

PAVING

CONCEPTS BY FIRTH



WHY FIRTH PAVING?

- 1 90 YEAR PROUD HISTORY**
We've been developing, making and delivering concrete and concrete products to New Zealanders for almost a century.
- 2 INDUSTRY LEADING**
Our technical team ensure you get top quality product that you can rely on.
- 3 CONSISTENT PRODUCT STRENGTH**
Engineered and manufactured to ensure consistency of strength and durability.
- 4 HIGHEST RATING**
All of our products are formulated to meet strict NZ standards.
- 5 KIWI MADE**
Our pavers and retaining blocks are all made from locally sourced materials.
- 6 TRADE TRUSTED**
So you can be sure what we make, makes the grade. Always.
- 7 INNOVATION THAT ENDURES**
Our designers work closely with our engineers to ensure new designs will stand the test of time.

MADE TO ORDER

If you can't find a colour or design mix that you're looking for, please contact your local stockist or Firth Sales representative. For Made To Order stock, minimum order quantities will apply.



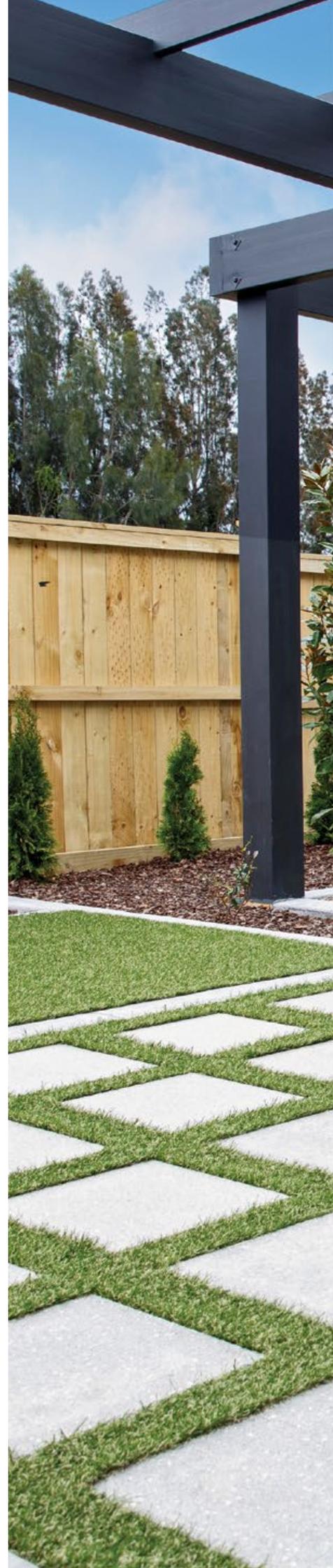
A BEAUTIFULLY NATURAL PRODUCT

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 products will have natural variation in colours and characteristics. So when choosing Firth concrete paving, please expect colour hue variations and regional differences due to locally sourced materials. It's all part of a beautifully natural product.

We advise viewing our products before making your final decision. Contact your local merchant, they'll be happy to help.

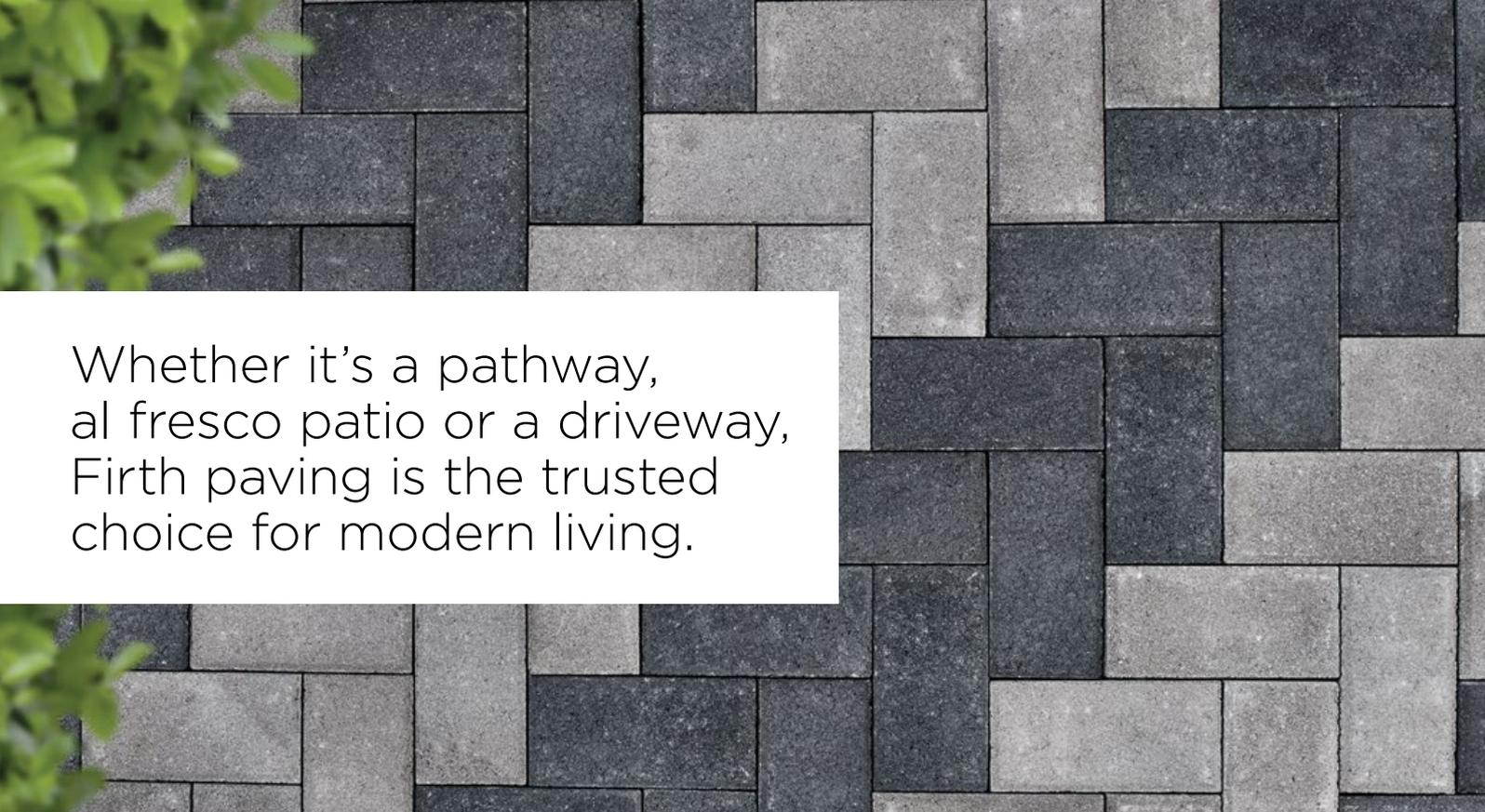
Cover: Forum® - Volcanic Ash honed

Right: Forum® - Volcanic Ash honed





6	Forum® 50
8	Piazza® 50
10	Chancery® 50
12	Courtyard Flagstone™ 50
14	Holland® 50
15	Holland® 80 Set
16	Walkway Paver 50
18	Holland® FlowPave
18	Holland® FlowPave Set
19	Holland® PorousPave
20	Patio Paver
21	Grass Paver
21	Gobi® Block
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23	Building Product Warranty



Whether it's a pathway,
al fresco patio or a driveway,
Firth paving is the trusted
choice for modern living.

