |
| PRG16<br>Teal       | PRG44<br>Ocean Blue   | PRG17<br>Spearmint          |
| PRG28<br>Duck Egg   | PRG29<br>Glacier Blue | PRG45<br>Mintwater          |



## micros

150 x 150mm  
200 x 200mm

|                     |                         |                         |
|---------------------|-------------------------|-------------------------|
| PRG43<br>Peppermint | PRG27<br>Deep Sea Green | PRV5<br>Victorian Green |
| PRG26<br>Palm Green | PRG30<br>Kiwi           | PRG40<br>Pistachio      |
| PRG31<br>Oyster     | PRG20<br>Magnolia       | PRV2<br>Victorian Cream |
| PRG10<br>Barley     | PRG21<br>Sugarcane      | PRG8<br>Cappuccino      |
| PRG22<br>Chestnut   | PRG9<br>Woodpigeon      | PRG23<br>Rice           |
| PRG1<br>White       | PRG11<br>Shark          | PRG24<br>Storm Grey     |
| PRG7<br>Hawk Grey   | PRG13<br>Black          |                         |

|                                   |
|-----------------------------------|
| PRM57<br>White/Shark              |
| PRM58<br>Storm Grey/<br>Bluebell  |
| PRM59<br>Rice/<br>Storm Grey      |
| PRM60<br>Magnolia/<br>Redwood     |
| PRM61<br>Rice/<br>Victorian Green |
| PRM62<br>Barley/<br>Sugarcane     |
| PRM63<br>Rice/<br>Raspberry       |
| PRM64<br>Magnolia/<br>Cappuccino  |

## large format

300 x 300mm  
600 x 300mm

|                                 |                               |
|---------------------------------|-------------------------------|
| ELMS12<br>Alabaster<br>Satin    | ELMS67<br>Marl<br>Satin       |
| ELMS68<br>Slate Grey<br>Satin   | ELMS13<br>Basalt<br>Satin     |
| ELMS65<br>Tourmaline<br>Satin   | ELMS69<br>Silkstone<br>Satin  |
| ELMS70<br>Ivory<br>Satin        | ELMS71<br>Travertine<br>Satin |
| ELMS66<br>Limestone<br>Satin    | ELMS72<br>Clay<br>Satin       |
| ATIC1A<br>Arctic White<br>Gloss | ELMG11<br>Cement<br>Gloss     |
| ELMG23<br>Silkstone<br>Gloss    | ELMG6<br>Jet<br>Gloss         |



## prismatics

Prismatics have been manufactured by H & R Johnson for over 40 years and are the highest selling range of glazed wall tiles in the UK with annual sales exceeding 1 million m<sup>2</sup>.

The range has a palette of 92 colours available in 7 sizes ranging from 100x100mm to 600x300mm with glazed fittings available in most colours and sizes.

Product information (see example below) is provided to assist in the specification and suitability of products. These recommendations are generic only, please contact our technical advisory service for specific guidance on fitness for purpose applications Tel: 0845 210 3000.

### SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

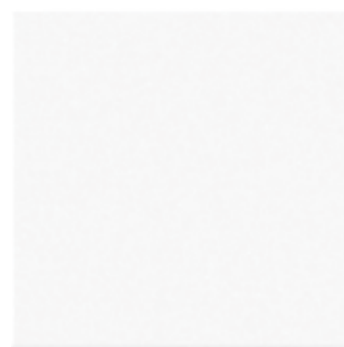


# prismatics

## satins 100 x 100mm



PR13 Black Satin



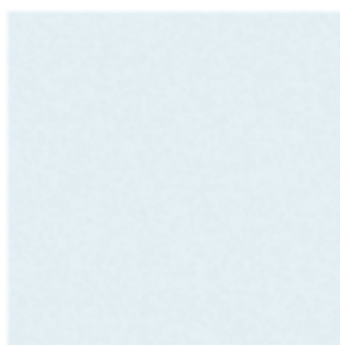
PR12 White Satin



PR86 Moleskin Satin



PR15 Shark Satin



PR42 Harebell Satin



PR73 Willow Satin

AVAILABILITY (see pages 48-49)



100 x 100 x 6.5mm

### SPECIFICATION

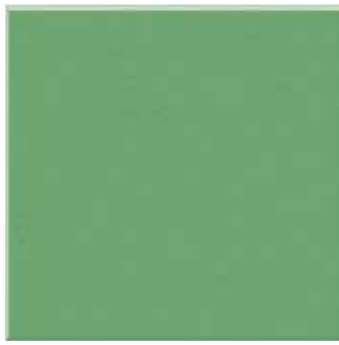
| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |



# satins



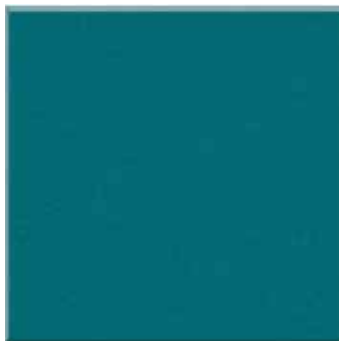
PRS41 Peppermint Satin



PRS82 Sweet Pea Satin



PRS79 Lime Satin



PRS87 Peacock Satin



PRS80 Aqua Satin



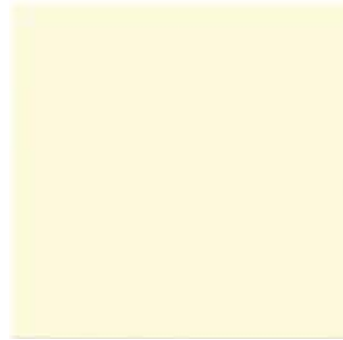
PRS81 Lapis Satin

continued>>



*PRS13 Black Satin  
Tap by Triton Showers*

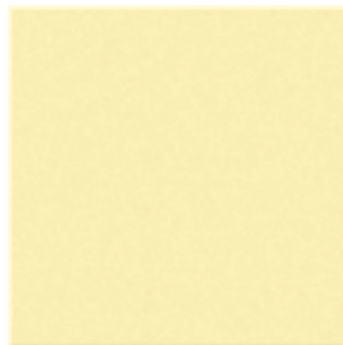
# satins



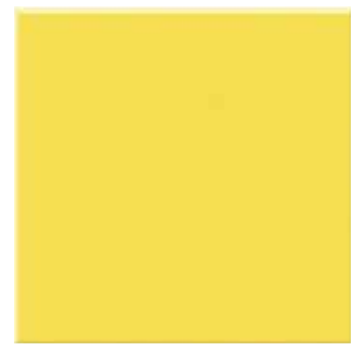
PRS76 Vanilla Satin



PRS75 Buttermilk Satin



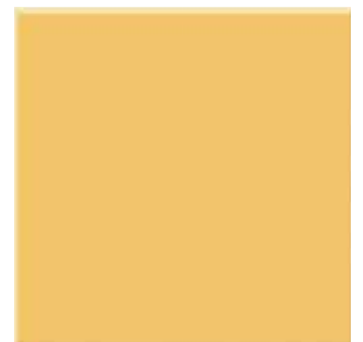
PRS49 Mimosa Satin



PRS84 Banana Satin



PRS54 Papaya Satin



PRS78 Yolk Satin

prismatics  
satins 100 x 100mm



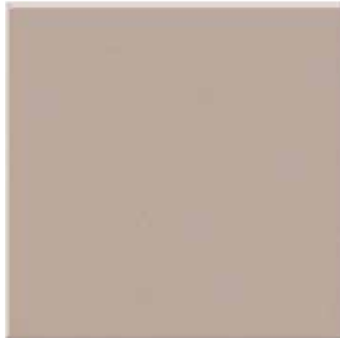
PRS14 Magnolia Satin



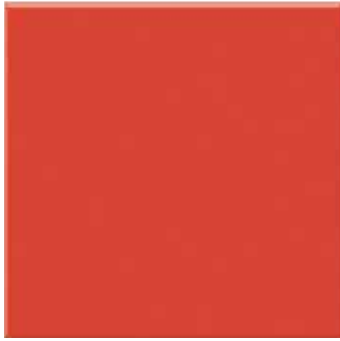
PRS47 Thistledown Satin



PRS74 Almond Satin



PRS77 Truffle Satin



PRS83 Cayenne Satin

AVAILABILITY (see pages 48-49)



100 x 100 x 6.5mm

SPECIFICATION

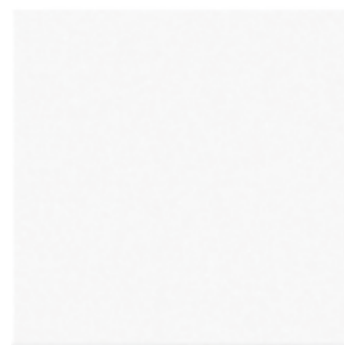
| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |

# prismatics

satins 150 x 150mm



PRS13 Black Satin



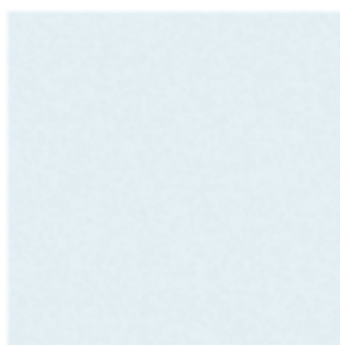
PRS12 White Satin



PRS86 Moleskin Satin



PRS15 Shark Satin



PRS42 Harebell Satin



PRS73 Willow Satin

AVAILABILITY (see pages 48-49)



