

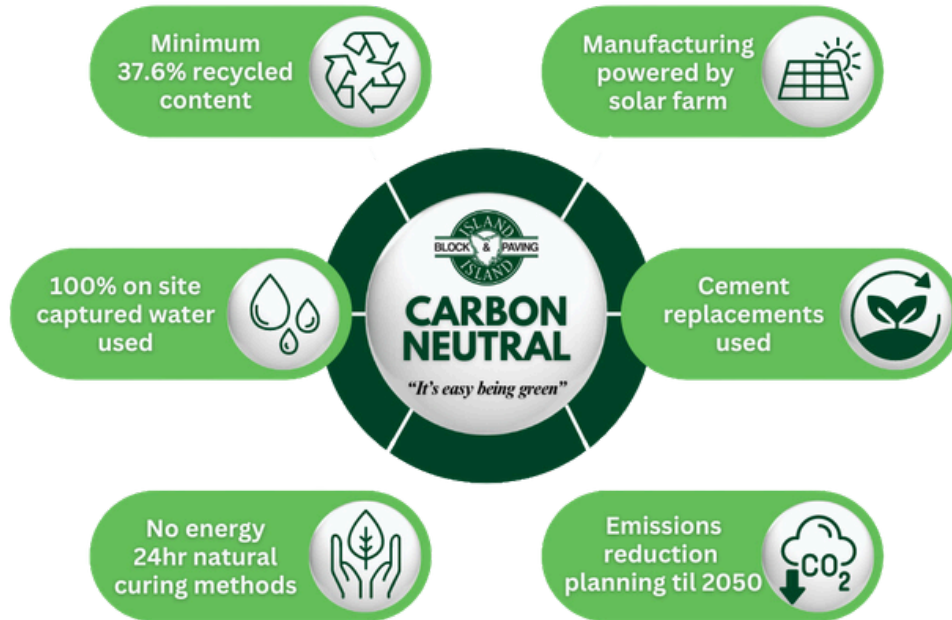
CARBON NEUTRAL BLOCKS

- Carbon Neutral Tech-Dry Water Repellent
- Carbon Neutral Certified
- 90mm, 140mm, 190mm, 240mm & 290mm wide
- Greentag Level A Certified
- CSIRO tested in wind driven rain
- Water repellent mortar additive



CARBON NEUTRAL BLOCKS

Carbon Neutral blocks are Australia's only Carbon Neutral certified building block range; third party verified by Global Greentag. The blocks contain 37.6% recycled content consisting of glass aggregates and Tech-Dry water repellent additives to provide a Carbon Neutral water-repellent block. The feature glass aggregate used in the blocks also results in a unique cost-effective surface finish for no additional cost.



Why Choose Our Products?

Certification:

- Global GreenTag International EN 15804 EPD, Environmental Product Declaration.
- Carbon Zero rating under CarbonRATE™ certification scheme.
- GreenRate Level A certified.
- Product Health Declaration Platinum level, No VOC's.

View current Carbon Neutral & Greenrate Level A Certificates @ <https://www.islandblock.com.au/carbon-neutral/>



Architects and Specifiers:

- Blocks for the Future exceed the expectations of environmentally conscious specifiers.
- Third-party audits from Global GreenTag Australia ensure credibility and no greenwashing.
- Carbon Neutral verified, no "opt in" carbon offset scheme requirements.



CARBON NEUTRAL TECH-DRY WATER REPELLENT BLOCKS

The water-repellent aspect is an integral part of the entire Carbon Neutral block and not just a surface effect. An active admix is blended throughout the entire block and will not break down or wash out over time.

Available in natural grey or coloured, with 90mm, 140mm, 190mm, 240mm and 290mm wide options. All Carbon Neutral building block products from Island Block & Paving are also Global Greenrate Level A certified. For coloured block options with a variety of surface finishes view the [Carbon Neutral Blocks for the Future Coloured Block range](#).

The advantages of the Carbon Neutral Water Repellent Blocks are:

1. Sustainable, certified carbon zero product
2. Dramatic reduction in efflorescence.
3. Resistance to biological growth as the block remains dry (mould and moss etc).
4. Higher 28 day compression strength.
5. Higher 28 day flexural strength .
6. Colourfast.
7. The Tech-Dry admix in the block exhibits high resistance to salts as water containing salt cannot enter.
8. Repels rising damp, therefore mitigating problems with applied finishes delaminating at lower ground level.
9. Easier to wash down as dirt and grime does not penetrate.