Holland® - Black Sands & Volcanic Ash



DESIGNER FINISH

A stylish honed paving range that allows you to achieve a premium finish, and is complementary in size and colour, offering you more flexibility & creativity.



CLASSIC FINISH

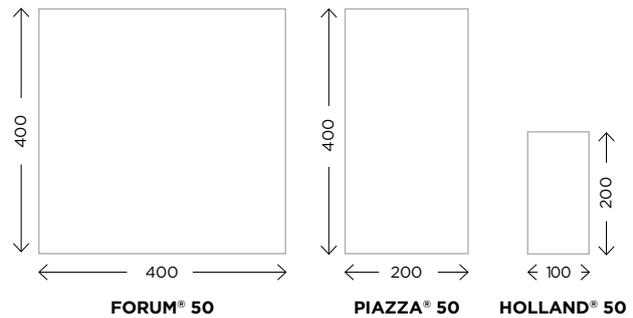
The Firth Classic Collection showcases fair faced pavers in both classic and contemporary colours to create unique living spaces that truly reflect your taste & style.

Holland® - Black Sands & Volcanic Ash
 Piazza® - Volcanic Ash Honed and Glacier Honed
 Forum® Glacier Honed & Sealed



INTERCHANGEABLE SIZING

Applies to Forum® 50, Piazza® 50 & Holland® 50 only. Look for the **i**. Forum® dimensions are twice the size of the Piazza®. This offers the ability to incorporate a large format and medium format paver in your design. Pair Holland® with Forum® or Piazza® pavers to create interest with striking patterns.



DECLARE

We are proud to be the 1st concrete manufacturer in the world to get Declare labels for our ready-mix concrete and our concrete masonry products. Declare is an ingredients initiative for building products that is designed to shape a greener, healthier environment.



SEALING

We recommend sealing pavers with a water based acrylic sealant. As well as increasing long term durability and colour retention, sealing reduces maintenance required for stains and cleaning. Honed pavers must be sealed once laid as it is a honed product. All pavers are delivered unsealed.





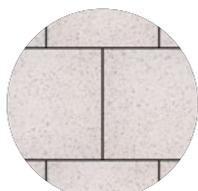
6

FORUM[®] 50

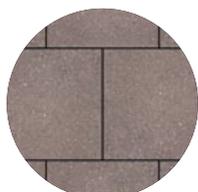
These hard wearing and impressive pavers provide designers and homeowners with a perfectly integrated, natural, tile-looking hardscape. Dimensions are twice the size of the Piazza[®] 50. This offers the ability to incorporate a large format and medium format paver in your design.

6.25 units per m²

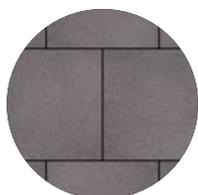
HONED FINISH:



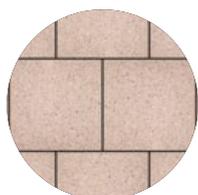
Glacier Honed



Volcanic Ash Honed



Black Sands Honed



Sumner Honed

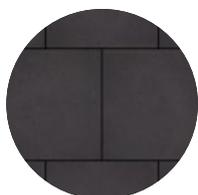
FAIR FACED FINISH:



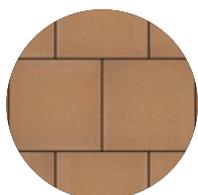
Glacier



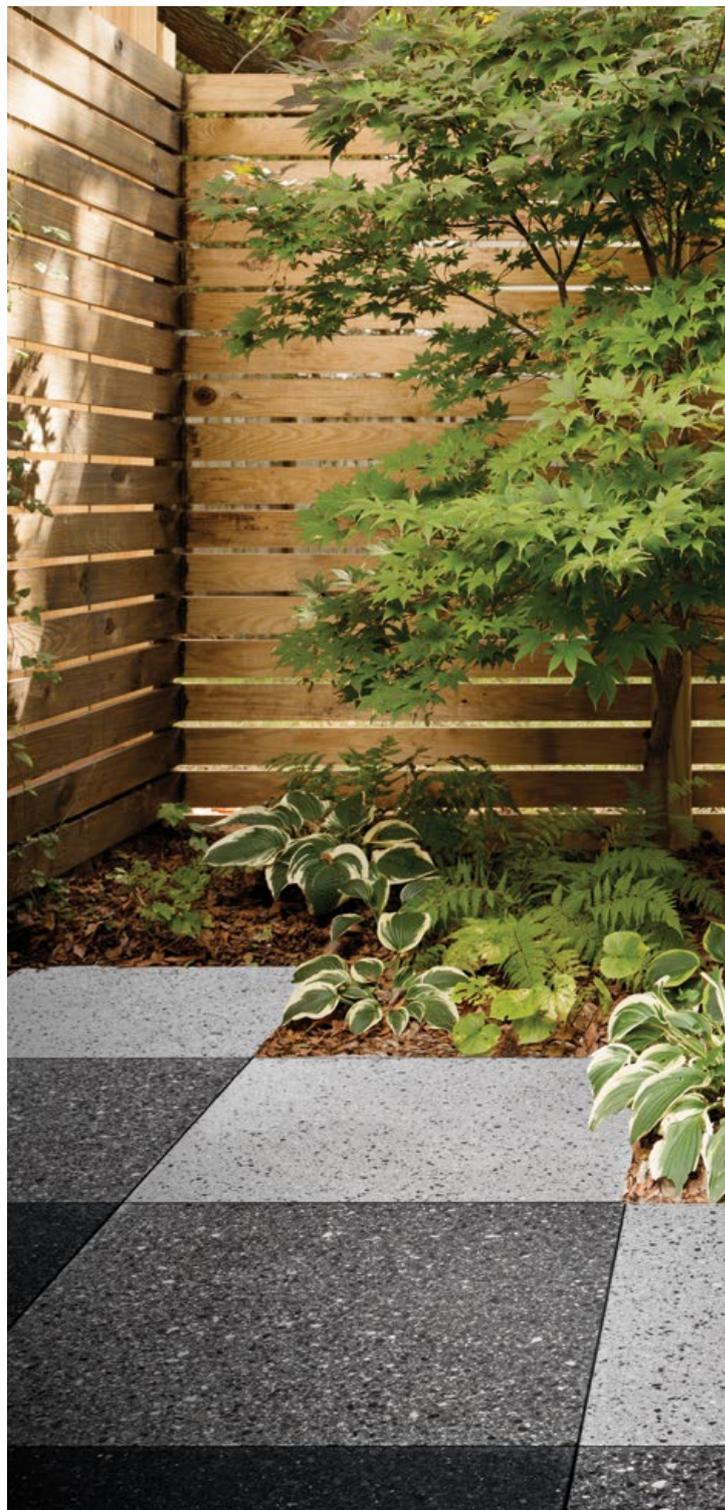
Volcanic Ash



Black Sands



Sumner



Forum[®] - Black Sands Honed, Volcanic Ash Honed, Glacier Honed - Sealed



Made To Order
options available



Interchangeable with
Piazza[®] 50 & Holland[®]
50 pavers



Patios and
walkways

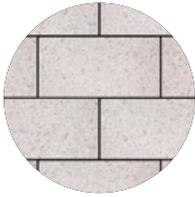


PIAZZA® 50

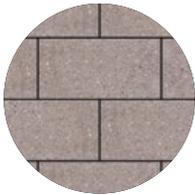
With its medium size and nicely balanced dimensions, the Piazza® 50 paver is perfect for making smaller areas appear visually larger without distracting from the living space. Get creative by partnering with the Forum® 50 paver or Holland® 50 pavers.

12.5 units per m²

HONED FINISH:



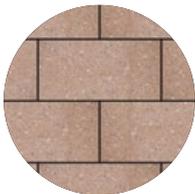
Glacier Honed



Volcanic Ash Honed

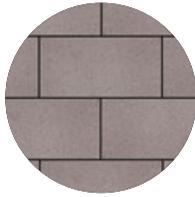


Black Sands Honed

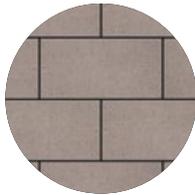


Sumner Honed

FAIR FACED FINISH:



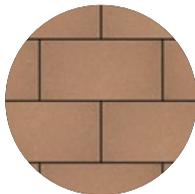
Glacier



Volcanic Ash



Black Sands



Sumner



Piazza® - Black Sands Honed & Volcanic Ash Honed



Made To Order
options available



Interchangeable
with Forum® 50 &
Holland® 50 pavers



Patios and
walkways



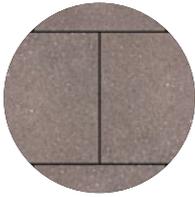
10

CHANCERY[®] 50

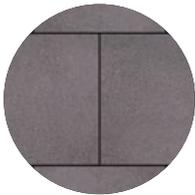
Firth Chancery[®] 50 pavers are a larger format paver in a range of vibrant, fashionable colours - providing a versatile way to bring your indoors outside. Chancery[®] 50 pavers larger size make them more economical and faster to lay, requiring only four pavers per square metre.

4 units per m²

HONED FINISH:

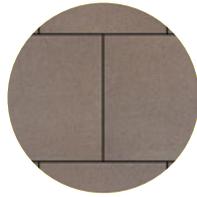


Volcanic Ash Honed



Black Sands Honed

FAIR FACED FINISH:



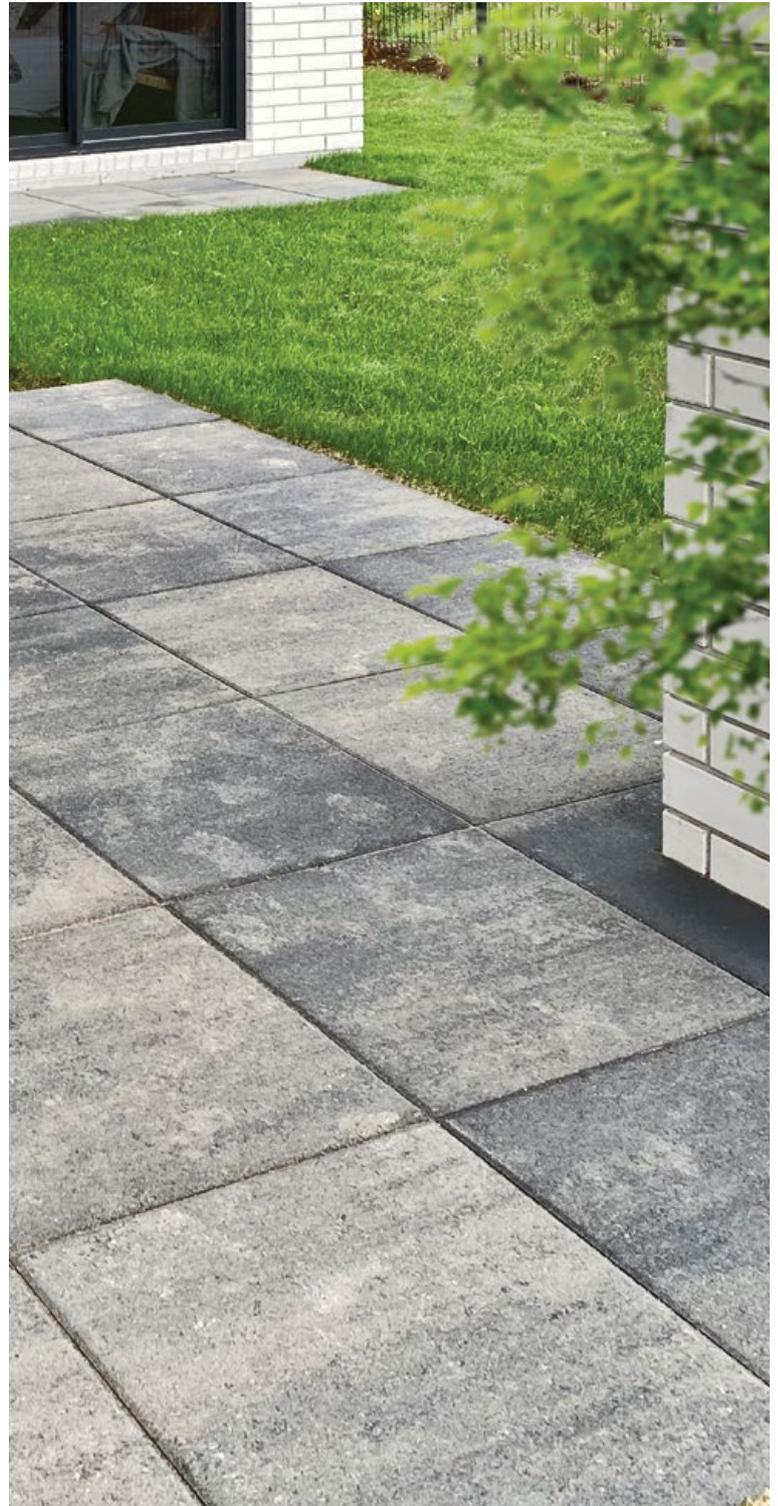
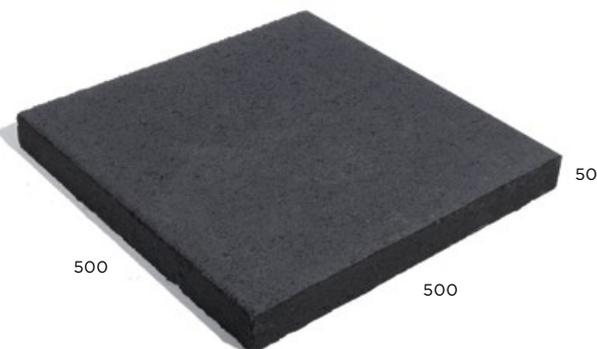
Volcanic Ash



