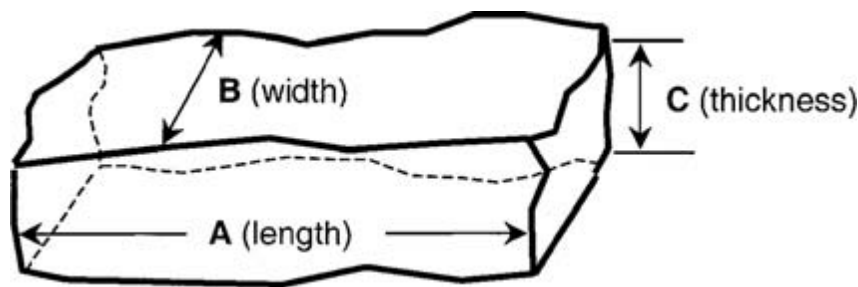


## PRODUCT DATA SHEET: Mattress Rock

- Description:** Mattress rock is typically used to fill wire mesh baskets or cages, the steel wire mesh of the Link Mattress effectively restrains the movement of the rock placed within the mattress, thereby increasing its shear resistance against hydraulic load to prevent or mitigate erosion due to movement of water.
- Uses:** Typically these materials are used to mitigate erosion due to movement of water such as protection of canal banks, bridge piers, shore stabilisation.
- Advantages:** The Mattress rock produced at Nucrush Oxenford, this site is quarried from a Metagreywacke deposit.
- This material is tested and proven to be **HARD, DURABLE** and **RESISTANT** to **CHEMICAL ATTACK** making it ideal for use in revetment applications.
- Specifications:** Mattress rock is usually ordered on a size and shape requirement.
- Specifications should allow for some variation in the size and shape of the rock.
- Shape is usually specified as a length: width: height requirement, typically Mattress stone will have a maximum ratio of 3:1 ratio for length: width or length: height.



In terms of size Nucrush's Mattress rock is typically:

$D_{100} < 200\text{mm}$  (100% of the rock is to be less than 200mm diameter)

$D_{50} > 120\text{mm}$  (50% of the rock is to be greater than 120mm diameter)

$D_{10} > 100\text{mm}$  (10% of the rock is allowed to be less than 100mm diameter)

In terms of resistance to chemical attack Nucrush's Mattress stone has test results of between 0.2% and 0.4% for Sodium Sulphate Soundness

### **Note**

Typically hard rock materials that are available within the region are quarried from Metagreywacke deposits. These products have a tendency to change colour over time and will result in a change in colour from typical grey through to brown. The variance from grey to brown has little or no effect on the quality, durability or size of the final product.

### **Precautions**

Suitable handling and work instructions should be developed for use of this product that takes into account safety information that is available on the Safety Data Sheet for quarried Meta-greywacke rock. The Safety Data Sheet is available from Nucrush's website at [www.nucrush.com.au](http://www.nucrush.com.au) or by contacting Nucrush on Tel 07 5573 8000 or Fax 07 5573 2908

For more information about Nucrush and its products, please visit the Nucrush website at [www.nucrush.com.au](http://www.nucrush.com.au) or email [sales@nucrush.com.au](mailto:sales@nucrush.com.au).

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