150 x 150 x 6.5mm

## SPECIFICATION

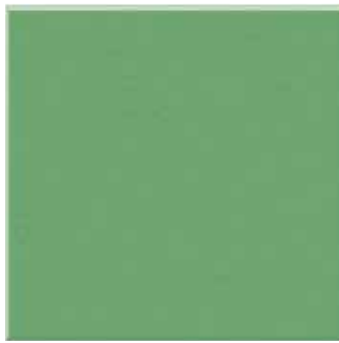
| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |



# satins



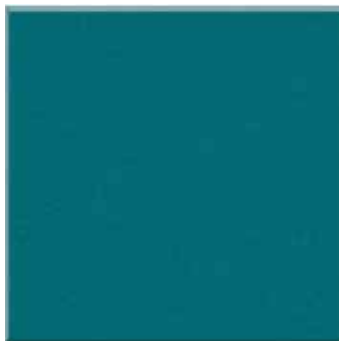
PRS41 Peppermint Satin



PRS82 Sweet Pea Satin



PRS79 Lime Satin



PRS87 Peacock Satin



PRS80 Aqua Satin



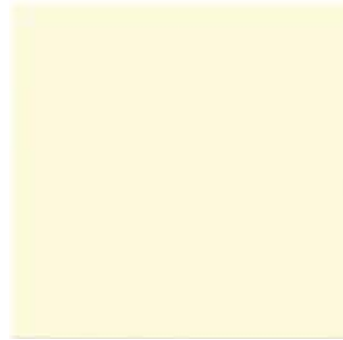
PRS81 Lapis Satin

continued>>



PRS79 Lime Satin  
ELMA5N Gothic Black 450 x 450mm - Elements  
Wall Art by Susan Bradley

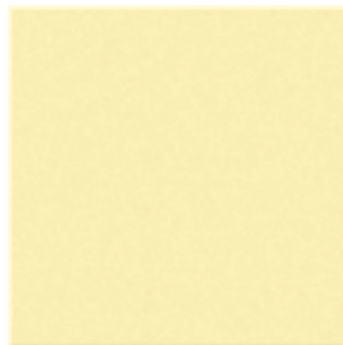
# satins



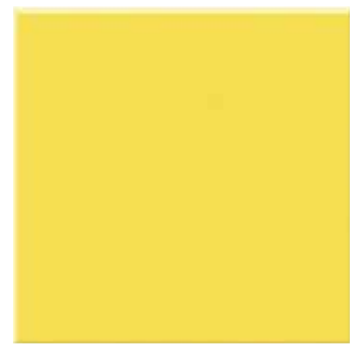
PRS76 Vanilla Satin



PRS75 Buttermilk Satin



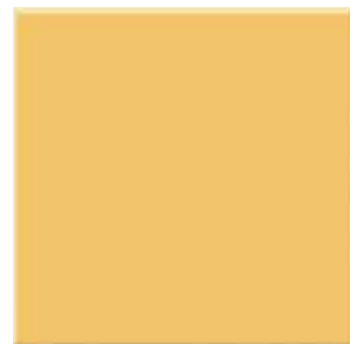
PRS49 Mimosa Satin



PRS84 Banana Satin



PRS54 Papaya Satin



PRS78 Yolk Satin

PRS12 White Satin

PRS79 Lime Satin

PRS42 Harebell Satin

PRS81 Lapis Satin

PRS54 Papaya Satin

PRS83 Cayenne Satin

prismatics  
satins 150 x 150mm



PRS14 Magnolia Satin



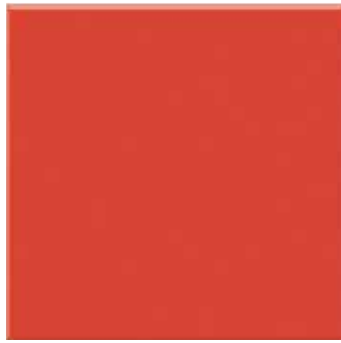
PRS47 Thistledown Satin



PRS74 Almond Satin

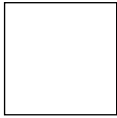


PRS77 Truffle Satin



PRS83 Cayenne Satin

AVAILABILITY (see pages 48-49)



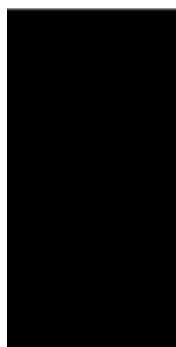
150 x 150 x 6.5mm

SPECIFICATION

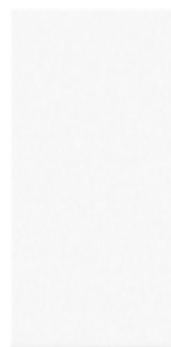
| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |

# prismatics

satins 200 x 100mm



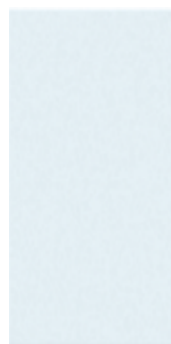
PRS13 Black Satin



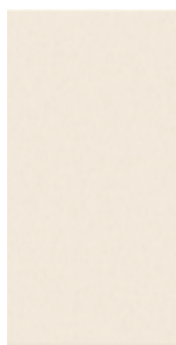
PRS12 White Satin



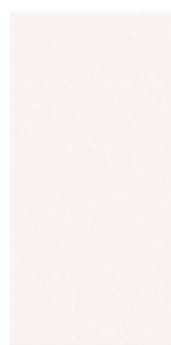
PRS15 Shark Satin



PRS42 Harebell Satin



PRS14 Magnolia Satin



PRS47 Thistledown Satin

AVAILABILITY (see pages 48-49)



200 x 100 x 6.5mm

## SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |



# satins



PRS49 Mimosa Satin



PRS54 Papaya Satin



PRS41 Peppermint Satin

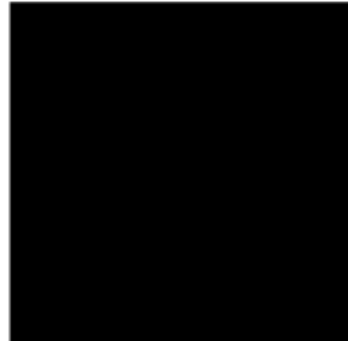


PRS14 Magnolia Satin  
Painting by ATA Designs

# satins



PRS41 Peppermint Satin 200 x 200mm  
PRS13 Black Satin 100 x 100mm  
Kitchenware by Absolut Form



PRS13 Black Satin

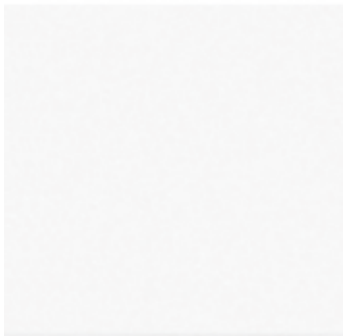


PRS15 Shark Satin



PRS14 Magnolia Satin

prismatics  
satins 200 x 200mm



PRS12 White Satin



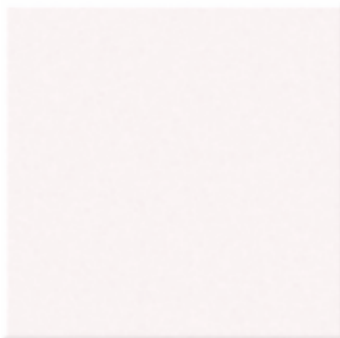
PRS49 Mimosa Satin



PRS42 Harebell Satin



PRS54 Papaya Satin

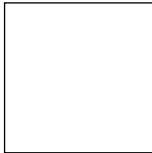


PRS47 Thistledown Satin



PRS41 Peppermint Satin

AVAILABILITY (see pages 48-49)

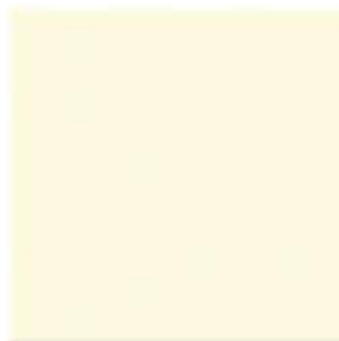


200 x 200 x 6.5mm

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |

prismatics  
gloss - orange/yellow



PRG53 Lemon Ice



PRG51 Mimosa



PRG52 Sunburst



PRG48 Goldcrest



PRG55 Pumpkin



PRG35 Redwood

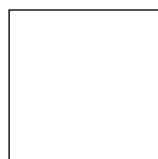


PRG56 Mango



PRG50 Sun Haze

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



100 x 100 x 6.5mm

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

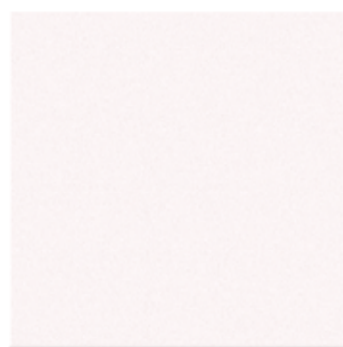


gloss



PRG55 Pumpkin 150 x 150mm  
ELUR5N Mocha Brown 450 x 450mm - Elements  
Chair by STPD