Black Sands



Thunderstorm



Chancery[®] - Thunderstorm



Patios and walkways

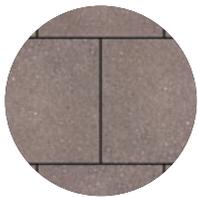


COURTYARD FLAGSTONE™ 50

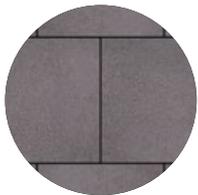
Firth Courtyard Flagstone™ 50 pavers are a classically attractive option for outdoor areas. They are suitable for covering larger areas, as well as for pathways.

5 units per m²

HONED FINISH:



Volcanic Ash Honed

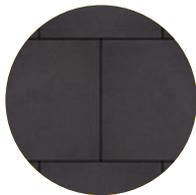


Black Sands Honed

FAIR FACED FINISH:



Volcanic Ash



Black Sands



Terracotta



Courtyard Flagstone™ - Volcanic Ash & Black Sands

MTO

Made To Order
options available



Patios and
walkways

HOLLAND[®] 50

The economical and highly versatile Holland paver offers a hard wearing solution for any footpath or patio need. Pair with Forum or Piazza pavers to create interest with striking patterns.

50 units per m²

HONED FINISH:



Volcanic Ash Honed

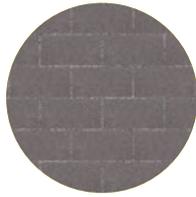


Black Sands Honed



Sumner Honed

FAIR FACED FINISH:



Volcanic Ash



Black Sands



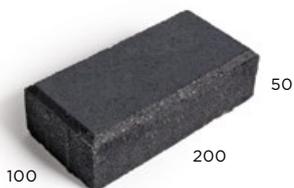
Sumner



Terracotta



Holland[®] - Black Sands Honed



100

200

50



Patios and walkways



Interchangeable with Forum[®] 50 & Holland[®] 50 pavers



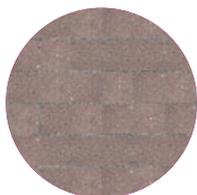
Driveways

HOLLAND[®] 80 SET

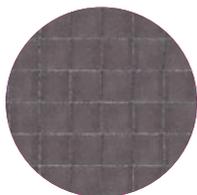
The trademark cobbled-looking surface of the Holland Set gives you the ability to create a traditional stone look. Holland Sets are robust enough for a number of different design applications from urban vehicular rumble strips to parking bays. For upmarket bespoke concrete driveways you can incorporate bands of Holland Sets.

50 units per m²

HONED FINISH:

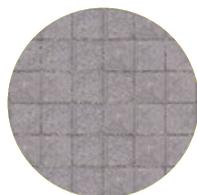


Natural Honed



Black Sands Honed

FAIR FACED FINISH:



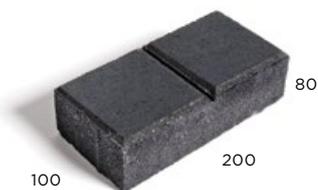
Natural



Black Sands



Holland[®] Set - Black Sands Honed & Black Sands Bush Hammered (MTO)



100

200

80



Patios and walkways



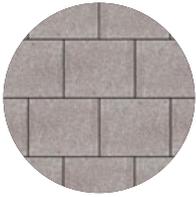
Driveways

WALKWAY PAVER 50

The economical Walkway Paver 50 is perfect for light vehicle driveways as well as foot traffic areas.

23 units per m²

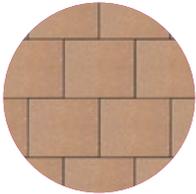
FAIR FACED FINISH:



Volcanic Ash



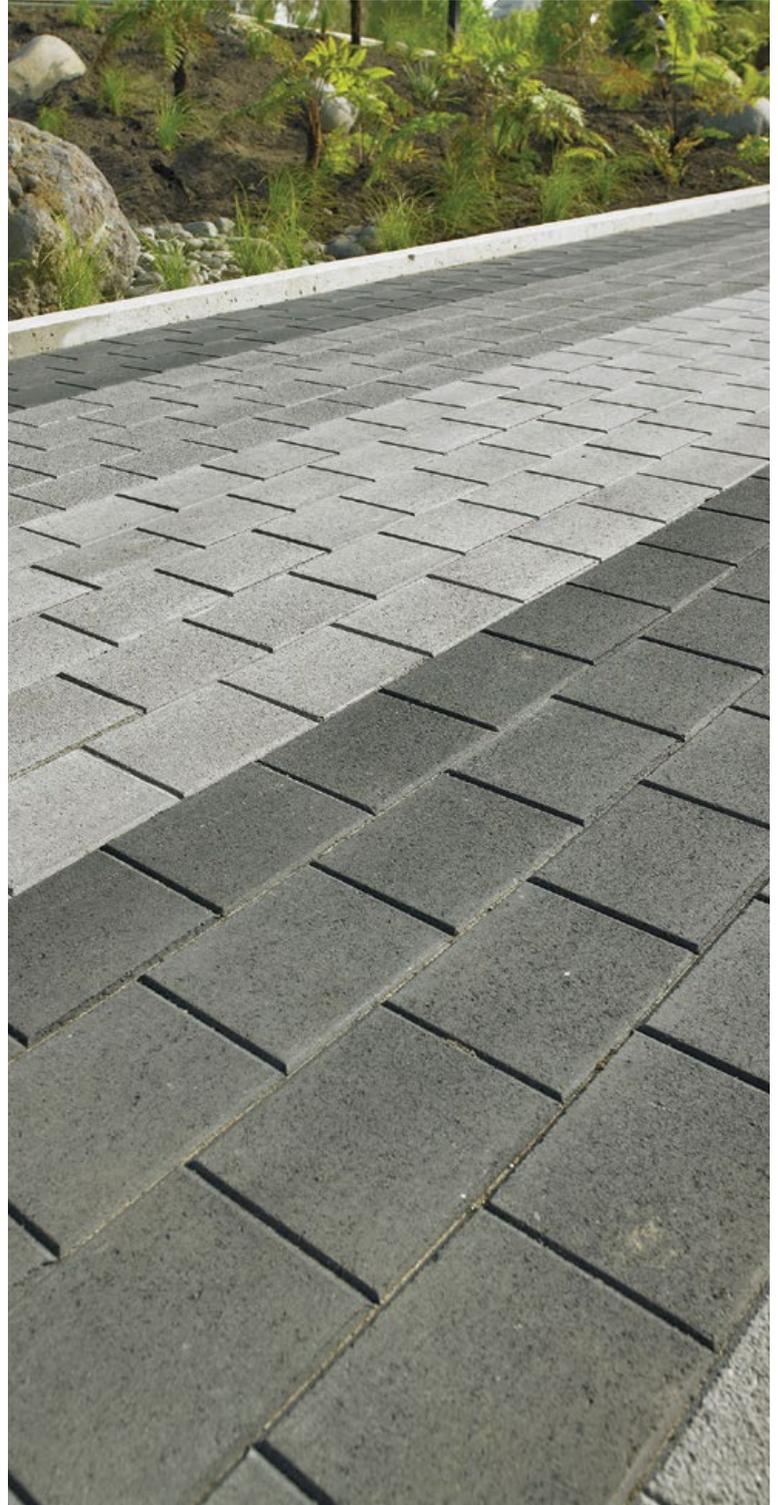
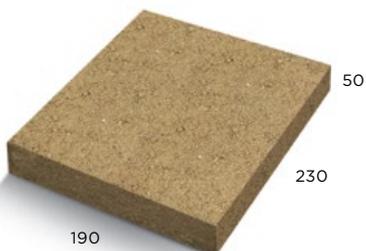
Black Sands



Sumner



Terracotta



Walkway - Black Sands & Volcanic Ash



Patios and walkways



PERMEABLE PAVING

The Firth Permeable Paving Range
will assist in the management of
rain & storm water runoff.





HOLLAND® FLOWPAVE

Holland® FlowPave has enlarged nibs on all four sides which creates wider than usual gaps around each paver. This space allows water to filter through to the underlying drainage medium. Easy to maintain, simply sweep the surface of the paver as required.

50 units per m²

Permeability Rate: 5500mm/hr

FAIR FACED FINISH:



Natural



Black Sands



Stormy



Holland® Flowpave - Natural



Patios and walkways



Parking Bays



Driveways

18

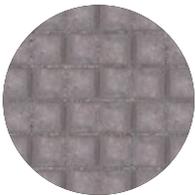
HOLLAND® FLOWPAVE SET

Holland® FlowPave Set helps manage storm water peak flows, and improves water quality by filtering harmful pollutants, helping to keep our waterways clean and healthy.

50 units per m²

Permeability Rate: 5500mm/hr

FAIR FACED FINISH:



Natural



Black Sands



Holland® Flowpave - Black Sands



Patios and walkways



Parking Bays



Driveways

100



HOLLAND® POROUSPAVE

Holland® PorousPave is one of the paver options in the Firth EcoPave Permeable Paving Range. The paver has a very open texture which allows water to filter through it to the underlying drainage medium. Holland® PorousPave is suitable for paths, patios, light to medium residential traffic areas and public footpaths.

