

# KEPPEL BLOCK & KINKA BLOCK

## Large Mass Retaining Wall Blocks



**BARLOWS EARTHMOVING**

[barlowsearchmoving.com.au](http://barlowsearchmoving.com.au)

**WHAT WE DO MATTERS**



**Barlows Earthmoving is the sole manufacturer and supplier of **Keppel** and **Kinka** Large Mass Retaining Wall Blocks, supplying the Central Queensland region.**

**These unique and innovative products are manufactured on site at our quarry, to the **highest standards** of quality.**





# Keppel Blocks

- ◆ **Extremely versatile**
- ◆ **High quality, wet-cast concrete for superior durability**
- ◆ **Precision moulded to ensure consistency**
- ◆ **Tapered shape ideal for straight and curved walls**
- ◆ **Available in standard size, half-height and half-length to meet all requirements**
- ◆ **Swift Lift Anchor for easy handling**
- ◆ **Quick and simple to install, minimal site preparation required**
- ◆ **Dry-stacked, mortar-free construction**
- ◆ **Blocks interlock with precast overlap for superior strength**
- ◆ **Can be installed level or at an angle, depending on site parameters**
- ◆ **Good tolerance for movement and settlement**
- ◆ **Excellent structural permeability to reduce the build-up of hydrostatic pressure**



***“Our Premier Block”***



# Keppel Blocks

**Suitable for many permanent retaining wall structures, including:**

- ◆ retaining walls
- ◆ earth retention
- ◆ erosion protection
- ◆ sea walls
- ◆ waterway channels
- ◆ bridge abutments
- ◆ wing walls
- ◆ And more



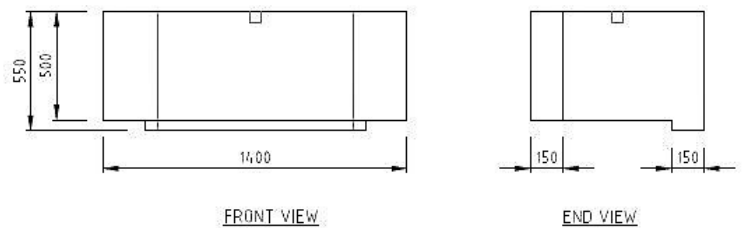
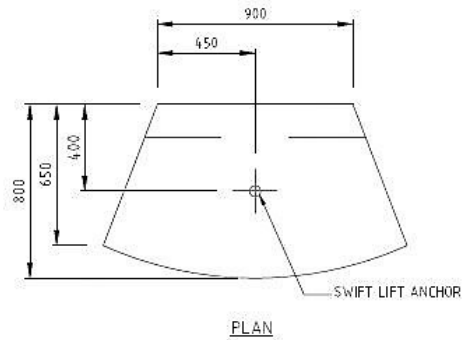
**Customised range of colours and rock face finishes available on request**