gloss



PRG39 Thistledown



PRG25 Thistle



PRV4 Victorian Maroon



PRG38 Morello



PRG37 Peach Melba



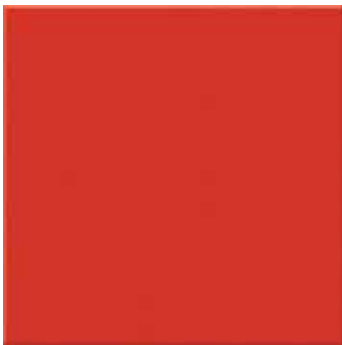
PRG34 Shell Pink

PRG38 Morello 200 x 100mm  
TERV15 Straw - Glass Mosaic  
ELMA5N 450 x 450mm Gothic Black - Elements

prismatics  
gloss - red/mauve



PRG18 Raspberry

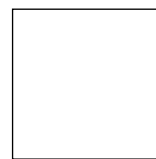


PRG19 Tomato



PRG36 Peach Sorbet

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



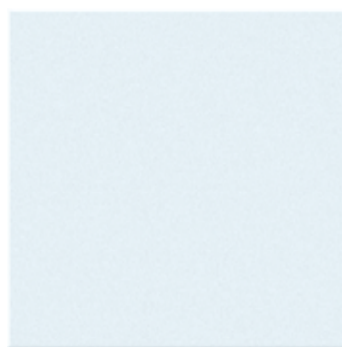
100 x 100 x 6.5mm

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

# prismatics

## gloss - blue/aqua



PRG32 Harebell



PRG33 Bluebell



PRV3 Victorian Blue



PRG16 Teal

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



100 x 100 x 6.5mm



PRG17 Spearmint



PRG28 Duck Egg

### SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

gloss



PRG46 Kingfisher



PRG44 Ocean Blue



PRG29 Glacier Blue



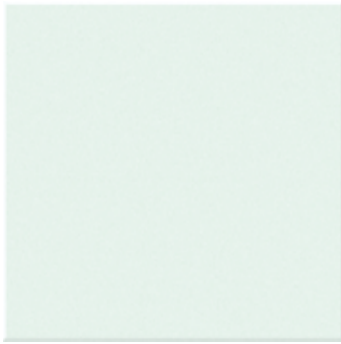
PRG16 Teal 200 x 200mm

gloss

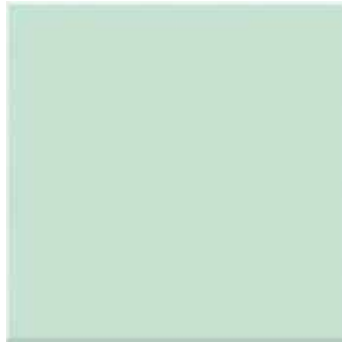




prismatics  
gloss - green



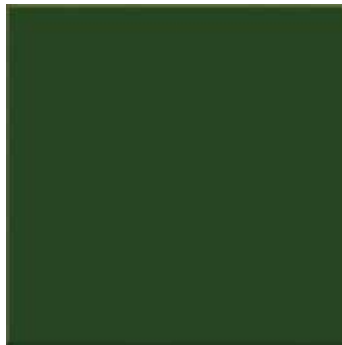
PRG45 Mintwater



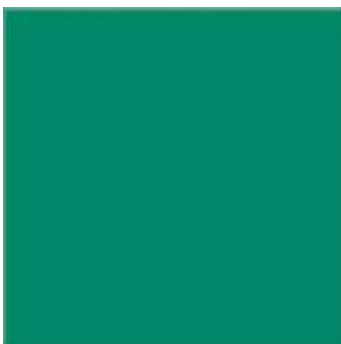
PRG43 Peppermint



PRG27 Deep Sea Green



PRV5 Victorian Green



PRG26 Palm Green



PRG30 Kiwi

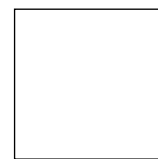


PRG40 Pistachio



PRG31 Oyster

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



100 x 100 x 6.5mm

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

prismatics  
gloss - natural



PRG20 Magnolia



PRV2 Victorian Cream



PRG10 Barley



PRG21 Sugarcane



PRG8 Cappuccino



PRG22 Chestnut

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



100 x 100 x 6.5mm



PRG9 Woodpigeon



PRG23 Rice

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

gloss



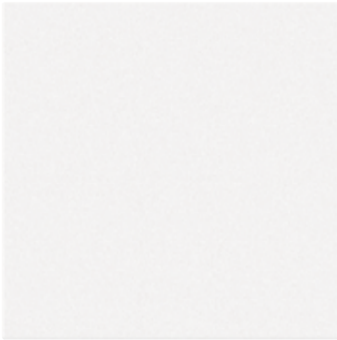
PRG22 Chestnut 200 x 200mm  
PRG30 Kiwi 200 x 100mm  
Vase by Simon Chim

gloss

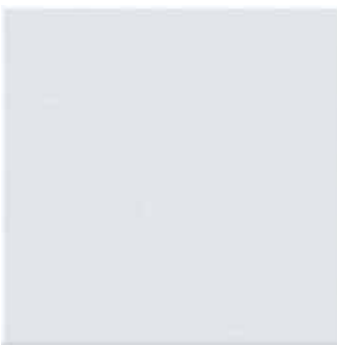


PRG11 Shark 100 x 100mm  
PRS15 Shark Satin 100 x 100mm  
KER47 Olympos 200 x 200mm - Kerastar  
Chair by Boss Design

prismatics  
gloss - monochrome



PRG1 White



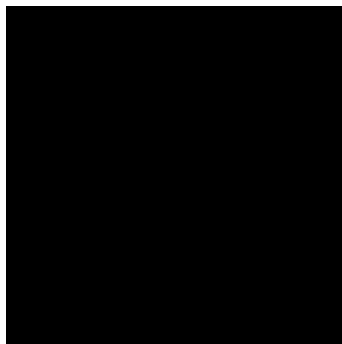
PRG11 Shark



PRG24 Storm Grey

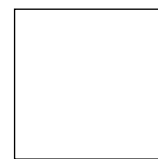


PRG7 Hawk Grey



PRG6 Black

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm



200 x 100 x 6.5mm



100 x 100 x 6.5mm

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

# prismatics micros



PRM57 White/Shark



PRM59 Rice/Storm Grey



PRM58 Storm Grey/Bluebell



PRM62 Barley/Sugarcane



PRM61 Rice/Victorian Green



PRM60 Magnolia/Redwood



PRM64 Magnolia/Cappuccino



PRM63 Rice/Raspberry

AVAILABILITY (see pages 48-49)



200 x 200 x 6.5mm



150 x 150 x 6.5mm

## SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

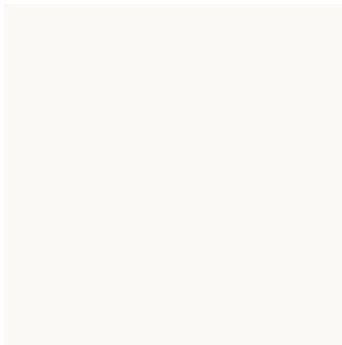


micros

large format



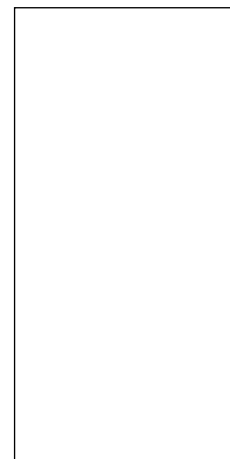
*ELMS13 Basalt Satin 300 x 300mm  
ELSD2N Black 600 x 300mm - Elements  
Chair by Boss Design*



ELMS12 Alabaster Satin

continued>>

AVAILABILITY (see pages 48-49)



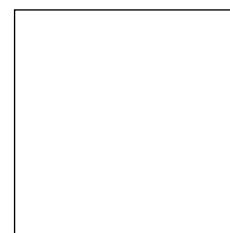
600 x 300 x 11mm



ELMS68 Slate Grey Satin



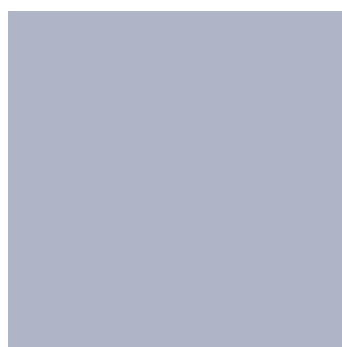
ELMS13 Basalt Satin



300 x 300 x 10mm



ELMS65 Tourmaline Satin



ELMS67 Marl Satin



300 x 100 x 10mm  
ELMS12 Alabaster Satin only

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |

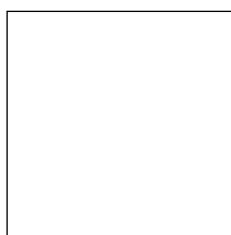
# prismatics

## large format

AVAILABILITY (see pages 48-49)



