A BEAUTIFULLY NATURAL PRODUCT
The appeal of concrete masonry is the natural characteristics and variation of aggregates featured within the mix. Similar to the features of real stone, our concrete bricks will have natural variation in colours and characteristics. So when choosing Firth concrete bricks, please expect colour hue variations, and regional differences due to locally sourced raw materials. It’s all part of a beautifully natural product.

We advise viewing full sized bricks before making your final decision. Contact your local Firth office, they’ll be happy to help, call 0800 Firth 1.

+DESIGNER BRICK

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Cover page image:
Manorstone®: Rumbled Tranquility
Dricon® Mortar: Matakan Cream
Laid: Stretcher Bond

This page image:
Manorstone®: Antique White
Dricon® Mortar: Natural
Laid: Stretcher Bond
WHY FIRTH DESIGNER BRICK?

WEATHER TIGHT
Cool in summer, warm in winter, Firth brick homes are constructed using a cavity design, which is one of the most effective ways to avoid leak related damage and keep your home healthy and dry.

SUSTAINABILITY
All Firth bricks are Red List free and have Declare certification. Declare is like a nutrition label for the building industry that clearly states what ingredients make up a product. It is designed to help shape a greener, healthier environment.

TRUE COLOUR
Solid colour pigment throughout the brick helps reduce the visibility of any chips that may occur in laying and through its life cycle.

Source: NZ Timber Design Society Weather Tightness – A Review of Exterior Wall Assemblies
**Source: BRANZ cladding costs over a lifetime. Apr 2015

Manorstone® Antique White
Dricon® Mortar: Natural
Laid: Stretcher Bond
DURABLE
Firth bricks are made from concrete. Their unfailing strength and stability gives you peace of mind. Brick controls moisture more effectively than any other building product*, protecting you against harsh weather conditions, moisture, rot, mould, pests or insects. Firth bricks are proven to last the test of time, they will be around for years to come and all bricks come with a manufacturer’s warranty.

LOW MAINTENANCE
Firth bricks stay looking great with easy care, they do not rot or require paint. Brick is expected to last twice as long as most weatherboard products**.

DESIGN FLEXIBILITY
With an inspiring range of on-trend colour tones, sizes, laying options and finishes. Clad your entire home or create feature walls.

NOISE CONTROL
Concrete brick has excellent acoustic ratings and it absorbs noise more effectively than many other building materials.

TECHNICAL SUPPORT
Our technical team are here to help every step of the way
CALL 0800 FIRTH 1
FOCUS® BRICK

SMALLER STYLE BRICK FOR A CONTEMPORARY LOOK

Focus® Brick: Premium White
Dricon® Mortar: Pumice
Laid: Stretcher Bond
FOCUS® BRICK

BRICK SIZE

S M L

DIMENSIONS

230 x 90 x 75mm

UNITS PER M²

42 (70 Series)
48 (90 Series)

Note: Colour tones and face textures may vary due to locally sourced materials. Colours depicted are subject to the limitations of colour printing process.

FOCUS® BRICK COLOUR RANGE

1 Premium White
2 Urban Grey
**Design Cues**

- Concrete brick can be adopted as a feature in the home, mixed with weatherboard cladding to provide a visual break from the neutral horizontal lines.

- Enhance the architectural dimensions of your home with a traditional, smaller size brick for a modern and visually striking home.

- Create an understated natural look with a light colour palette to blend effortlessly with the surrounding landscape.

**COLOURS + MORTAR**

1. Colour: Premium White  
   Mortar: Premium White

2. Colour: Urban Grey  
   Mortar: Charcoal

TIP - Choose a matching or contrasting mortar colour to personalise the look of your home.
Devonstone®: Antique White
Dricon® Mortar: Pumice
Laid: Stretcher Bond

FIRTH’S MOST POPULAR BRICK PROVIDES A NATURAL LOOK TO YOUR DESIGN
**BRICK SIZE**

| S | M | L |

**DIMENSIONS**

290 x 160 x 70mm

**UNITS PER M²**

20

**DEVONSTONE® COLOUR RANGE**

1. Premium White (North Island only)
2. Urban Grey
3. Antique White
4. Tranquility
5. Graphite (South Island only)

*Note:* Colour tones and face textures may vary due to locally sourced materials. Colours depicted are subject to the limitations of colour printing process.
Design Cues

• For a traditional look, keep your colour palette simple and choose colours that complement each element of the building ie. roof, joinery, gutters, driveway.