50 units per m²

Permeability Rate: 1200mm/hr

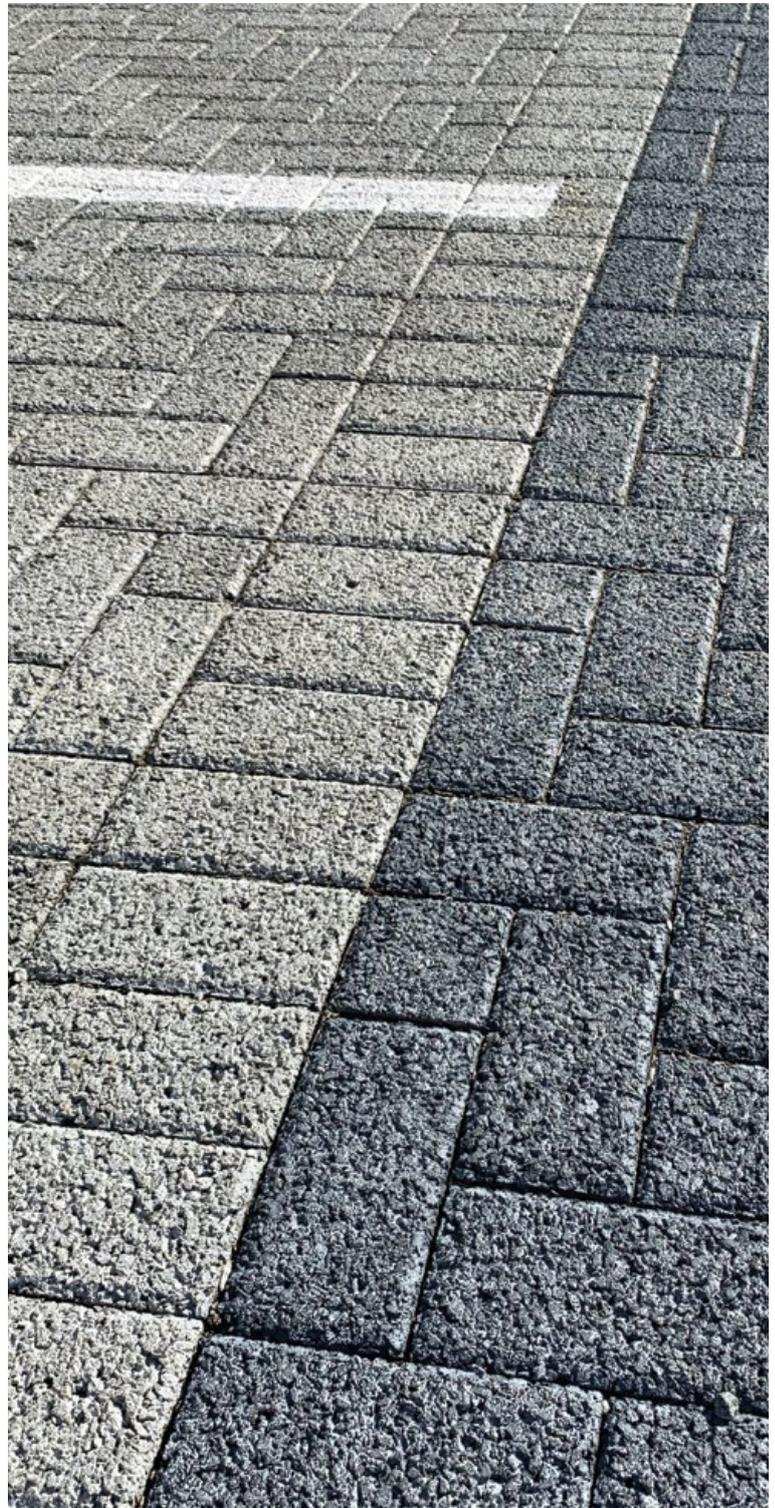
FAIR FACED FINISH:



Natural



Black Sands



19



Holland® PorousPave Natural & Black Sands



Patios and walkways



Parking Bays



Driveways



PATIO PAVER

A stylish 300x300mm size with enlarged nibs on all four sides assisting with managing storm water runoff. Allowing water to filter through to the underlying drainage system with a permeability rate of 1800mm/hr. This paver is available in the **North Island only**.

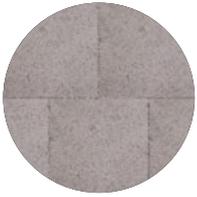
NB: Must be laid by accredited paviours.

11.11 units per m²

Permeability Rate: 1800mm/hr

HONED FINISH:

FAIR FACED FINISH:



Natural Honed



Natural

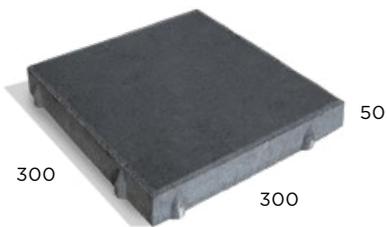


Black Sands Honed



Black Sands

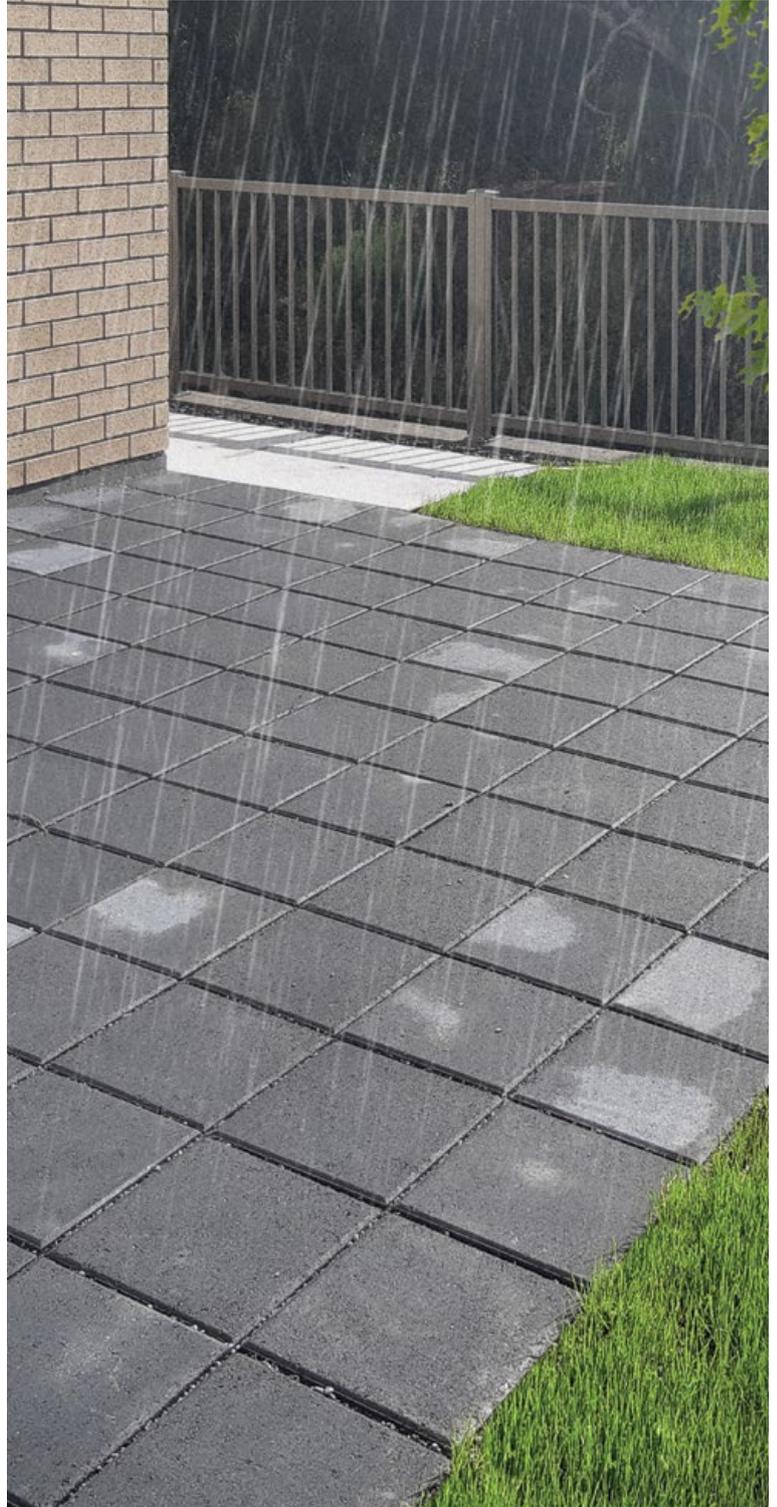
20



300

300

50



Patio Paver - Black Sands



Patios and walkways

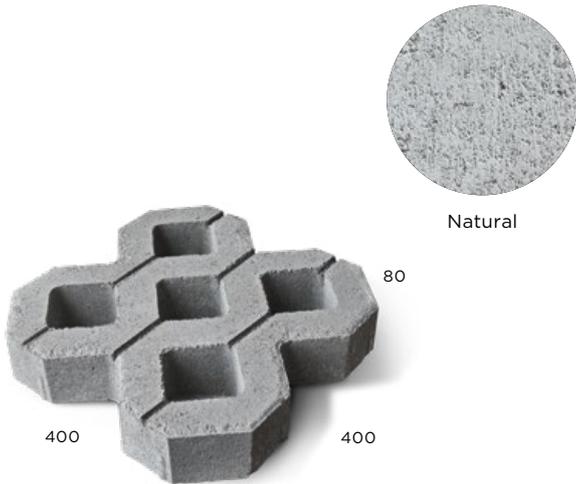


GRASS PAVER

Firth Grass Pavers combine the natural and welcoming look of a grass lawn with the strength and durability of a paved surface. Grass pavers have widely spaced openings allowing grass to grow through. The permeability of the Grass Paver is subject to top soil and type of grass.

6.25 units per m²

Permeability Rate: Subject to conditions



Grass Paver - Natural



Patios and walkways

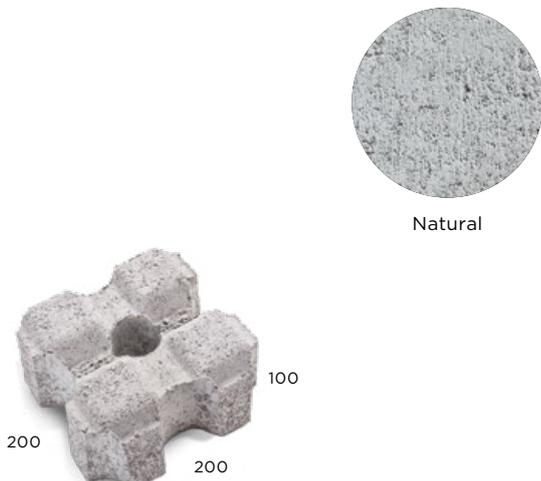
21

GOBI® BLOCK

Firth Gobi® Block is a heavy-duty paver for high-traction requirements. It's ideal for places where you want to retain a semi-grassed look; the design allows grass to grow through, plus water and nutrients to root systems below. The permeability of Gobi® Block is subject to top soil and type of grass.

25 units per m²

Permeability Rate: Subject to conditions



Gobi® Block - Natural



Patios and walkways



Driveways

CARING FOR YOUR PAVERS

INITIAL MAINTENANCE



During the early life of flexible pavement, the jointing sand may settle in the joint with the natural action of rain water. It is important that the joints are topped up as required to maintain full lock up of the paving units and jointing sand may

need to be reapplied during the first three months. Loss of jointing sand can contribute to chipping of edges on some paving types. Firth recommends Dricon® Pavesand.

CLEANING



Regular sweeping of the paved area with a stiff brush is recommended to remove the natural build-up of detritus. This action also helps with weed control, removing the young weeds before their roots establish in the joints. Weeds rarely grow up through the paver but rather airborne seeds settle in the sand joints. If dirt has built up and reduces the colour of the paving this can be regained with a wash using warm water and a mild detergent. Apply the mixed water and simply scrub the paving with a stiff broom and wash away the dirty water with a hose. Ensure all detergent has been thoroughly washed away upon completion of the cleaning. Power washes are a popular alternative to scrubbing. If using a power wash hold the lance at approx 30 degrees to the paving and use a fan spray not a pencil spray. This will help reduce the loss of jointing sand and minimize the likelihood of leaving "clean line" markings on the pavers. Upon completion of the cleaning, check the joint sand levels and replenish if necessary.

WEED CONTROL



If weeds become established in the paving joints they can be removed by hand, hot water, steam waterblaster or controlled with the use of a weed killer. If weeds are removed by hand be aware that often the roots will pull out some of the jointing sand. If there are a lot of weeds and this occurs check the joint sand levels and replenish if required. If using a weed killer look for a product that has been specifically designed for use with paving. These weed killers are generally more selective and are less likely to stain or

discolour the paving. Always follow the manufacturer's directions on use and application.

MOSS & ALGAE



Moss, lichens and algae should only occur if the paved area is shaded or inadequately drained. If such growths do occur they can be controlled with a 1:1 dilution of bleach/water. Simply apply over the affected area using a water can and leave for 2-3 minutes then wash off with a hose and brush. Use lots of water to dilute the residue as the bleach will not only kill the moss and algae but other plants as well. It may take 2 or 3 applications to fully control the occurrence. Lichens are a little more stubborn and may require a stiff brush to encourage them to move on along with the bleach mixture. There are also products specifically designed to deal with lichens on the market, but check that they do not contain ferrous sulphate - this can react with the concrete product leaving a brown stain. Specific cleaning agents are available from various distributors. Firth do not recommend the use of high pressure water blasters as they can damage the paving surface and do not kill all the moss and algae spores thus encouraging early regrowth. Always keep spare or unlaed pavers dry, covered and out of direct sunlight to avoid condensation and minimise the development of discoloration, moss and algae.

EFFLORESCENCE

Efflorescence usually presents as a whitish deposit or stain on the surface of the paving, often giving the paver colour a washed out appearance. The occurrence of efflorescence is spasmodic and unpredictable most often presenting in the winter months within the first year of installation. Efflorescence is a temporary phenomenon and will generally disappear in time through weathering, but this may take from some months to several years. There are several products on the market that may assist in the removal of efflorescence, most of these products contain acids so it is important that all manufacturer's instructions and relevant environmental regulations are followed. Incorrect or careless application may result in injury or damage and discolouration to the paving units being treated. We would strongly recommend a test panel be

applied in an inconspicuous area before treating the site. For heavy deposits it may require more than one treatment. Never exceed recommended mix rates in an effort to speed up the process, over application will alter the colour / texture of the paver. If applying an acid wash we recommend soaking the paving prior to its application and waiting until the surface has dried to damp condition. This limits the depth of penetration and minimizes potential loss of surface durability. Efflorescence is transparent when wet - wait for pavers to dry before sealing to make sure all efflorescence is removed. Firth recommends Dricon® CT.