600 x 300 x 11mm

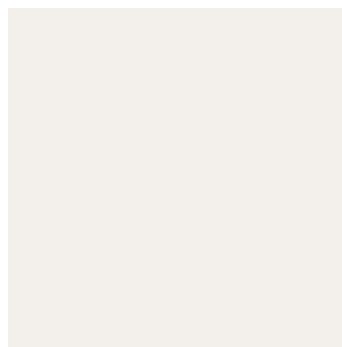


300 x 300 x 10mm

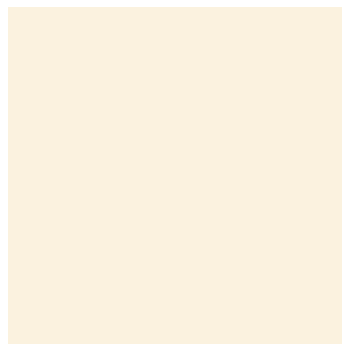


300 x 100 x 10mm

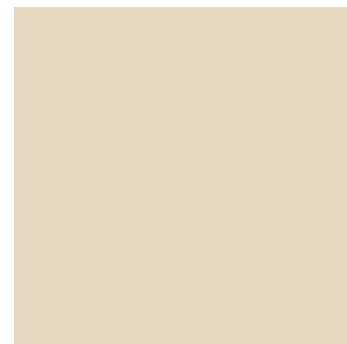
ATIC1A Arctic White Gloss only



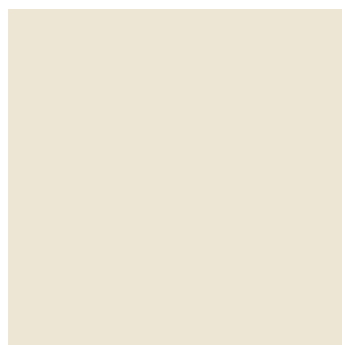
ELMS69 Silkstone Satin



ELMS70 Ivory Satin



ELMS71 Travertine Satin



ELMS66 Limestone Satin

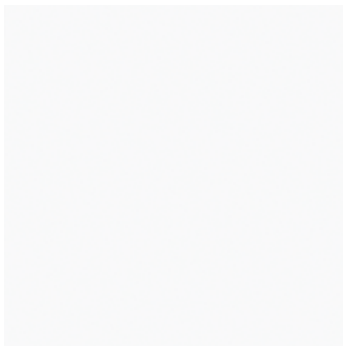


ELMS72 Clay Satin

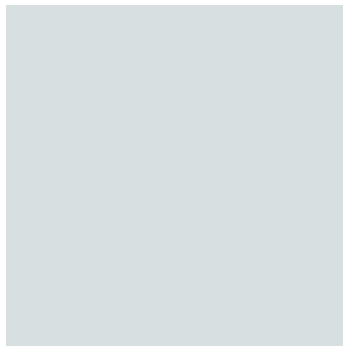
### SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Satin  |

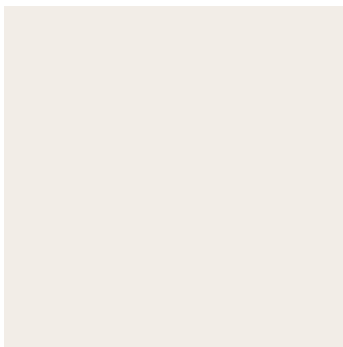
large format



ATIC1A Arctic White Gloss



EMLG11 Cement Gloss



ELMG23 Silkstone Gloss



ELMG6 Jet Gloss

SPECIFICATION

| Wall     | Floor | Other | Material       | Finish |
|----------|-------|-------|----------------|--------|
| Internal | -     | -     | Glazed Ceramic | Gloss  |

ELMS12 Alabaster Satin 600 x 300mm  
Light by Kaniez Abdi

# fittings



100 x 100 x 6.5mm  
RE (Round Edge)



100 x 100 x 6.5mm  
REX (Double Round Edge)



150 x 150 x 6.5mm  
RE (Round Edge)



150 x 150 x 6.5mm  
REX (Double Round Edge)



200 x 200 x 6.5mm  
RE (Round Edge)



200 x 200 x 6.5mm  
REX (Double Round Edge)



200 x 100 x 6.5mm  
RES (Round Edge Short Side)



200 x 100 x 6.5mm  
REL (Round Edge Long Side)



200 x 100 x 6.5mm  
HREX (Double Round Edge)



200 x 100 x 6.5mm  
REXH (Double Round Edge)

## SPECIFICATION

| Wall     | Floor | Other | Material       | Finish         |
|----------|-------|-------|----------------|----------------|
| Internal | -     | -     | Glazed Ceramic | Gloss or Satin |



# prismatics fittings



100 x 100 x 6.5mm  
Cove HRE Left Corner



100 x 100 x 6.5mm  
Cove



100 x 100 x 6.5mm  
Cove REH Right Corner



150 x 100 x 6.5mm  
Cove HRE Left Corner



150 x 100 x 6.5mm  
Cove



150 x 100 x 6.5mm  
Cove REH Right Corner



200 x 100 x 6.5mm  
Cove HRE Left Corner



200 x 100 x 6.5mm  
Cove



200 x 100 x 6.5mm  
Cove REH Right Corner



150mm  
Ceramic Bead  
Stop End



150mm  
Ceramic Bead



200mm  
Ceramic Bead  
Stop End



200mm  
Ceramic Bead

*All sizes indicated are metric modular.*

*Availability: PRG1 White Gloss stock items.*

*Other colours available to order.*

*Fittings not available in Micros finish or PRS73 to PRS87 inclusive.*

*All dimensions are in millimetres. All sizes shown are nominal.*

*See page 50 for line illustrations.*

## colour notations - satins

| Code  | Colour            | Reflectance Yl | NCS Lightness | NCS       | Pantone | Pantone Architectural | BS4800     | RAL Design | RAL K5  |
|-------|-------------------|----------------|---------------|-----------|---------|-----------------------|------------|------------|---------|
| PRS12 | White Satin       | 85.95          | 0.94          | 0500-N    | White   | 11-0604               | -          | 000 90 00  | 9010    |
| PRS13 | Black Satin       | 6.34           | 0.16          | 8500-N    | Black   | 19-0303               | -          | 000 15 00  | 9017    |
| PRS14 | Magnolia Satin    | 67.48          | 0.85          | 1010-Y40R | NM 7401 | 12-1403               | 08 B 17    | 075 90 10  | NM 1015 |
| PRS15 | Shark Satin       | 62.63          | 0.82          | 1502-G    | 413     | 13-4403               | NM 10 A 03 | 000 85 00  | 9018    |
| PRS41 | Peppermint Satin  | 62.38          | 0.82          | 1020-G    | 559     | 13-5911               | 14 C 35    | 160 80 15  | NM 6027 |
| PRS42 | Harebell Satin    | 66.15          | 0.84          | 1010-R90B | 5455    | 12-4305               | NM 20 C 33 | 230 90 05  | NM 7035 |
| PRS47 | Thistledown Satin | 69.18          | 0.86          | 1005-R    | NM 482  | 11-2409               | 04 B 15    | 010 90 05  | -       |
| PRS49 | Mimosa Satin      | 65.28          | 0.84          | 1020-Y20R | 607     | 12-0721               | NM 10 E 49 | 095 90 30  | NM 1016 |
| PRS54 | Papaya Satin      | 59.86          | 0.81          | 1030-Y30R | 1355    | 13-1027               | 06 E 50    | 070 80 40  | NM 1034 |
| PRS73 | Willow Satin      | 68.11          | 0.86          | 1010-G10Y | 5595    | 13-6006               | 14 C 31    | 130 80 10  | -       |
| PRS74 | Almond Satin      | 82.27          | 0.93          | 0505-Y80R | 489     | 13-1107               | 08 B 17    | 060 90 10  | -       |
| PRS75 | Buttermilk Satin  | 84.98          | 0.94          | 0505-Y20R | NM 4545 | 12-0804               | 10 C 31    | 095 90 10  | 1015    |
| PRS76 | Vanilla Satin     | 85.00          | 0.94          | 0505-G80Y | -       | 11-0105               | NM 10 C 31 | 090 90 10  | 1013    |
| PRS77 | Truffle Satin     | 32.19          | 0.57          | 4005-Y80R | 408     | 16-1406               | 08 B 21    | 020 70 05  | -       |
| PRS78 | Yolk Satin        | 61.03          | 0.81          | 1050-Y10R | 141     | 14-0837               | NM 10 C 35 | 085 80 60  | NM 1002 |
| PRS79 | Lime Satin        | 56.40          | 0.78          | 0565-G50Y | 381     | 14-0446               | 12 E 53    | 110 80 60  | -       |
| PRS80 | Aqua Satin        | 40.72          | 0.66          | 2030-B50G | 536     | 15-5209               | NM 16 C 37 | 190 70 20  | 6034    |
| PRS81 | Lapis Satin       | 25.02          | 0.48          | 2050-R80B | -       | 17-4027               | -          | 270 50 35  | NM 5023 |
| PRS82 | Sweet Pea Satin   | 33.60          | 0.58          | 2050-G20Y | NM 359  | 16-0237               | NM 14 E 51 | 140 60 40  | NM 6032 |
| PRS83 | Cayenne Satin     | 23.34          | 0.46          | 1070-Y90R | 179     | 17-1558               | 04 E 53    | 030 50 60  | 3000    |
| PRS84 | Banana Satin      | 69.91          | 0.87          | 0560-G90Y | 106     | 13-0746               | NM 10 E 53 | 090 90 60  | 1018    |
| PRS86 | Moleskin Satin    | 23.27          | 0.46          | 5005-R80B | 444     | 18-0000               | 00 A 09    | 000 50 00  | NM 7037 |
| PRS87 | Peacock Satin     | 17.72          | 0.37          | 4040-B30G | NM 549  | 18-4726               | NM 16 D 45 | 200 50 30  | NM 5018 |