Typical uses of Carbon Neutral Blocks:

Foundation walls, Parapet walls, retaining walls, Fire rated walls, Structural Loadbearing walls, Non Load bearing walls, Single block construction, Lift shafts, Stairwells, Boundary walls, Grey block feature walls.








































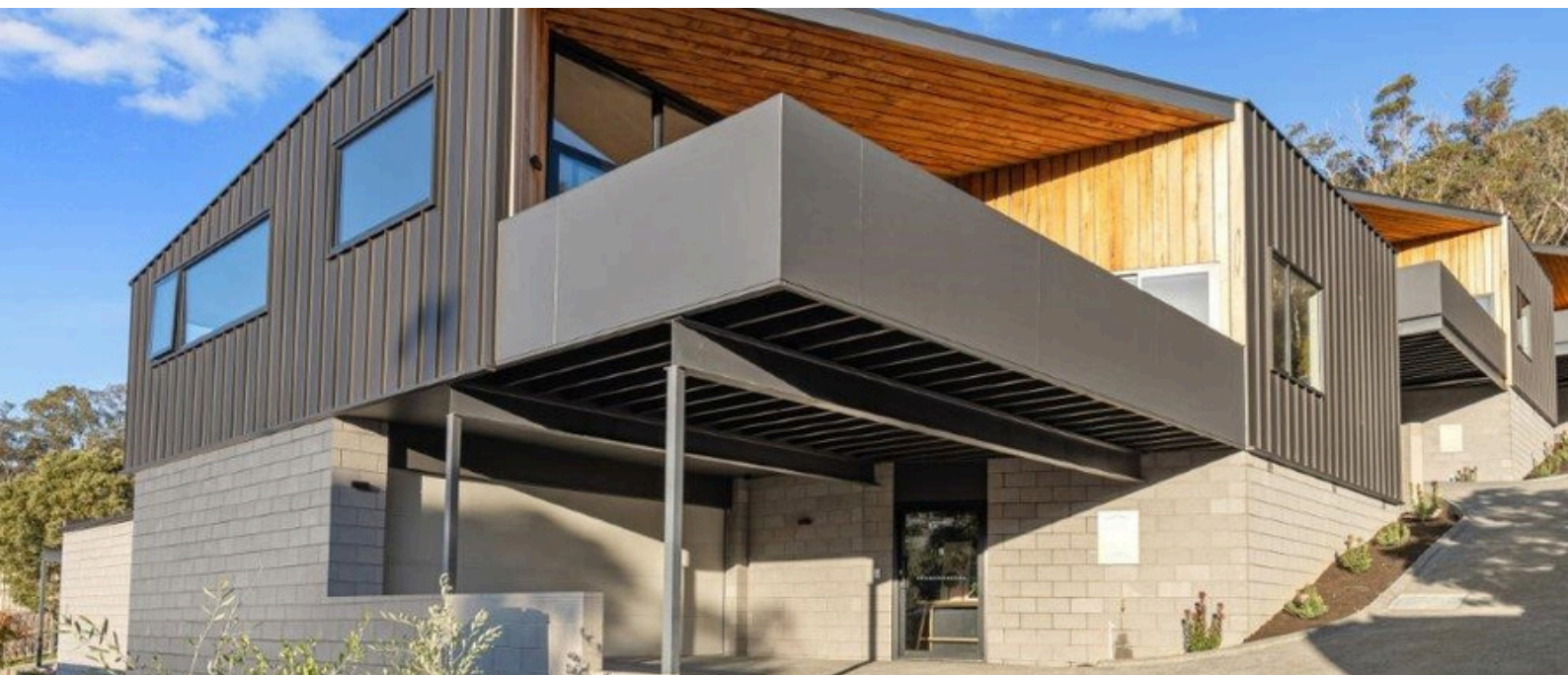
TESTING

A Tech-Dry mortar additive can be supplied to create water-repellent mortar joints to establish a totally water-repellent wall. Tech-Dry blocks are the only accepted industry product that is “waterproof against wind-driven rain” as per CSIRO Tech-Dry test results. Tech-Dry blocks have been successfully used in the building industry for over 25 years and comply with relevant Australian Standards. Testing includes CSIRO test to ASTM E514-90 “Standard Test Method for Water Penetration and Leakage Through Masonry” and an ABSAC (Australian Building Systems Appraisal Council) technical opinion no.231 is also available.