• Stack bonded concrete bricks can add a real sense of architectural design to an area where you want to create a strong decorative statement, interior or exterior.

• Selecting either a complementary or contrasting coloured mortar from Dricon® will further enhance the appearance of Devonstone® built homes. See page 20 for options.
LARGE CONCRETE BRICK RESEMBLING NATURAL STONE

Manorstone® Rumbled: Tranquility
Dricon® Mortar: Tranquility
Laid: Stretcher Bond
MANORSTONE® COLOUR RANGE

1. Premium White (North Island only)
2. Urban Grey
3. Antique White
4. Tranquility
5. Graphite (South Island only)

Note: Colour tones and face textures may vary due to locally sourced materials. Colours depicted are subject to the limitations of colour printing process.

BRICK SIZE

S  M  L

DIMENSIONS

390 x 190 x 90mm

UNITS PER M²

12.5
**Design Cues**

- Utilise a range of complementary cladding types to add dimension to a building project. Unpainted, stack bonded concrete block will draw attention to an area and express its strength.

- Downlighting creates depth to your finish, enhancing/highlighting the texture and design of the brick.

- A natural stone coloured brick works beautifully with the features of your garden, acting as a neutral canvas for the landscape elements to shine.

- Raked mortar joint is recommended for interior use only to prevent the creation of efflorescence through water pooling. See page 21 for options.

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**COLOURS + MORTAR**

1. Colour: Premium White  
   Mortar: Premium White  
2. Colour: Urban Grey  
   Mortar: Natural  
3. Colour: Antique White (Rumbled)  
   Mortar: Tranquility  
4. Colour: Tranquility  
   Mortar: Pumice  
5. Colour: Graphite (South Island only)  
   Mortar: Charcoal
Create an on-trend finish for your bricks that will highlight the contours and texture of the bricks and mortar joints, with a splash of colour to match your design. A smooth surface, or an uneven earthy surface – choose the look you desire.

**On trend**

**BAGGED + PAINTED BRICK**

Create an on-trend finish for your bricks that will highlight the contours and texture of the bricks and mortar joints, with a splash of colour to match your design. A smooth surface, or an uneven earthy surface – choose the look you desire.

**TIP:** Talk to your professional to define the look and application you want.
Disclaimer: Please keep in mind when choosing Firth concrete products, the beauty and appeal of concrete means there will be natural variation in colours. Colours may vary from batch to batch, and regionally as materials are natural and sourced locally. We advise viewing a current product sample before making your final decision, please contact your local Firth office and they will be happy to assist.
PERSONALISE YOUR DESIGN WITH A COMPLEMENTARY OR CONTRASTING DRICON® COLOURED MORTAR

DRICON® COLOURED MORTAR

Coloured mortar joints can further transform your design. Choose from the comprehensive range of Dricon® mortar colours which have been designed to complement the Designer Brick Series range.

![Coloured Mortar Swatches](image)

DRICON® ARCHITECTURAL MORTAR

The Dricon® Architectural Masonry Mortars have been specifically created to be water resistant.

![Architectural Mortar Swatches](image)

Note: Colour tones may vary due to locally sourced materials. Colours depicted are subject to the limitations of colour printing process.
Different mortar colour can dramatically change the look of your cladding. Below is Manorstone® Antique White designer brick in a stack bond layout with three different mortar colours.

**Dricon® Premium White**

**Dricon® Charcoal**

**Dricon® Natural**

**MORTAR JOINTS**

Once you have selected your colour you can select the style for the mortar joint - concave/rolled, raked or flush - each of these will alter the architectural appearance of the mortar joint.