*Note: These results are from H & R Johnson internal test reports and are to be used for guidance only.  
All colour notations marked as NM are Nearest Match.*

## colour notations - gloss

| Code  | Colour           | Reflectance Yl | NCS Lightness | NCS       | Pantone     | Pantone Architectural | BS4800     | RAL Design | RAL K5  |
|-------|------------------|----------------|---------------|-----------|-------------|-----------------------|------------|------------|---------|
| PRG1  | White            | 85.95          | 0.94          | 0500-N    | White       | 11-0604               | -          | 000 90 00  | 9010    |
| PRV2  | Victorian Cream  | 71.45          | 0.87          | 1005 Y20R | NM 7401     | 13-0907               | 08 C 31    | 080 90 10  | 1015    |
| PRV3  | Victorian Blue   | 5.56           | 0.14          | 7020 R60B | 275         | 13-3830               | NM 20 C 40 | 300 20 30  | NM 5022 |
| PRV4  | Victorian Maroon | 6.25           | 0.16          | 6030 R10B | 195         | 19-1522               | NM 02 C 39 | 020 30 30  | 3005    |
| PRV5  | Victorian Green  | 8.49           | 0.21          | 7020 G30Y | NM 574      | 19-0315               | NM 14 C 39 | 140 30 20  | NM 6020 |
| PRG6  | Black            | 4.47           | 0.12          | 9000-N    | Black       | 19-0303               | -          | 000 15 00  | 9017    |
| PRG7  | Hawk Grey        | 31.06          | 0.56          | 4005 B20G | 433         | 17-5102               | 18 B 21    | 220 60 05  | NM 7042 |
| PRG8  | Cappuccino       | 16.68          | 0.36          | 6010 Y30R | NM 4725     | 17-0808               | NM 08 B 25 | 060 50 20  | NM 8025 |
| PRG9  | Woodpigeon       | 32.19          | 0.57          | 4005 Y80R | 408         | 16-1406               | NM 04 B 21 | 040 60 05  | NM 7036 |
| PRG10 | Barley           | 56.64          | 0.78          | 2005 Y10R | NM 7500     | 12-0703               | 10 B 17    | 090 80 10  | NM 1014 |
| PRG11 | Shark            | 62.63          | 0.82          | 1502-G    | 413         | 13-4403               | NM 10 A 03 | 000 85 00  | 9018    |
| PRG16 | Teal             | 4.24           | 0.22          | 6030-B30G | 3025        | 19-4318               | NM 18 C 39 | 240 30 30  | 9010    |
| PRG17 | Spearmint        | 25.69          | 0.49          | 3040-B30G | NM 7472     | 16-5121               | NM 18 E 51 | 200 60 30  | 9017    |
| PRG18 | Raspberry        | 10.41          | 0.25          | 5030-R20B | 696         | 18-1718               | NM 02 C 39 | 350 40 30  | NM 4002 |
| PRG19 | Tomato           | 17.00          | 0.36          | 2070-Y80R | 180         | 17-1564               | NM 04 E 53 | 040 40 67  | 2002    |
| PRG20 | Magnolia         | 71.37          | 0.87          | 1005-Y40R | NM 7401     | 12-1403               | 08 B 17    | 075 90 10  | NM 1015 |
| PRG21 | Sugarcane        | 51.83          | 0.75          | 2020-Y    | 4535        | 13-0915               | NM 10 C 33 | 095 80 30  | 1000    |
| PRG22 | Chestnut         | 6.04           | 0.15          | 8010-Y70R | 4625        | 19-1235               | NM 08 B 29 | 040 20 19  | 8016    |
| PRG23 | Rice             | 69.96          | 0.87          | 1005-Y60R | Warm Grey 1 | 13-0002               | NM 04 B 15 | 060 90 05  | 9001    |
| PRG24 | Storm Grey       | 45.26          | 0.70          | 3000-N    | 400         | 14-4103               | 00 A 05    | 000 75 00  | NM 7030 |
| PRG25 | Thistle          | 26.63          | 0.50          | 3030-R40B | 687         | 16-3310               | NM 02 7 37 | 330 60 25  | NM 4008 |
| PRG26 | Palm Green       | 18.06          | 0.38          | 4040-G    | NM 555      | 18-6022               | 14 E 53    | 160 50 40  | 6024    |
| PRG27 | Deep Sea Green   | 9.24           | 0.22          | 6030-B30G | 5473        | 18-5418               | NM 16 D 45 | 200 30 20  | 5020    |
| PRG28 | Duck Egg         | 38.69          | 0.64          | 2030-B30G | 5493        | 15-4712               | NM 18 E 51 | 200 70 25  | 6034    |
| PRG29 | Glacier Blue     | 71.09          | 0.87          | 1005-B80G | NM 621      | 11-4805               | NM 18 E 49 | 160 90 05  | NM 9018 |
| PRG30 | Kiwi             | 35.18          | 0.60          | 3030-G50Y | NM 5777     | 15-0336               | NM 12 D 43 | 110 70 40  | NM 6025 |

## colour notations - gloss

| Code  | Colour       | Reflectance Yl | NCS Lightness | NCS       | Pantone | Pantone Architectural | BS4800     | RAL Design | RAL K5  |
|-------|--------------|----------------|---------------|-----------|---------|-----------------------|------------|------------|---------|
| PRG31 | Oyster       | 54.41          | 0.77          | 2010-G50Y | 5803    | 13-6105               | NM 12 B 17 | 110 80 10  | NM 9002 |
| PRG32 | Harebell     | 58.91          | 0.80          | 1010-R90B | 5455    | 12-4305               | NM 20 C 33 | 230 90 05  | NM 7035 |
| PRG33 | Bluebell     | 36.73          | 0.62          | 2030-R80B | 651     | 15-3920               | NM 20 E 51 | 260 70 20  | NM 5023 |
| PRG34 | Shell Pink   | 58.92          | 0.80          | 1020-Y70R | 7415    | 12-0915               | NM 04 C 33 | 050 80 20  | NM 3012 |
| PRG35 | Redwood      | 20.00          | 0.41          | 3050-Y70R | NM 7522 | 18-1447               | NM 06 D 45 | 050 50 50  | 2001    |
| PRG36 | Peach Sorbet | 69.96          | 0.87          | 1005-Y60R | NM 4755 | 12-1108               | NM 08 B 17 | 060 90 05  | NM 9001 |
| PRG37 | Peach Melba  | 57.40          | 0.79          | 1020-Y60R | 474     | 14-1224               | NM 06 C 33 | 060 80 20  | NM 3012 |
| PRG38 | Morello      | 11.20          | 0.26          | 3560-Y80R | 484     | 18-1354               | 04 D 45    | 040 40 50  | 3013    |
| PRG39 | Thistledown  | 69.18          | 0.86          | 1005-R    | NM 482  | 11-2409               | 04 B 15    | 010 90 05  | -       |
| PRG40 | Pistachio    | 62.28          | 0.82          | 1030-G50Y | 7492    | 13-0324               | NM 12 C 33 | 110 80 30  | -       |
| PRG43 | Peppermint   | 62.38          | 0.82          | 1020-G    | 559     | 13-5911               | 14 C 35    | 160 80 15  | NM 6027 |
| PRG44 | Ocean Blue   | 15.02          | 0.33          | 5030-B50G | 5483    | 19-5217               | NM 16 C 37 | 200 40 20  | NM 6004 |
| PRG45 | Mintwater    | 84.68          | 0.94          | 0510-G90Y | NM 5595 | 12-6207               | 14 C 31    | 140 90 05  | NM 9018 |
| PRG46 | Kingfisher   | 14.99          | 0.33          | 4040-R80B | 660     | 18-3945               | NM 20 D 45 | 280 40 40  | NM 5002 |
| PRG48 | Goldcrest    | 40.58          | 0.66          | 2060-Y10R | 124     | 15-1046               | NM 08 E 51 | 080 70 70  | 1005    |
| PRG50 | Sun Haze     | 65.28          | 0.84          | 1020-Y20R | 155     | 13-0917               | -          | 080 80 30  | NM 1001 |
| PRG51 | Mimosa       | 70.02          | 0.87          | 1020-Y    | 607     | 12-0721               | NM 10 E 49 | 095 90 30  | NM 1016 |
| PRG52 | Sunburst     | 70.01          | 0.87          | 0570-G90Y | 604     | 12-0752               | NM 10 E 53 | 090 80 90  | NM 1018 |
| PRG53 | Lemon Ice    | 84.68          | 0.94          | 0510-G90Y | NM 607  | 11-0104               | 12 B 15    | 100 90 10  | NM 1013 |
| PRG55 | Pumpkin      | 27.34          | 0.51          | 2070-Y40R | 1525    | 16-1253               | 06 E 56    | 060 60 70  | NM 2011 |
| PRG56 | Mango        | 55.02          | 0.77          | 1050-Y20R | 1365    | 13-0942               | NM 06 E 50 | 075 80 60  | 1017    |

Note: These results are from H & R Johnson internal test reports and are to be used for guidance only. All colour notations marked as NM are Nearest Match. For pattern tiles Reflectance, Lightness and Colour Notation values are for the general colour hue of the tile.