**Available for collection from quarry or for delivery**





# Keppel Blocks



TYPICAL KEPPEL BLOCK RETAINING BLOCK  
SCALE 1:20

**Approximate weight of block:**

**1.1 Tonne**



**Minimum Compressive Strength Grade:**

**12 Mpa or greater**



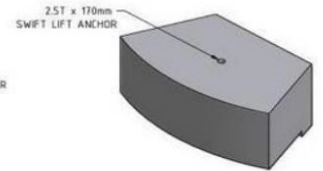
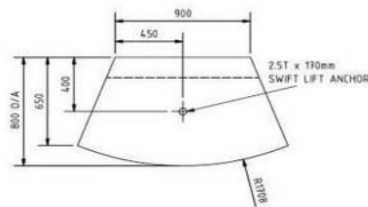
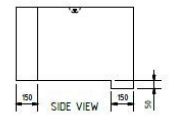
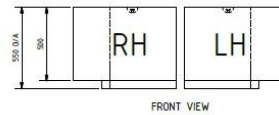
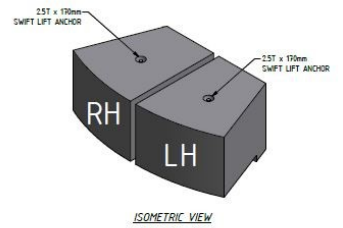
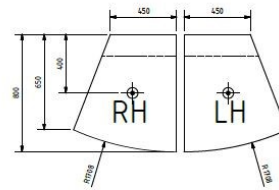
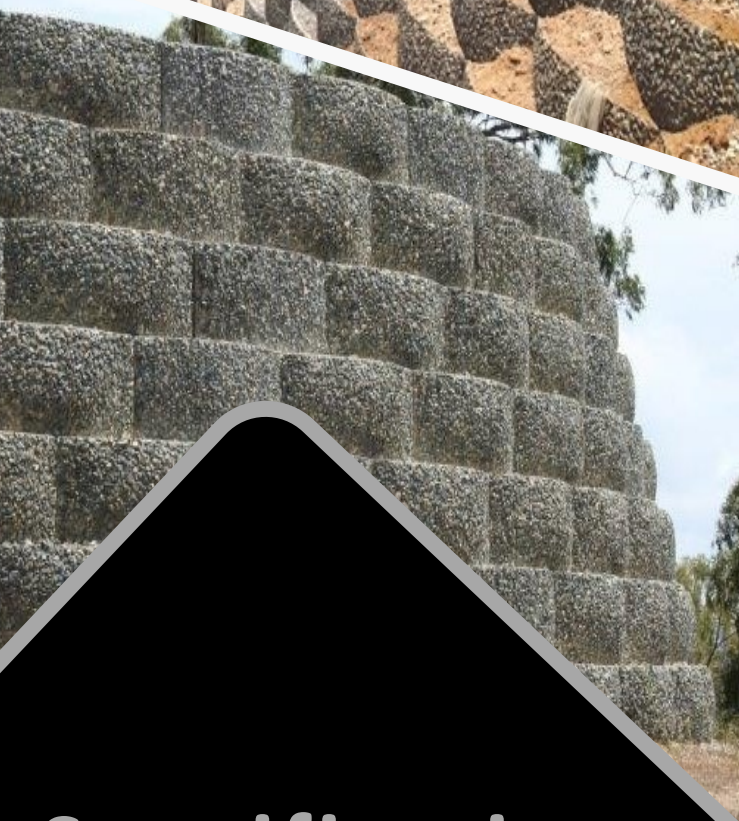
**Number per square meter: 1.3**

## Specifications

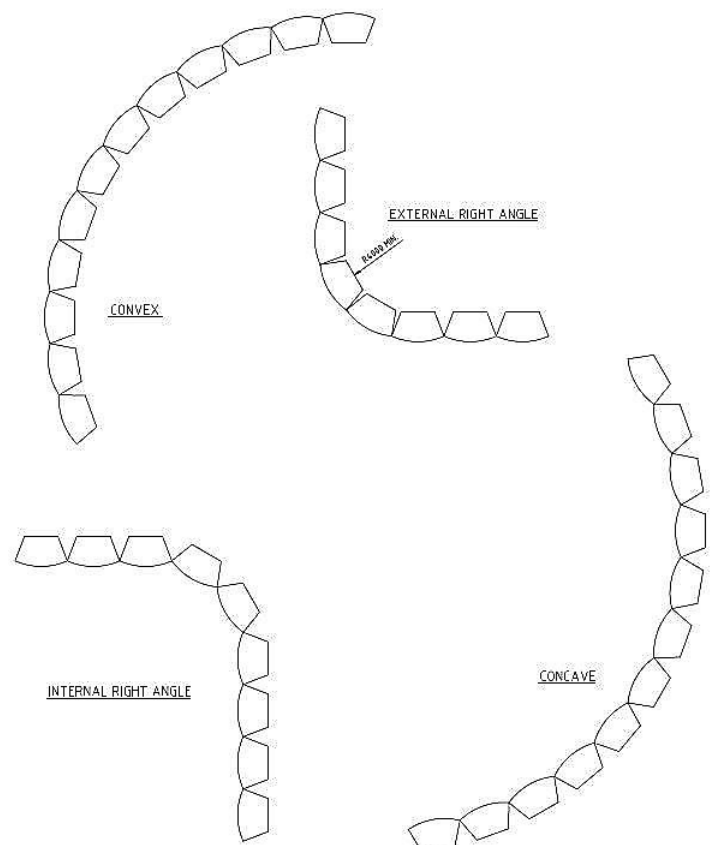
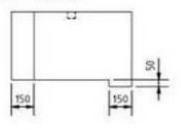
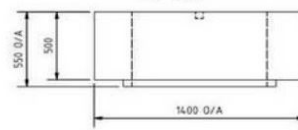
*"Our Premier Block"*