For more detailed information and to gain best results from Dricon® mortars, download a copy of the Dricon® brochure at [www.firth.co.nz/resources/brochures/](http://www.firth.co.nz/resources/brochures/)

<table>
<thead>
<tr>
<th>Concave/rolled</th>
<th>Flush</th>
<th>Raked (interior only)</th>
</tr>
</thead>
</table>

Raked joints are not recommended for exterior.

**LAYOUT**

Different layouts can transform the look and feel of the entire design. Create vertical clean straight lines with the stack bond design or take on a more traditional look with the stretcher bond design.

**Stack Bond**

Stack bond is outside the scope of NZS4229 and NZ3604 and will require specific engineer’s design.

10 Series Veneer stack bonded construction guide is available from the NZCMA website [nzcma.org.nz](http://nzcma.org.nz) in the veneers section.

**Stretcher Bond**

Stretcher bond is also known as running bond and is the traditional method of masonry construction.

**ONLINE TOOLS**

Our Masonry Veneers Planner is a handy online tool that lets you choose your preferred style and colour of brick and match it with your choice of coloured mortar. Visit [firth.co.nz/resources/planners-and-calculators/](http://firth.co.nz/resources/planners-and-calculators/) for more.
CONSTRUCTION

Firth control joint (alternative slip joint)
Control joints controlling wall movements shall be achieved by providing a bond break between blocks and mortar at the specified locations.

In Joint Reinforcing
A guide for the correct installation of In Joint Reinforcing for stack bond masonry can be found on the NZCMA website nzcma.org.nz/masonry-manual.aspx

Two Storey Design
Veneer construction shall be in accordance with E2/AS1 [limited to single storey].

For two-storey application specific design is required. A technical guide for Devonstone and Manorstone are available at firth.co.nz/residential/designer-bricks/

BRICK TOLERANCES AND AESTHETIC APPEARANCE

It is possible for a brick veneer to be building code compliant but not have the visual look that reflects the skills of an experienced bricklayer. This is referred to as ‘workmanship quality’.

It is important to discuss with your bricklayer the aesthetic look you are hoping to achieve with your brick veneer and if possible, include them in your selection process.

COLOUR VARIATION

TIP: To ensure a uniform colour finish, Firth recommends purchasing your masonry from one location, preferably from the same batch as minor colour variations do occur due to natural variance in raw materials. When installing masonry, mix and match units from multiple pallets to ensure a uniform mix of colours.

HONING GREY MASONRY

If deciding to hone ordinary grey masonry walls, when constructed, it’s likely there will be medium to extreme colour variation between units. This variation can result in overall colour variation across the wall, which becomes enhanced, when honed and sealed.

VIEWING DISTANCE

Due to the nature of bricks no two bricks are the same and no brick is perfect when examined close-up. ASTM C90 has been adopted as the industry standard for viewing brickwork – it states that ‘for exposed wall construction chips and imperfections shall not be evident when viewed from a distance of not less than 6.1m in diffused light’.

RESOURCES

For further resources please refer to:

Or visit the Firth website www.firth.co.nz/resources/technical-documents/ for the following:
- Firth Brick Veneer Technical Guide
- Firth Architectural Masonry Best Practice Guide

GENERAL

Customers should ensure that all delivered products are acceptable, and any concerns about products are notified to Firth prior to laying. All warranty claims should be made prior to the product being laid.

TIP: To ensure a uniform colour finish, Firth recommends purchasing your masonry from one location, preferably from the same batch as minor colour variations do occur due to natural variance in raw materials. When installing masonry, mix and match units from multiple pallets to ensure a uniform mix of colours.
CARING FOR DESIGNER BRICK

EFFLORESCENCE

Efflorescence is a natural phenomenon experienced to a variety of degrees by all concrete products and is to be anticipated on any job. It is a deposit of white salts carried to the surface of the masonry by water, and happens most commonly when the brick and mortar are exposed to moisture. Efflorescence will likely continue to occur until the moisture source is stopped, usually by sealing. Efflorescence can calcify with time and become difficult to remove. Efflorescence is not considered to be a material defect, but rather a naturally occurring issue common to all forms of concrete masonry. While Firth attempts to minimise the occurrence of efflorescence, we are unable to prevent or control this occurrence.