## colour notations - micros & large format

| Code          | Colour               | Reflectance Yl | NCS Lightness | NCS       | Pantone     | Pantone Architectural | BS4800     | RAL Design | RAL K5  |
|---------------|----------------------|----------------|---------------|-----------|-------------|-----------------------|------------|------------|---------|
| <b>Micros</b> |                      |                |               |           |             |                       |            |            |         |
| PRM57         | White/Shark          | 74.33          | 0.89          | 0500-N    | White       | 11-0604               | -          | 000 90 00  | 9010    |
| PRM58         | Storm Grey/Bluebell  | 45.26          | 0.70          | 3000-N    | 400         | 14-4103               | 00 A 05    | 000 75 00  | NM 7030 |
| PRM59         | Rice/Storm Grey      | 54.44          | 0.77          | 1005-Y60R | Warm Grey 1 | 13-0002               | NM 04 B 15 | 060 90 05  | 9001    |
| PRM60         | Magnolia/Redwood     | 54.71          | 0.77          | 1005-Y40R | NM 7401     | 12-1403               | 08 B 17    | 075 90 10  | NM 1015 |
| PRM61         | Rice/Victorian Green | 56.12          | 0.78          | 1005-Y60R | Warm Grey 1 | 13-0002               | NM 04 B 15 | 060 90 05  | 9001    |
| PRM62         | Barley/Sugarcane     | 52.25          | 0.75          | 2005 Y10R | NM 7500     | 12-0703               | 10 B 17    | 090 80 10  | NM 1014 |
| PRM63         | Rice/Raspberry       | 51.63          | 0.75          | 1005-Y60R | Warm Grey 1 | 13-0002               | NM 04 B 15 | 060 90 05  | 9001    |
| PRM64         | Magnolia/Capuccino   | 54.71          | 0.77          | 1005-Y40R | NM 7401     | 12-1403               | 08 B 17    | 075 90 10  | NM 1015 |

### Large Format Satin

|        |                  |       |      |           |             |         |            |           |         |
|--------|------------------|-------|------|-----------|-------------|---------|------------|-----------|---------|
| ELMS12 | Alabaster Satin  | 85.95 | 0.94 | 0500-N    | White       | 11-0604 | -          | 000 90 00 | 9010    |
| ELMS13 | Basalt Satin     | 6.34  | 0.16 | 8500-N    | Black       | 19-0303 | -          | 000 15 00 | 9017    |
| ELMS65 | Tourmaline Satin | 45.26 | 0.70 | 3010-B30G | 5503        | 16-5106 | -          | 210 70 10 | NM 6034 |
| ELMS66 | Limestone Satin  | 65.07 | 0.85 | 2005-Y20R | 7527        | 13-0905 | -          | 085 80 10 | NM 7032 |
| ELMS67 | Marl Satin       | 39.03 | 0.65 | 3010-R70B | NM 443      | 14-4203 | -          | 280 70 05 | NM 7004 |
| ELMS68 | Slate Grey Satin | 13.53 | 0.30 | 7005 R50B | 445         | 18-3905 | NM 00 A 13 | 300 40 05 | 7015    |
| ELMS69 | Silkstone Satin  | 74.33 | 0.90 | 1002 Y50R | Warm Grey 1 | 13-0002 | NM 04 B 15 | 060 90 05 | 9001    |
| ELMS70 | Ivory Satin      | 65.17 | 0.85 | 1010-Y20R | NM 4545     | 12-0812 | -          | 090 80 10 | NM 1014 |
| ELMS71 | Travertine Satin | 65.17 | 0.85 | 2010-Y20R | NM 4545     | 12-0605 | -          | 090 80 10 | NM 1014 |
| ELMS72 | Clay Satin       | 25.91 | 0.50 | 4005-Y80R | NM 7530     | 16-1506 | NM 04 B 21 | 020 60 05 | -       |

### Large Format Gloss

|        |                 |       |      |           |             |         |            |           |      |
|--------|-----------------|-------|------|-----------|-------------|---------|------------|-----------|------|
| ATIC1A | Arctic White    | 85.95 | 0.94 | 0500-N    | White       | 11-0604 | -          | 000 90 00 | 9010 |
| ELMG6  | Jet Gloss       | 4.47  | 0.12 | 9000-N    | Black       | 19-0303 | -          | 000 15 00 | 9017 |
| ELMG11 | Cement Gloss    | 65.17 | 0.85 | 1502-G    | 423         | 13-4403 | NM 10 A 03 | 000 85 00 | 9018 |
| ELMG23 | Silkstone Gloss | 74.33 | 0.90 | 1002-Y50R | Warm Grey 1 | 13-0002 | NM 04 B 15 | 060 90 05 | 9001 |

## availability satins

| Code  | Colour            | Price Group |                   |                   |                   |                   |
|-------|-------------------|-------------|-------------------|-------------------|-------------------|-------------------|
|       |                   |             | 100 x 100 x 6.5mm | 150 x 150 x 6.5mm | 200 x 100 x 6.5mm | 200 x 200 x 6.5mm |
| PRS12 | White Satin       | 1           | ■                 | ■                 | ■                 | ■                 |
| PRS13 | Black Satin       | 3           | ■                 | ■                 | ■                 | ■                 |
| PRS14 | Magnolia Satin    | 2           | ■                 | ■                 | ■                 | ○                 |
| PRS15 | Shark Satin       | 2           | ■                 | ■                 | ■                 | ○                 |
| PRS41 | Peppermint Satin  | 2           | ■                 | ■                 | ○                 | ○                 |
| PRS42 | Harebell Satin    | 2           | ■                 | ■                 | ■                 | ○                 |
| PRS47 | Thistledown Satin | 2           | ■                 | ■                 | ■                 | ○                 |
| PRS49 | Mimosa Satin      | 2           | ■                 | ■                 | ○                 | ○                 |
| PRS54 | Papaya Satin      | 2           | ■                 | ■                 | ○                 | ○                 |
| PRS73 | Willow Satin      | 2           | ■                 | ■                 |                   |                   |
| PRS74 | Almond Satin      | 2           | ■                 | ■                 |                   |                   |
| PRS75 | Buttermilk Satin  | 2           | ■                 | ■                 |                   |                   |
| PRS76 | Vanilla Satin     | 2           | ■                 | ■                 |                   |                   |
| PRS77 | Truffle Satin     | 2           | ■                 | ■                 |                   |                   |
| PRS78 | Yolk Satin        | 2           | ■                 | ■                 |                   |                   |
| PRS79 | Lime Satin        | 2           | ■                 | ■                 |                   |                   |
| PRS80 | Aqua Satin        | 2           | ■                 | ■                 |                   |                   |
| PRS81 | Lapis Satin       | 3           | ■                 | ■                 |                   |                   |
| PRS82 | Sweet Pea Satin   | 3           | ■                 | ■                 |                   |                   |
| PRS83 | Cayenne Satin     | 3           | ■                 | ■                 |                   |                   |
| PRS84 | Banana Satin      | 3           | ■                 | ■                 |                   |                   |
| PRS86 | Moleskin Satin    | 3           | ■                 | ■                 |                   |                   |
| PRS87 | Peacock Satin     | 3           | ■                 | ■                 |                   |                   |

■ Stock

○ Made to Order

## gloss

| Code  | Colour           | Price Group |                   |                   |                   |                   |
|-------|------------------|-------------|-------------------|-------------------|-------------------|-------------------|
|       |                  |             | 100 x 100 x 6.5mm | 150 x 150 x 6.5mm | 200 x 100 x 6.5mm | 200 x 200 x 6.5mm |
| PRG1  | White            | 1           | ■                 | ■                 | ■                 | ■                 |
| PRV2  | Victorian Cream  | 2           | ■                 | ■                 | ■                 | ○                 |
| PRV3  | Victorian Blue   | 3           | ■                 | ■                 | ■                 | ■                 |
| PRV4  | Victorian Maroon | 3           | ■                 | ■                 | ■                 | ■                 |
| PRV5  | Victorian Green  | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG6  | Black            | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG7  | Hawk Grey        | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG8  | Cappuccino       | 3           | ■                 | ■                 | ○                 | ○                 |
| PRG9  | Woodpigeon       | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG10 | Barley           | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG11 | Shark            | 2           | ■                 | ■                 | ■                 | ■                 |
| PRG16 | Teal             | 3           | ■                 | ■                 | ■                 | ○                 |
| PRG17 | Spearmint        | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG18 | Raspberry        | 3           | ■                 | ■                 | ○                 | ○                 |
| PRG19 | Tomato           | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG20 | Magnolia         | 2           | ■                 | ■                 | ■                 | ■                 |
| PRG21 | Sugarcane        | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG22 | Chestnut         | 3           | ■                 | ■                 | ■                 | ○                 |
| PRG23 | Rice             | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG24 | Storm Grey       | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG25 | Thistle          | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG26 | Palm Green       | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG27 | Deep Sea Green   | 3           | ■                 | ■                 | ■                 | ○                 |
| PRG28 | Duck Egg         | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG29 | Glacier Blue     | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG30 | Kiwi             | 2           | ■                 | ■                 | ○                 | ○                 |



