



ANDROMEDA

Reusable Industrial Materials

Reusables
Division

Brochure # 035 - 08
Blasting Mats



The picture shows Andromeda Blasting Mats each 7000 x 3000 x 30 mm being laid over a blast site on a railway cutting in the Brisbane area. (Leighton Project - photo by Zelman McLaren)

BLASTING MATS

What they are:

Massive rubber/canvas mats woven from disused conveyor belts, using various techniques to fix the weft and warps together.

What they do:

Blasting mats are designed to stop rock fly when using high explosives. The high density of the rubber provides mass to absorb the energy of flying rocks.

Why Andromeda Blasting mats are used:

Being made from disused materials with minimum embodied (recycling) energy, they provide good value and durability under normal conditions.

Manufactured by:
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Standard Andromeda Blasting Mats

2000 mm x 1500 mm

Nominal thickness mm	Weight of Mat kg	Weight per sq. m kg
30	75	25
38	88	29
46	100	34
55	120	40



Method of computing the mass per sq.m of woven mat - $1.6 \times T \times WCF$ where T = thickness of parent belt (mm), and WCF is the weft cover factor, approx. value 1.5 for 100mm strips, 1.6 for 200mm strips, 1.7 for 300mm strips.

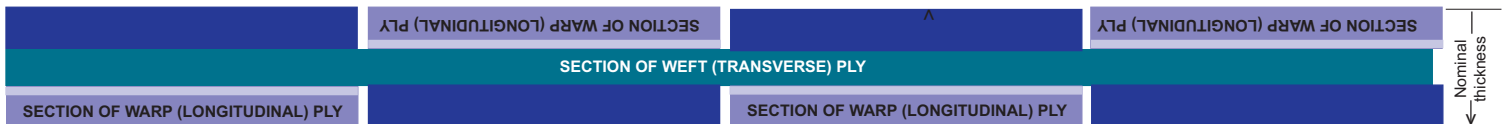
The result is in kg per sq.m.

A pile of Standard Andromeda Blasting mats ready for delivery to a major construction site in Queensland.

These are our standard format mat, designed for lifting by two men, and fitted with 4 lifting beackets for easy handling.

Note that these mats have a rolled rubber edge and are assembled with our specially developed steel eyelet system. These eyelets provide a series of 16 mm steel-lined holes through the mat and can be utilized for handling, joining or anchoring purposes. *Photo by Grahame Dunn.*

Measuring the thickness of Andromeda Blasting Mats. The drawing below shows the method of determining the nominal thickness of the mats.



Detail of the edge fixing system of Andromeda Blasting Mats

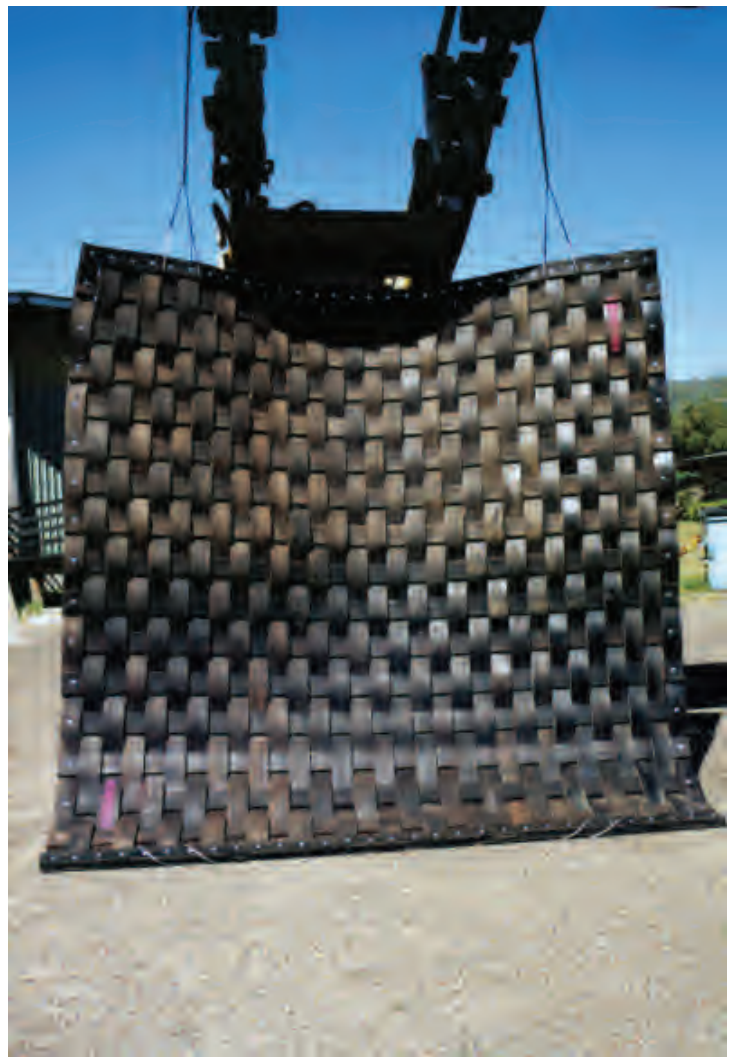
This picture shows the use of the specially developed type of eyelet system used on the standard mats. It all looks so simple, but is the result of a concerted research project # 035 in 1994. The work included the invention, design and construction of the hydraulic crimping tools, which were manufactured in our Engineering Shop. It also shows the rolled rubber edges, which make these mats very neat and safe to handle.

Photo, Raymond McLaren

Non Standard Blasting Mats recently made by Andromeda



Large mat, 7000 x 3000 x 30 mm made for Leighton Contractors railway project in Queensland. That is a Cat 988 in the background holding it aloft. *Photo Grahame Dunn*



Special extra heavy mat made for Transgrid, Tamworth. This Blasting Mat is 3000 x 3000 x 60 mm thick, and has steel slings built in to lift it. It needs them too, because it weighs over 400 kgs ! *Photo Grahame Dunn*

There is a good reason for the woven construction of these mats.

Picture shows how the woven mats conform reasonably well to the contours of uneven ground as encountered in construction or mining sites. Note the steel slings that are used to lift these heavy mats into place with a crane. *Photo by Zelman McLaren.*



More about Andromeda Blasting Mats



Typical use of blasting mats on a major roadway construction site in Brisbane, preparatory to blasting the rock base.

Photo Zelman McLaren



These extra heavy mats are made from steel cored belt and have a nominal thickness of 60 mm. They were made as a safety shield for hydrostatic testing of boilers. Each mat weighs 450 kgs and is equipped with special hanging beackets. *Photo Raymond McLaren.*



ANDROMEDA Engineering Pty Ltd



A stack of new mats ready for dispatch. Mats roll up and can be transported on trucks reasonably economically.

Photo Grahame Dunn.

OTHER PRODUCTS

Besides these Blasting Mats, the following Reusable Materials are made by Andromeda Engineering Pty Ltd at Moonbi.

Splitbelt rubber/canvas sheets, general purpose

Rubber rails for horse yards

Holeybelt grade A for utes and horse floats

Holeybelt grade B for erosion control

Staytight cattle yard wire

As well, we stock and supply **disposal wire rope** for use in silt scoops and general agricultural work.