Low water absorption CWA value < 3%

CARBON NEUTRAL BLOCK SIZES

100mm Series	Num. Per Pallet	Num. Per Tonne	150mm Series	Num. Per Pallet	Num. Per Tonne	200mm Series	Num. Per Pallet	Num. Per Tonne	300mm Series	Num. Per Pallet	Num. Per Tonne
10.01 Standard 390 x 90x 190mm 	180	90	15.01 Standard 390 x 140x 190mm 	120	70	20.01 Standard 390 x 190x 190mm 	90	58	30.48 H Block 390 x 290x 190mm 	70	45
10.02 Three Quarter 290 x 90x 190mm 	240	115	15.02 Three Quarter 290 x 140x 190mm 	160	90	20.02 Three Quarter 290 x 190x 190mm 	120	70	30.934 Block 390 x 290x 190mm 	60	40
10.03 Half 190 x 90 x 190mm 	360	180	15.03 Half 190 x 140x 190mm 	216	130	20.03 Half 190 x 190x 190mm 	180	130	30.02 Pier Block 290 x 290x 190mm 	80	65
10.04 Quarter 90 x 90x 190mm 	720	345	15.04 Quarter 90 x 140x 190mm 	432	220	20.04 Quarter 90 x 190x 190mm 	360	180	30.03 Block 190 x 290x 190mm 	120	70
10.71 Half Height 390 x 90x 90mm 	360	200	15.22 Seven-Eights Closure 340 x 140x 190mm 	135	85	20.13 Half Lintel 190 x 190x 190mm 	220	100	DIY Wall Blocks	Num. Per Pallet	Num. Per Tonne
250mm Series	Num. Per Pallet	Num. Per Tonne	15.20 Knock Out Bond Beam 390 x 140x 190mm 	120	76	20.18 Deep Lintel 390 x 190x 190mm 	110	60	Full Block 400 x 200 x 200mm 	90	83
25.01 Standard 390 x 240 x 190mm 	75	45	15.31 Fire Block 390 x 140x 190mm 	90	41	20.20 Knockout Bond Beam 390 x 190x 190mm 	90	62	Half Block 200 x 200 x 200mm 	180	128
25.48 H Block 390 x 240 x 190mm 	80	45	15.13 Half Lintel 190 x 140x 190mm 	265	140	20.71 Half Height 390 x 190x 90mm 	180	110	Pier Block 400 x 200 x 200mm 	90	78
25.03 Half 190 x 240 x 190mm 	150	54	15.71 Half Height 390 x 140x 90mm 	240	140	20.48 H Block 390 x 190x 190mm 	90	62	Common Bricks	Num. Per Pallet	Num. Per Tonne
25.22 Seven Eights Closure 340 x 240 x 190mm 	80	50	15.48 H Block 390 x 140x 190mm 	120	75	50.31 Patio Slab 390 x 190x 40mm 	288	150	Random Coloured 230 x 110 x 76mm 	500	316



240mm block width available that allow for 100mm of load bearing or stud width. 50mm wide cavity to comply with the B.C.A.



SPECIFICATIONS

MASONRY UNITS:

Specification and/or Material Selection

Manufacturer:	Island Block & Paving
Product:	Carbon Neutral Tech Dry Blocks
Colour:	TBC
Carbon Neutral Certification:	Current third-party Carbon Neutral certificate at islandblock.com.au
GreenTag Level A Certification:	Current third party Global Greentag Level A certificate at islandblock.com.au
Manufacturing dimensions:	390mm(l)x190mm(h)x90mm(w), 390mm(l)x190mm(h)x140mm(w) 390mm(l)x190mm(h)x190mm(w), 390mm(l)x190mm(h)x240mm(w) 390mm(l)x190mm(h)x290mm(w), + All relevant accessories
Unconfined Compressive Strength:	>15MPA
Material Density: Average Dry Mass:	2150 Kg/m ³
Working Dimensions:	AS 4455.1 2008: + or - 2mm Dimensional Tolerance
Cold Water Absorption:	CWA <3% CSIRO tested to ASTM ES 14-90 "Standard Leakage in Masonry"
Exposure Grade/Salt Attack:	Suitable for severe marine environment in accordance with AS/NZS4456.1
Fire Resistance:	Fire Resistance levels deemed to comply with NCC AS 3700 6.3, 6.4 & 6.5
Compliance:	Australian Standards AS 3700, AS 4773.1 and AS4773.2 NCC 2022