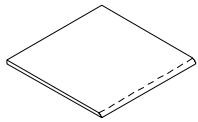
## gloss

| Code  | Colour       | Price Group |                   |                   |                   |                   |
|-------|--------------|-------------|-------------------|-------------------|-------------------|-------------------|
|       |              |             | 100 x 100 x 6.5mm | 150 x 150 x 6.5mm | 200 x 100 x 6.5mm | 200 x 200 x 6.5mm |
| PRG31 | Oyster       | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG32 | Harebell     | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG33 | Bluebell     | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG34 | Shell Pink   | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG35 | Redwood      | 3           | ■                 | ■                 | ■                 | ○                 |
| PRG36 | Peach Sorbet | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG37 | Peach Melba  | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG38 | Morello      | 3           | ■                 | ■                 | ○                 | ○                 |
| PRG39 | Thistledown  | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG40 | Pistachio    | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG43 | Peppermint   | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG44 | Ocean Blue   | 3           | ■                 | ■                 | ○                 | ○                 |
| PRG45 | Mintwater    | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG46 | Kingfisher   | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG48 | Goldcrest    | 3           | ■                 | ■                 | ○                 | ○                 |
| PRG50 | Sun Haze     | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG51 | Mimosa       | 2           | ■                 | ■                 | ○                 | ○                 |
| PRG52 | Sunburst     | 3           | ■                 | ■                 | ■                 | ■                 |
| PRG53 | Lemon Ice    | 2           | ■                 | ■                 | ■                 | ○                 |
| PRG55 | Pumpkin      | 3           | ■                 | ■                 | ■                 | ○                 |
| PRG56 | Mango        | 2           | ■                 | ■                 | ■                 | ○                 |

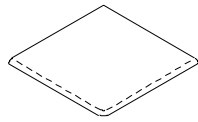
## micros / large format

| Code                      | Colour               | Price Group |                   |                   |                  |                  |                  |
|---------------------------|----------------------|-------------|-------------------|-------------------|------------------|------------------|------------------|
|                           |                      |             | 150 x 150 x 6.5mm | 200 x 200 x 6.5mm | 300 x 300 x 10mm | 600 x 300 x 11mm | 300 x 100 x 10mm |
| <b>Micros</b>             |                      |             |                   |                   |                  |                  |                  |
| PRM57                     | White/Shark          | 2           | ■                 | ■                 |                  |                  |                  |
| PRM58                     | Storm Grey/Bluebell  | 2           | ■                 | ■                 |                  |                  |                  |
| PRM59                     | Rice/Storm Grey      | 2           | ■                 | ■                 |                  |                  |                  |
| PRM60                     | Magnolia/Redwood     | 2           | ■                 | ■                 |                  |                  |                  |
| PRM61                     | Rice/Victorian Green | 2           | ■                 | ■                 |                  |                  |                  |
| PRM62                     | Barley/Sugarcane     | 2           | ■                 | ■                 |                  |                  |                  |
| PRM63                     | Rice/Raspberry       | 2           | ■                 | ■                 |                  |                  |                  |
| PRM64                     | Magnolia/Cappuccino  | 2           | ■                 | ■                 |                  |                  |                  |
| <b>Large Format Satin</b> |                      |             |                   |                   |                  |                  |                  |
| ELMS12                    | Alabaster Satin      | -           |                   |                   | ■                | ■                | ■                |
| ELMS13                    | Basalt Satin         | -           |                   |                   | ■                | ■                |                  |
| ELMS65                    | Tourmaline Satin     | -           |                   |                   | ■                | ■                |                  |
| ELMS66                    | Limestone Satin      | -           |                   |                   | ■                | ■                |                  |
| ELMS67                    | Marl Satin           | -           |                   |                   | ■                | ■                |                  |
| ELMS68                    | Slate Grey Satin     | -           |                   |                   | ■                | ■                |                  |
| ELMS69                    | Silkstone Satin      | -           |                   |                   | ■                | ■                |                  |
| ELMS70                    | Ivory Satin          | -           |                   |                   | ■                | ■                |                  |
| ELMS71                    | Travertine Satin     | -           |                   |                   | ■                | ■                |                  |
| ELMS72                    | Clay Satin           | -           |                   |                   | ■                | ■                |                  |
| <b>Large Format Gloss</b> |                      |             |                   |                   |                  |                  |                  |
| ATIC1A                    | Arctic White         | -           |                   |                   | ■                | ■                | ■                |
| ELMG6                     | Jet Gloss            | -           |                   |                   | ■                | ■                |                  |
| ELMG11                    | Cement Gloss         | -           |                   |                   | ■                | ■                |                  |
| ELMG23                    | Silkstone Gloss      | -           |                   |                   | ■                | ■                |                  |

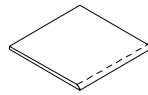
## prismatics fittings



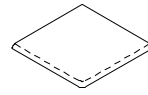
200 x 200 x 6.5mm RE



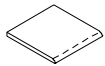
200 x 200 x 6.5mm REX



150 x 150 x 6.5mm RE



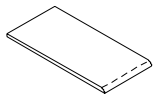
150 x 150 x 6.5mm REX



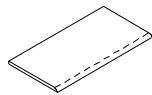
100 x 100 x 6.5mm RE



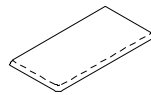
100 x 100 x 6.5mm REX



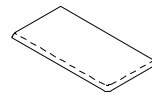
200 x 100 x 6.5mm RES



200 x 100 x 6.5mm REL



200 x 100 x 6.5mm REXH



200 x 100 x 6.5mm HREX



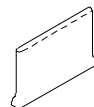
100 x 100 x 6.5mm  
Cove HRE



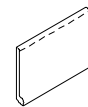
100 x 100 x 6.5mm  
Cove



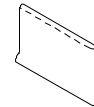
100 x 100 x 6.5mm  
Cove REH



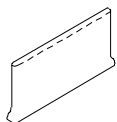
150 x 100 x 6.5mm  
Cove HRE



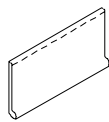
150 x 100 x 6.5mm  
Cove



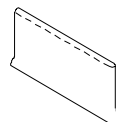
150 x 100 x 6.5mm  
Cove REH



200 x 100 x 6.5mm  
Cove HRE



200 x 100 x 6.5mm  
Cove



200 x 100 x 6.5mm  
Cove REH



150mm  
Ceramic Bead



150mm  
Ceramic Bead  
Stop End



200mm  
Ceramic Bead



200mm  
Ceramic Bead  
Stop End

All sizes indicated are metric modular.

Availability: PRG1 White Gloss stock items.















Other colours available to order.

Fittings not available in Micros finish or PRS73 to PRS87 inclusive.

All dimensions are in millimetres. All sizes shown are nominal.

See pages 42-43 for fittings photographs.

## physical properties

| Test  | Standard                       | Requirement             | Typical Test Value  |
|---|--------------------------------|-------------------------|---|
|  Length/Width            | 10545-2 (BS6431:Part10/EN98)   | ±0.5%                   | ±0.25%  |
|  Warpage                 | 10545-2 (BS6431:Part10/EN98)   | Max 0.5%                | Max 0.3%  |
|  Rectangularity          | 10545-2 (BS6431:Part10/EN98)   | ±0.5%                   | ±0.4%   |
|  Straightness of Side    | 10545-2 (BS6431:Part10/EN98)   | ±0.3%                   | ±0.15%  |
|  Water Absorption        | 10545-3 (BS6431:Part11/EN99)   | 10% to 20%              | 15% to 17%  |
|  Modulus of Rupture      | 10545-4 (BS6431:Part12/EN100)  | Ave 15N/mm <sup>2</sup> | 25N/mm <sup>2</sup>   |
|  Scratch Hardness        | BS6431:Part13/EN101            | ≥3                      | 4   |
|  Frost Resistance      | Not Applicable                 |                         | Not suitable for installations where temperatures may fall below freezing |
|  Crazing Resistance    | 10545-11 (BS6431:Part17/EN105) | Pass                    | Pass  |
|  Chemical Resistance   | 10545-13 (BS6431:Part19/EN122) | Class C                 | Class A-B (better)  |
|  Stain Resistance      | 10545-14 (BS6431:Part19/EN122) | Min Class 3             | Class 3 (better)  |
|  Fire Rating           |                                |                         | Class 0 Non Combustable   |
|  UV Colour Resistance  |                                |                         | Unaffected by light   |
|  Weight/m <sup>2</sup> |                                |                         |   |
| Product Thickness 6.5mm   |                                |                         | 11kgs   |
| Product Thickness 10mm  |                                |                         | 17.2kgs   |
| Product Thickness 11mm  |                                |                         | 18.5kgs   |

*Prismatics are classed as BIII products*

# installation

## Codes of Practice

All fixing of glazed tiles should be in accordance with the following codes of practice guidelines:

**BS5385 Part 1 – 1995** (Code of practice for the design and installation of internal wall tiling and mosaics in normal conditions)

**BS5385 Part 4 – 1992** (Code of practice for ceramic tiling and mosaic in specific conditions)

**BS8000 Section 11.1 – 1989** (Workmanship on Building Sites, Part 11, Code of practice for wall and floor tiling).

Prismatics are classed as *B///* products and require the use of adhesives classification D1 or D2.

## Substrates

Before tiling is commenced it is important to ensure that the correct minimum curing periods have been observed for all substrates:

Concrete – 6 weeks

Rendering (non modified) – 2 weeks

Gypsum Plastering – 4 weeks

Brickwork/Blockwork – 6 weeks

Accuracy of the substrate must be checked to ensure that the guidance given in BS5385 has been achieved i.e. "local variations in level for a nominally flat floor or wall should be such that, when checked with a 2m straightedge, any gap under the straightedge between points of contact does not exceed 3mm".