# Keppel Blocks



ISOMETRIC VIEW ( 1:20 )  
CONCRETE VOLUME - 0.5m<sup>3</sup>  
MASS - 1.15 TONNE



PLAN LAYOUT OF RETAINING WALL BLOCKS  
SCALE 1:100

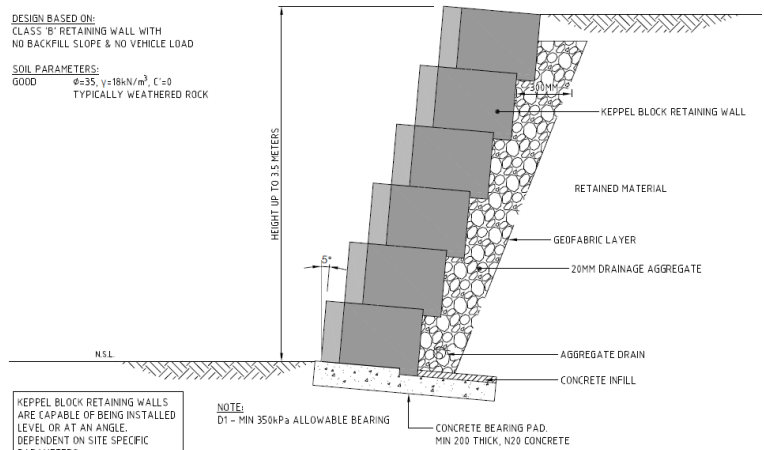
## Specifications



# Keppel Blocks

DESIGN BASED ON:  
CLASS 'B' RETAINING WALL WITH  
NO BACKFILL SLOPE & NO VEHICLE LOAD

SOIL PARAMETERS:  
0000  $\phi=35^\circ$ ,  $\gamma=18kN/m^3$ ,  $C=0$   
TYPICALLY WEATHERED ROCK



RETAINING WALL - TYPE 1

SCALE 1:20

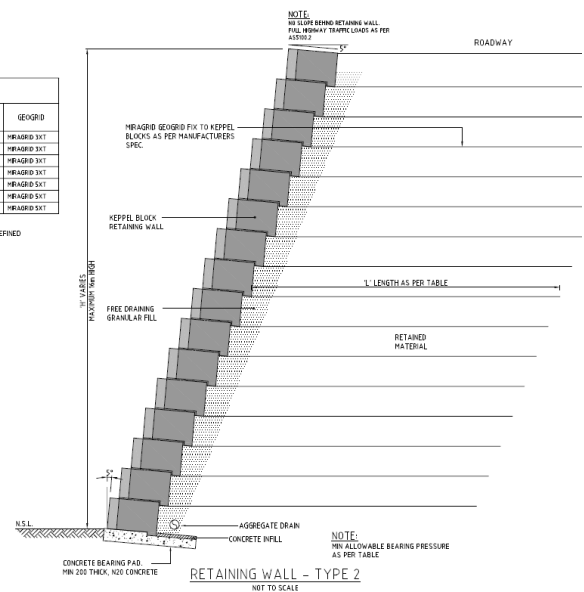
\* DESIGNS SHOWN ARE INDICATIVE ONLY.  
SITE SPECIFIC PARAMETERS REQUIRED TO  
BE DEFINED FOR INDIVIDUAL RETAINING  
WALL DESIGNS

