MATRIX
KEEL BLOCKS

DURABLE AND ENVIRONMENTALLY FRIENDLY

Matrix Keel Blocks are used to support the keel of vessels when in dry dock undergoing repairs and maintenance. The blocks are comprised of a syntactic foam core and coated with a glass reinforced fibre (GRP) skin. Unlike traditional materials, Matrix Keel Blocks are robust and do not degrade or corrode over time.

Manufactured in Australia, these blocks can be manufactured in a variety of sizes to suit the lines of the ship, and its mechanical properties can be tailored to suit specific vessel size and weight requirements.

FEATURES

Matrix is a DISP approved organisation and is able to meet all Defence requirements. Features of our solution include:

- Mechanical properties:
  - Density: 300 kg/m^3 to 700 kg/m^3
  - Compressive strength: 8.5 mpa to 40 mpa
  - Compressive moduli: 500 mpa to 1,500 mpa
- Higher materials grades available upon request
- Made from recycled materials
- Long life as materials can withstand decades of environmental exposure.

BENEFITS

Matrix has extensive experience in developing syntactic foam solutions with more than $1 billion of goods delivered to customers around the world over the last decade. Additional benefits include:

- Extensive testing data across a large of range of material options is available.
- Decades of useful life - the blocks can withstand harsh marine environments.
- Ability to locally reinforce highload areas with additional GRP material if required.

MATRIX - HOME TO THE WORLD'S LARGEST SYNTACTIC FOAM MANUFACTURING FACILITY.

- Sustainabile and envrionmentally friendtly
- Short lead times
- Localised engineering support. Matrix is located in Henderson's Defence Precinct
- Specialised design can be designed if required.

MATRIX KEEL BLOCKS - TAILORABLE TO SUIT VESSEL SIZE AND WEIGHT REQUIREMENTS