## Movement Joints in Wall Tiles

The location, type and scope of all movement joints must be ascertained prior to any fixing works. All structural joints must be followed through to the face of the tile at full width with intermediate movement joints (minimum 6mm wide) being situated at:

Changes of plane (including internal wall corners)

Wall/floor junctions

Where tiling abuts other materials

For walls 3m to 4.5m maximum centres both horizontally and vertically

Movement joints can either be filled with a suitable backer, bond breaker and filler (e.g. silicone – please check with manufacturer for suitability) or be of the pre-formed variety.

## Fixing Prismatics

All tiles should be fixed with a notched bed trowel to achieve the required minimum adhesive coverage for the installation type, this ensures maximum durability and strength within the installation and long term adhesion performance. It is good practice to periodically remove a recently fixed tile to ensure that the correct bedding is being achieved and maintained. When fixing all tiles care must be taken to ensure that no lipping occurs.

## Adhesives

Adhesives should be in accordance with BS EN 12004, Class D1, D2 or C1, C2. Particular adhesive choice will be governed by the substrate.

H & R Johnson recommend the use of Johnson's Professional adhesives and grouts - see below.

## Grouts

The choice of grout type should reflect the expected service conditions of the installation.

For general internal wall tiling in dry conditions grouts should be class CG1 i.e. Johnson Professional Fine Joint Grout. For walls subject to frequent wetting ie showers and pool halls grout should be class CG2 i.e. Johnson Professional No Mould Flexible Grout.

For walls where hygiene is important ie commercial kitchens and hospitals grout should be class RG1 i.e. Johnson Professional Easy Clean Epoxy.

For specific adhesive or grout advice please contact Johnson Professional helpline 0870 609 2851

| <b>Substrate</b>    | <b>Johnson's Professional Adhesive</b>                            |
|---------------------|---|
| Concrete            | One Part Flexible   |
| Brickwork/Blockwork | One Part Flexible   |
| Sand/Cement Render  | One Part Flexible   |
| Plaster Gypsum      | One Part Flexible<br>Prime with Johnson Professional Prime & Seal |
| Plasterboard        | One Part Flexible<br>Prime with Johnson Professional Prime & Seal |

## cleaning

Maintaining the appearance and characteristics of glazed tiles is achieved with the implementation of a suitable cleaning regime. It must be stressed that the cleaning material manufacturers instructions must be followed at all times.

### Builders Clean

This should be undertaken prior to a wall being brought into service. The builders clean removes any residual film left over from the grouting operation and is a one off cleaning process. It is imperative that this is carried out as any grout residues left behind will act as a key for dirt.

### Cementitious Grouts

The use of a mild acid decementing solution followed by thorough rinsing will remove all but the most stubborn of cement residues.

### Epoxide Grouts

It is essential that ALL residue be removed from the surface of the tile during the grouting process and before the resin cures. Failure to achieve this will result in a very difficult and expensive process using gel-type epoxide removers.

### Routine Cleaning

The regular use of detergents or other cleaning agents which are excessively acidic or alkaline could cause irreversible damage to the tile surface and should not be used.

### Manual Cleaning

Glazed wall tiles can be wiped with warm water to which a neutral or nearly neutral detergent has been added.

### Periodic Deep Cleaning

Occasionally foreign matter may cause surface marks that cannot be removed with the usual cleaning processes and materials. If the surface mark cannot be removed, other materials should be considered (it is advisable to experiment on a small inconspicuous area):

**Paint** – Paint Remover

**Organic Stains** – Bleach or one off treatment with washing soda

**Oil, Fat, Grease** – Detergent or degreaser

**Mould Growth** – Household bleach or proprietary cleaner

**Tea, Coffee, Ink** – Household bleach or proprietary cleaner

**Abrasive powders or cleaners should never be used on ceramic tiles.**

## dda - disability discrimination act

The Disability Discrimination Act 1995 (DDA) introduced new measures to prevent discrimination against disabled people. The Act was broadened in 2005 to form the current Disability Discrimination Act 2005.

The DDA requires accessible environments to be provided for disabled people, either in their place of work or for access to goods, services or facilities (public spaces). Those commissioning new buildings or adaptations to existing buildings must consider the implications of the DDA and their ability to provide buildings that do not discriminate against disabled people (physical or mental impairments).

When specifying ceramics there are 2 main areas of relevance within the DDA.

### Colour Reflectance (Contrast)

The DDA gives guidance on good visual contrast for the visually impaired between various elements of a building by the use of Light Reflectance Values (LRV).

LRV is a general term for contrast and is measured as the proportion of useful light reflected by a coloured object, floor, wall or ceiling. LRV is measured on a scale of 0 to 100 where 0 is perfect black and 100 perfect white (in reality 0 and 100 are unobtainable colours). According to NCS Colour Centre in practical terms black is approx 6 and white approx 85. See page 44-47 for values.

The current guidelines from Building Regulations Approved Document M on contrast are that a minimum difference of 30 LRV points should be specified for adjacent surfaces to ensure that visually impaired people are not discriminated against. In the specific example of ceramic tiles this difference should be between:

**Floors to walls**

**Ceiling to walls**

**Handrails to walls**

**Sanitary fittings to walls**

Visual contrast between floors and walls is important in enabling visually impaired people to assess and gauge the size and shape of a room. It is important that the greatest visual contrast occurs where the floor meets the wall (skirting) as this gives the most accurate visual indication of the extent of the room. Where provided, skirtings should contrast visually with the floor and be similar in colour and tone to the wall surface.

### Tactile Foot Braille (*see Kerastar or Elements literature for details*)

Recommendations from the Department of the Environment, Transport and the Regions (DETR), the joint mobility unit of the RNIB and the Centre for Accessible Environments (CAE) led to the need for Tactiles to be used as warning features for stairs, ramps and platforms.

Available in 400x400x10mm format and in 2 colour options the Johnson Tactile System offers compliance with not only the DDA requirements but also the DETR, RNIB and CAE recommendations. Specified correctly the Johnson Tactile System will ensure that any new building Access Audits will be compliant with the Access to Goods and Services part of the DDA.

The Johnson Tactile System is manufactured to the highest technical and performance standards. The surface of the Tactile products have the enhanced performance qualities of a slip resistance durundum inclusion in the surface of the tile.

The Corduroy profile is designed to warn visually impaired people of the presence of specific hazards. Such a profile is "Foot Braille" and is a warning associated with steps, ramps or the approach to on-street light rapid transit platforms. The Corduroy profile is an internationally accepted Tactile surface that conveys the message of hazard and implies proceed with caution.

The Blister profile is designed to warn visually impaired people of the edge of all off-street platforms. The profile consists of a series of offset, flat topped dome studs. The parallel rows of studs are designed to be installed at right angles to the direction of traffic and are normally located behind the platform edge coping.

*This information is not exhaustive and the requirements at the time of specification must be checked.*

*BS8300:2001 Amendment 1 indicates that there is anecdotal evidence to suggest that a 20 point LRV difference may be sufficient – especially where large adjacent areas are involved.*

*It must be noted that the guidance on LRV values given in this brochure is correct at the time of print. This is a subject that may be reviewed by the regulatory body at any time so it is advisable to check the guidelines at the time of specification of product.*

*The DDA details given in this brochure are to be used as an outline guide only and are the details as H & R Johnson understand them at the time of print. If in doubt of any details contained herein the Act should be read in full.*

## general information



FM 26818



BS EN 14411  
LIC No. 7325



ISO 14001  
EMS 40817



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### Quality Standards

Prismatic tiles are quality products conforming to the technical specification detailed on page 51.

### Environmental Management

H & R Johnson Tiles Limited, Harewood Street, Tunstall, Stoke on Trent has achieved ISO 14001 for Environmental Management Systems at its Stoke on Trent factory.

### Colour

The Prismatics range is notated by the Natural Colour System (NCS).

Reference guides to other colour referencing systems are also given in this publication.

### Fitness for Purpose

For specific suitability and fitness for purpose details contact the Technical Helpline or visit the website: [www.johnson-ceramics.com](http://www.johnson-ceramics.com)

### Tile Sizes

All tile sizes in this brochure are nominal metric modular and include a nominal 3mm joint.

### Important

During the course of manufacture of all ceramic tiles some variation in shade or pattern can occur. Before fixing tiles several cartons should be opened and the contents mixed to ensure that the size, shade, colour and patterning are acceptable.

**H&R Johnson cannot accept responsibility for any tiles that have been fixed.**

Nothing in these statements does or will affect the statutory rights of the consumer.

Samples Tel: 01782 524064

Fax: 01782 524138

Email: [techsales@johnson-tiles.com](mailto:techsales@johnson-tiles.com)

Technical Helpline Tel: 0845 210 3000

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International Technical Helpline:

+44 (0) 1782 524067

[www.johnson-ceramics.com](http://www.johnson-ceramics.com)

H & R Johnson recommend the use of adhesives and grouts from the Johnson Professional range. For further information and a detailed fixing specification please contact 0870 609 2851.

The colours shown on the tile products in this brochure are as accurate as the limitations of the printing process will allow. Please refer to actual product samples before purchasing.

Every effort has been made to ensure the accuracy of the information given in this literature. In the interests of progress, however, H & R Johnson reserve the right to change specifications and availability without prior notice.

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