TRADE TIPS

THERE ARE SOME EASY WAYS YOU CAN MINIMISE THE RISK OF EFFLORESCENCE:

1. If you receive your concrete masonry products and it’s going to be a few weeks before you install them, unwrap the pallet and if possible store them in a covered, dry place so they don’t get wet.
2. During the construction process protect masonry walls from moisture and wet weather.
3. Once construction is completed (or during construction in some cases) allow walls to dry and then seal them with a suitable sealer (subject to the manufacturer’s specification).
4. Garden walls or walls not protected by a roof will need to be waterproofed at the top with a suitable waterproofing system.

WHAT CAN YOU DO TO MINIMISE THE VISUAL IMPACT OF EFFLORESCENCE?

If efflorescence does occur it should be removed immediately as if left, it is likely to calcify and will become difficult to remove. Some helpful tips include:

1. Remove the efflorescence immediately after it occurs. It should be scrubbed off with a stiff brush whilst it is still in its soft powdered form.
2. If required, treat the surface with a specific masonry cleaning product, Firth recommends Dricon® Concrete Treatment. Always trial a small, less visible area first to determine if you are getting the result that you want as these products can change the appearance of the surface.
3. If required, treat the surface with a mechanical cleaning process such as light sanding, polishing or grinding. Always trial a small less visible area first to determine if you are getting the result that you want as these processes will change the appearance of the surface.
4. Seal the wall as soon as possible with a suitable sealer to prevent moisture getting in. Note: garden walls or walls not protected by a roof will need to be waterproofed at the top with a suitable waterproofing system.
5. Firth strongly recommends engaging a professional contractor to provide advice and offer cleaning, sealing and waterproofing solutions.

CLEANING

We recommend an annual inspection to check for requirement of cleaning. One of the reasons that concrete masonry is a popular choice, is its proven performance and durability. Concrete bricks and blocks have been designed for external use so they are well suited to stand up to the elements. Usually any stains or marks can be removed with a stiff brush, water and detergent or low pressure water washing (take care not to damage masonry and mortar with pressure washing). If you are particularly worried about stains occurring, we recommend sealing your concrete masonry walls with a suitable sealer.

SEALING HELPS MINIMISE EFFLORESCENCE AND MOULD GROWTH

Firth recommends sealing all masonry walls as soon as practical to minimise efflorescence and reduce mould growth as soon as practical rather than after the project is completed. Suitable products should be selected to pre-clean the surface if required; repel water and minimise efflorescence & mould growth and, if required, provide a barrier to graffiti. Some sealers will enrich the depth of the masonry colour. It is also essential that a suitable waterproof membrane is applied to the top of an exposed wall before installing any capping. Retaining walls will require a tanking membrane on the retaining side, suitable waterproofing at the top, as well as sealing. Refer to your sealer manufacturer’s instructions for product application and maintenance information.
CONCRETE & MASONRY PRODUCTS: A SUSTAINABLE BUILDING OPTION & SOLUTION

- Environmentally compliant manufacturing plants
- Surplus water and some aggregates recycled
- Low transport impacts
- Leftover concrete returned from construction sites
- Passive solar heated thermal mass makes completed buildings more energy-efficient
- Most wash water returned from construction sites
- Highly durable, low maintenance buildings and no rot
- High degree of noise control
- Inherent fire resistance
- Overall longer effective building life
- Demolished concrete can be recycled as hard fill or aggregate

For further information & product samples please contact Firth on 0800 800 576 or visit www.firth.co.nz

Colours and finishes are subject to change. Please keep in mind when you are choosing Designer Bricks, you are dealing with a natural material that can be influenced by a number of factors. While every care has been taken to obtain an accurate representation, the aggregates and oxides used to create the Firth Designer Brick and Architectural Masonry samples are natural products and as a result some variations will occur. ©Firth Industries 2018. All rights reserved. Content in this document is protected under the Copyright Act 1994. No material may be reproduced in whole or in part without the written consent of the copyright holder. Firth/Dricon supplies products on the assumption that they are always used in accordance with the product’s instructions/specifications, good trade practice and any relevant New Zealand Standards.