## Standard Keppel Block Retaining Wall

< 5 meters

| RETAINING HEIGHT (H) | GEOTEXTILE LENGTH (L) | MIN ALLOWABLE BEARING PRESSURE | GEOTEXTILE  |
|----------------------|-----------------------|--------------------------------|-------------|
| 0.5m                 | 1.0                   | 100                            | HR-GRID 5x1 |
| 0.8m                 | 1.5                   | 105                            | HR-GRID 5x1 |
| 1.1m                 | 2.2                   | 150                            | HR-GRID 5x1 |
| 1.5m                 | 3.0                   | 200                            | HR-GRID 5x1 |
| 2.0m                 | 3.5                   | 225                            | HR-GRID 5x1 |
| 2.5m                 | 4.2                   | 275                            | HR-GRID 5x1 |
| 3.0m                 | 5.0                   | 300                            | HR-GRID 5x1 |

\* DESIGNS SHOWN ARE INDICATIVE ONLY.  
SITE SPECIFIC PARAMETERS REQUIRED TO BE DEFINED  
FOR INDIVIDUAL RETAINING WALL DESIGNS  
(USED FOR RETAINING ROAD ONLY)



## Standard Keppel Block Retaining Wall

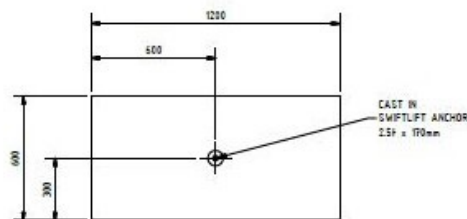
> 5 meters

*“Locally manufactured  
At Tanby 1 Mine”*

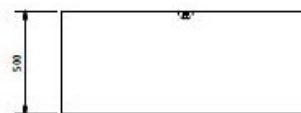


# Kinka Blocks

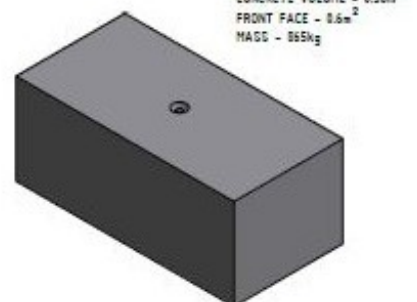
- ◆ Versatile rectangular block
- ◆ High quality, wet-cast concrete for superior durability
- ◆ Precision moulded to ensure consistency
- ◆ Swift Lift Anchor for easy handling
- ◆ Quick and simple to install, minimal site preparation required
- ◆ Dry-stacked, mortar-free construction
- ◆ 1200mm x 600mm x 500mm
- ◆ Mass: 865kg
- ◆ Front Face Area:  $0.6\text{m}^2$
- ◆ Volume per block:  $0.36\text{m}^3$



TOP VIEW



FRONT VIEW



ISOMETRIC VIEW

## Features & Specifications



# Pricing, Delivery & Stock

**Contact Barlow's Earthmoving for a quote on Keppel and Kinka Blocks, and to discuss your specific requirements.**

**Barlow's Earthmoving always have 1000+ standard Keppel blocks in stock. For large orders and custom made Keppel Blocks, we are able to produce up to 100 blocks per day.**

**We offer various options for the delivery and placement of your blocks, depending on your site parameters.**



## **Important Note:**

Site specific parameters are required to be defined for individual retaining wall designs. Keppel & Kinka Block retaining walls must be built to individual specifications as prepared by a registered engineer



# THE BARLOW'S WAY



On Time



Within Scope



Within Budget



Create Quality



Customer Satisfaction

## WHAT WE DO MATTERS



**BARLOWS EARTHMOVING**

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[barlowsearthmoving.com.au](http://barlowsearthmoving.com.au)