NZ

Product **Technical** Statement

PGH™ PAINTER COMMON BRICKS

Refer to product table below for applicable product codes covered by this document

Issue **A - 10/2024**

Product Type & Application

PGH™ Painter Common Bricks are kiln-fired bricks made predominantly from clay and shale fired at high temperatures and are suitable for masonry veneer exterior cladding applications. This brick can be painted using a suitable masonry paint. Formerly known as Monier Bricks® through The Brickery®, PGH Bricks are now available in New Zealand through CSR® Building Products.

Compliance with New Zealand Building Code

When correctly specified and installed, this product meets or contributes to compliance with the following performance requirements of the building code:

- **B1 Structure** B1.3.1, B1.3.2, B1.3.3(f, h, j) – PGH Painter Common Bricks have been tested in accordance with AS/NZS 4455.1 to verify compliance with the minimum material quality standards as specified in B1/AS1.
- **B2 Durability** B2.3.1(a) – Bricks strength is demonstrated to meet the NZBC B2 – Durability requirements (NZS 4210 C2.1.4.5). Additionally, bricks have been tested in accordance to AS/NZS 4456.10 to determine exposure category and may be used depending on the exposure category requirement in Appendix 2.E of NZS 4210:2001.
- **C3 Fire affecting areas beyond fire source** C3.7(a) – Brick materials are deemed to be non-combustible as stated in the definition of terms in C/AS1.
- **C3 Fire affecting areas beyond fire source** C3.3 – Bricks can achieve an FRR of up to 60/60/60 when required by C/AS1 or C/AS2. See Limitations of Use for more details.
- **E2 External Moisture** E2.3.2, E2.3.3, E2.3.5, E2.3.6, E2.3.7 – Painter Common Bricks meet the requirements of E2/AS2 9.2.2(1) when tested in accordance with AS/NZS 4456.8.
- **F2 Hazardous building materials F2.3.1 –** Bricks are not classified as hazardous according to criteria of WorkSafe New Zealand GHS 7. However, the fine dust in/on the supplied product may include respirable crystalline silica. Cutting, breaking, drilling, sawing, grinding, and finishing may generate hazardous dust. Refer to the product SDS at pghbricks.co.nz for more information.

Basis of Compliance

- Testing to AS/NZS 4455.1 and specific AS/NZS 4456 series standards across the following reports:
  - PGH NATA Lab Report No. 2024016 – Painter Common (OX)
- Professional Assessment, AS1530.4 –
  - BRANZ Assessment FC11917-001, 20 October 2020.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B1 Structure Amendment 21, 2 November 2023.
- Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Amendment 12, 5 November 2020.
- C1-C6 Protection from Fire Acceptable Solution C/AS1 Energy Efficiency, Acceptable Solution H1/AS1, Protection from fire for buildings with sleeping (residential) and outbuildings (risk group SH), Second edition, 2 November 2023.
- C/AS2 Acceptable Solution for Buildings other than Risk Group SH, For New Zealand Building Code Clauses C1-C6 Protection from Fire, Amendment 3, 2 November 2023.
- Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 For New Zealand Building Code Clause E2 External Moisture, Amendment 10, 5 November 2020.
- Acceptable Solutions and Verification Methods For New Zealand Building Code Clause F2 Hazardous Building Materials, Amendment 3, 1 January 2017.
- PGH Safety Data Sheet for PGH Clay Bricks and Pavers, 11 September 2024.

Specific Design or Installation Instructions

- PGH Painter Common Bricks are suitable for masonry veneer exterior cladding applications. Other applications would require specific engineering design.
- Design and installation of masonry veneer exterior cladding shall be in accordance with Section 11 of NZS 3604:2011, NZS 4210:2001, and/or Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 For New Zealand Building Code Clause E2 External Moisture, Amendment 10, 5 November 2020.
- For general guidance on bricklaying refer to the Master Brick and Blocklayers® publication 'Brick Veneer Best Practice Guide' September 2023 Edition.

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Limitations of Use

- **IMPORTANT:** Do Not Modify This Product: Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed in this PTS.
- Design and installation of the wall system should be in accordance with the New Zealand Building Code.
- These products are only intended for masonry veneer exterior cladding applications.
- PGH Painter Common Bricks have not been assessed for use in flooring applications.
- This product is not subject to any warning or ban declared by MBIE under section 26 of the Building Act 2004.
- AS 1530.4 Assessment for FRR is 60/60/60 for walls up to two storeys high. Weep holes must meet the requirements of a Type A area in C/AS2 5.4.

Conditions of Storage, Use & Maintenance

- Store in the original packaging in a cool, dry area, away from foodstuffs. Ensure packages are adequately labelled, and protected from physical damage.
- Bricks are not classified as hazardous according to criteria of WorkSafe New Zealand GHS 7. However, the fine dust in/on the supplied product may include respirable crystalline silica. Cutting, breaking, drilling, sawing, grinding, and finishing may generate hazardous dust. Refer to the product SDS at pghbricks.co.nz for more information.
- Brick cleaning after bricklaying is a specialist trade and should only be undertaken by a professional. The chemicals and high-water pressures used can easily damage the product, if not done correctly. Different brick textures and colours often have different cleaning considerations. Dry brushing bricks periodically when laying to remove residual mortar is an effective way to reduce the amount of effort required to clean bricks. Bricks should be cleaned within 2 to 14 days of laying.

Brick Cleaning Guides are available at bricksnz.co.nz/manuals

Alternatively, please contact PGH on 0800 999 277.

PGH Bricks NZ, 14 The Furlong, Takanini, Auckland For further technical advice call 0800 806 313/ email orders@csr.co.nz

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Applicable Product Codes

COLOUR	BRICK WEIGHT [kg per m^2]	WORK SIZE (LxWxH) [mm]	DIMENSIONAL CATEGORY[1]	UNCONFINED COMPRESSIVE STRENGTH[2] (f'uc) [MPa]	DURABILITY CLASS[3]	PRODUCT CODE
Painter Common (OX)	<110	230 x 70 x 76	DW1	>15	Exposure Grade	468283

[1] Tested in accordance with AS/NZS 4456 Method 3: Determining dimensions
[2] Tested in accordance with AS/NZS 4456 Method 4: Determining compressive strength of masonry units
[3] Tested in accordance with AS/NZS 4456 Method 10: Determining resistance to salt attack

Additional Product Data

COLOUR	Coefficient of Expansion[4] [mm/m/15 years]	Initial Rate of Absorption[5] (IRA) [kg/m^2min]	Cold Water Absorption[6] [%]	Potential for Lime Pitting[7]	Potential for Efflorescence[8]	Core Percentage[9] [%]
Painter Common (OX)	<1	0.5-1.5	<10	Nil to Slight	Nil to Slight	≤30

[4] Tested in accordance with AS/NZS 4456 Method 11: Determining coefficients of expansion
[5] Tested in accordance with AS/NZS 4456 Method 17: Determining initial rate of absorption (suction)
[6] Tested in accordance with AS/NZS 4456 Method 14: Determining water absorption properties
[7] Tested in accordance with AS/NZS 4456 Method 13: Determining pitting due to lime particles
[8] Tested in accordance with AS/NZS 4456 Method 6: Determining potential to effloresce
[9] Tested in accordance with AS/NZS 4456 Method 7: Determining core percentage and material thickness

Membership

CLAY BRICK & PAVER MANUFACTURER'S ASSOCIATION

Clay Bricks and Pavers Manufacturer's Association New Zealand

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