SEALING



Sealing can improve the paver's appearance and help to reduce maintenance. A sealer can often assist in sealing the joint sand inhibiting weed growth, assist in keeping the pavers

clean by creating a barrier for dirt, moss and algae and if applied correctly can reduce the likelihood and appearance of efflorescence. There are several types of sealers on the market, broadly broken into a penetrating sealing type and a surface coating sealing type. Different types will enhance the paver colour to different degrees and some sealants will affect the paver's slip resistance. As suitability varies, please contact Firth (0800 347 841) to discuss the best sealant type for your paver. Consultation with a sealing supplier is then recommended to select the brands and options best suited to that guidance. When applying it is important to read the manufacturer's instructions prior to commencing the job and abide by any relevant environmental guidelines.

HEALTH AND SAFETY



Certain cleaning and sealing methods as listed involve the use of chemicals. All safety warnings provided by the supplier should be read, understood and adhered to at all times. Always work in an adequately ventilated area. When diluting acids always add acid to water not water to acid to reduce the risk if splashing occurs. Before starting any cleaning or sealing a trial should be undertaken on a small inconspicuous area to determine the effects on the paving.

BUILDING PRODUCT WARRANTY

WE ARE 100% BEHIND OUR CONCRETE SEGMENTAL PAVING PRODUCTS

If any Firth Concrete Segmental Paving products fails to perform as claimed, Firth will work with the relevant parties to help resolve the issue.

YOU'RE PROTECTED WITH FIRTH CONCRETE SEGMENTAL PAVING PRODUCTS

As New Zealand's largest manufacturer of concrete masonry products, Firth products are made for local conditions and to meet or exceed New Zealand Building Code requirements. Firth manufacture its concrete segmental pavers to NZS3116 in association with AS/NZS4455 and AS/NZS4456 with an independently audited quality management system confirming to AS/NZS ISO9001.

PRODUCTS AND SYSTEMS

Concrete segmental paving are products which are combined with other products such as hardfill, bedding sand, joint sand, and sometimes coatings, to make up a system such as a paved area. To ensure compliance with the NZBC, design needs to comply with NZS3116. Installation of the paving system also needs to confirm to NZS3116. The Designer Series range shall be sealed by the installer. Sealing helps to increase long term durability, aid colour retention, and reduce maintenance. The Firth documents are available for free download on the Firth Website.

It is recommended that Firth Dricon products are used with Firth Segmental Paving products to ensure compliance with NZS3116.

PRODUCT WARRANTY

Firth Industries warrants that Firth Concrete Segmental Paving Range will for a period of 10 years from the date of purchase:

- Be free from defects outside the acceptable limits specified in NZS3116 and AS/NZS4455 due to factory workmanship or materials used in manufacturing the product; and
- Subject to compliance with the conditions attached, that the products will perform to the extent set out in the relevant Firth Industries published literature current at the time of installation.

This warranty is subject to the storage, installation and maintenance requirements and the other warranty conditions set out in this document.

Texture and colour variation due to the natural material used can occur in masonry products and is not deemed a product defect. Minor chipping, cracking or efflorescence is also not deemed a product defect.

Nothing in this warranty shall exclude or modify any legal rights a customer may have under the Consumer Guarantees Act 1993 or otherwise which cannot be excluded or modified by law.

PRODUCT INSTALLATION, MAINTENANCE & SUPPORT

This warranty is subject to Firth Concrete Segmental Paving Range being properly stored, installed and maintained in accordance with Firth Concrete Segmental Paving Product Technical Statement.

CONDITIONS OF WARRANTY

This warranty is subject to the following conditions:

1. This warranty only applies where the product is used or installed in residential building work in New Zealand (the "project"). This warranty will be invalidated if the project is not designed and constructed in strict compliance with all relevant provisions of the New Zealand Building Code, and in compliance with other regulations and standards that apply to the project.
2. A person claiming under this warranty must provide written proof of purchase and make a written claim either within 30 days after the defect would have become reasonably apparent or, if the defect was reasonably apparent prior to installation, then the claim must be made prior to installation.
3. This warranty does not apply where the product has been used in any manner not in accordance with the product literature of Firth Industries that is current and publically available at the time of purchase.
4. This warranty does not apply to normal wear or tear, or damage caused by accident, misuse, abuse, fire, earthquake, or other external cause. This warranty does not apply to any damage suffered during delivery.
5. In the event of a breach of this warranty during the warranty period Firth Industries will, at its sole option, do one of the following: (a) supply replacement masonry product; (b) rectify the defective masonry product; (c) pay for the cost of supplying replacement masonry for the defective masonry product; or (d) provide a refund of the purchase price of the defective masonry product. Firth Industries will not be liable for any losses or damages arising as a result of a breach of warranty or the defective product, other than as set out in this paragraph [5].
6. In the event of a breach of this warranty Firth Industries will not be liable in contract, tort, equity or for breach of any statute (to the fullest extent permitted by law) for any indirect losses or consequential damages of any kind, or for loss of profits, loss of use, loss of anticipated savings, loss of production, or loss of goodwill.
7. Firth Industries will not be liable under this warranty for any claims, damages, or defects arising from or in any way attributable to events outside of its control, including but not limited to: poor storage of product on site, incorrect installation or poor building work, poor design or detailing, defect or failure of other products, efflorescence, performance of paint/coating applied to the product, water ingress, normal wear and tear, growth of mould, mildew, fungi, or bacteria on the surface of the product, settlement or structural movement, combination of the product with other products, coatings or finishes not approved for use with the product, or acts of God (such as earthquakes, cyclones, floods or other severe weather conditions or unusual climatic conditions).
8. All warranties, conditions, liabilities and obligations other than those specified in this warranty are excluded to the fullest extent permitted by law.
9. No employee or representative of Firth Industries is authorised to modify this warranty unless such modification is made in writing and is signed by an authorised officer of Firth Industries.
10. If the project is a newly constructed residential dwelling that is constructed by a developer for the purposes of sale then this warranty is assignable by the developer to the initial purchaser of that dwelling. In all other cases, this warranty is non-transferrable and non-assignable.
11. The statements in this warranty may be superseded at any time by Firth Industries publishing a new warranty on its website, and in that case the new warranty will apply from that date.



Please keep in mind when you are choosing Firth paving products, 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 these products are natural products and as a result some variations will occur. Variations between North and South Island manufactured products will occur due to locally sourced materials.

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