WATER REPELLENT MORTAR:

TECH-DRYAD MORTAR ADDITIVE is a water repellent admixture for cement/sand mortars. It makes the mortar water resistant, reduces the mortar efflorescing and improves the adhesion of the mortar to the Carbon Neutral water repellent blocks.

Mortar materials:

Sand: Fine aggregate with low clay content (Brickie Sand) and free from efflorescing salts, selected for colour and grading.

Colour: Sand shall be selected for colour where used in face work; obtained from the same pit.

Cement type to AS 3972: GP (Portland Cement)

Water: Clean and fresh.

Water repellent admixture: TECH-DRY Techdryad Mortar Additive, product code RPTDADMA; being an approved water repellent admixture. Available from Island Block & Paving.

Dosage:

Add 400mils of Techdryad Mortar Additive with two shovels of cement (approx 12kg) and 10 shovels of sand (approx 60kg); do not exceed cement to sand ratio of 1 part cement to 5 parts sand. Mix can be 1:4 if required.

Consumption Rate:

The 20 litres of TECHDRYAD MORTAR ADDITIVE will lay approx 1000x 190mm Blocks.

CONSTRUCTION TIPS

In wet weather, ALWAYS cover up unfinished blockwork to allow the mortar to cure. This will prevent unnecessary staining to the blockwork if exposed to wet weather.

To prevent concrete staining, cover the top of the wall immediately after any concrete core-filling for 14 days to allow for adequate curing of the concrete.

TECHNICAL SUPPORT

Established in 1993, Island Block & Paving have over 30 years experience in masonry manufacturing. We pride ourselves in supporting designers with technical information to support masonry design, we have our own experienced team and are also 30-year members of the CMAA. We welcome your enquiries.



We are here to help...ask us

- GBCA Greenstar compliance
- Masonry design advice
- Engineering advice
- AS 3700 compliances
- Design assistance
- Project specific colours



FIRE & ACOUSTIC MANUAL



TECHNICAL & CONSTRUCTION TIPS



HIT & MISS WALL DESIGN

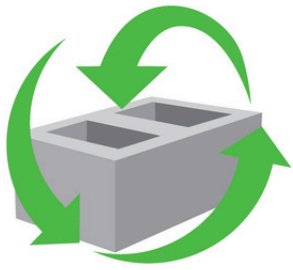


SOLAR ABSORPTANCE RATINGS



CLEANING GUIDE





CARBON NEUTRAL BLOCKS

Technical Information

Carbon Neutral certified- Current Global Greentag third party verified certificates available islandblock.com.au
Available in 90mm, 140mm, 190mm, 240mm & 290mm block widths

Working Dimensions: AS 4455.1 2008: + or - 2mm Dimensional Tolerance

Recommended Mortar per AS 3700: 1GP Cement + ½ Lime + 5 Clean Sand + Techdryad admixture per specified dosage rate

Unconfined Compressive Strength: > 15 MPa

Material Density: Average Dry Mass: 2150 Kg/m³

Fire rating: FRL Design Manual at islandblock.com.au Deemed to comply as non-combustible for Bushfire prone areas, designed with accordance to AS3959 as applicable under the NCC 2019 Part G5.1

Exposure Grade & Salt Attack Resistant: Suitable for severe marine environment- less susceptible for salt attack. Severe marine environments- defined as within 1 km of a surf coast or up to 100 metres from a non-surf coast in accordance with AS/ NZS 4456.10

CWA - Cold Water Absorption < 3%- deemed water repellent in wind driven rain (water repellent mortar additive available)

LRV - Light Reflectance Values: view Blocks for the Future LRV's at islandblock.com.au/LRV

SRI - Solar Reflectance Index: view Blocks for the Future SRI at islandblock.com.au/SRI



Free Samples to your door:
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