

ALUMAT ENTRANCE MATS SPECIFICATIONS (Updated: January 2015)

1.0 GENERAL

This section relates to the supply and installation of ALUMAT entrance mats and ALUMAT ribbed carpet.

Products included are:

ALUMAT AL10 I

ALUMAT AL10 D

ALUMAT AL10 HD W

ALUMAT AL10 HD DW

ALUMAT AL15 HD I

ALUMAT AL15 HD DW

ALUMAT AL20 HD ezi-clean

Associated trims, frames and ramps

ALUMAT ribbed carpet matting

1.1 ALUMAT FLOORING SOLUTIONS CONTACT DETAILS

Office and factory : 46B Parkway Drive, Mairangi Bay, Auckland 0632

Phone 09 473 1602, 0800ALUMAT Fax 09 473 8406

Email info@alumat.co.nz

Web www.alumat.co.nz

1.2 DOCUMENTS

Documents referred to are:

AS/NZS2455.1 Textile floor coverings - installation practice.

EN 13501-1; EN ISO 9239-1 C1.12 Fire rating

Test reports Universiteit Gent Test Reports 14-456A and 14-456B

BS 4790

1.3 MANUFACTURER'S DOCUMENTS

ALUMAT© AL10 flyer, AL HD brochure

1.4 WARRANTY - PRODUCT

Provide a manufacturer's warranty for the following:

5 years Mats, interior and exterior – wear warranty for all infills of all profiles subject to normal care and maintenance, and extrusions for ALUMAT AL10 I and ALUMAT AL10 D.

10 years HD (Heavy duty) extrusions including AL10 HD W, AL15 HD I, AL15 HD DW, AL20 HD ezi-clean. Extrusions are warranted to be suitable for infill replacement by ALUMAT Flooring Solutions or their approved agents for the duration of the warranty period, subject to normal care and maintenance.

1.5 WARRANTY - INSTALLATION

A warranty for installation of matting, carpet or associated accessories to be supplied on completion with a warranty period of twelve months from the practical completion date.

1.6 NO SUBSTITUTIONS

No substitutions are permitted for specified ALUMAT products including accessories, without approval of ALUMAT Flooring Solutions to ensure compatibility and suitability.

1.7 QUALIFICATIONS – MAT INSTALLER

Mat installer must be experienced and competent for mat installations and familiar with installation procedures. Any specific concerns or advice required should be directed to ALUMAT Flooring Solutions.

1.8 QUALIFICATIONS – RIBBED CARPET LAYER

Carpet layers must be competent and experienced tradespeople and carry out installations according to procedures specified in AS/NZS 2455.1.

1.9 SUBSTRATE PREPARATION

The finished surface to which any mat or carpet is applied must be solid, clean, level and free of any surface irregularities. If necessary surfaces must be levelled and in the case of set downs, must be at a uniform and consistent depth to match the selected mat. Any levelling required must be carried out by using approved substrate surfacing compounds. Moisture levels must be no greater than 5.5%.

1.11 SAMPLES

Samples may be obtained from ALUMAT Flooring Solutions for submission to the principal if and when required. In case of uncertainty regarding colour, it is the responsibility of the contractor to ensure samples have been procured, submitted and approved before mat products are ordered.

PERFORMANCE

1.12 FIRE SAFETY

Alumat mats meet and exceed all fire ratings as required by NZBC for all situations including care and detention facilities, such as rest homes, hospitals, dormitories etc. Infills are made by Vebe Floor Coverings in the Netherlands, and treated with a special fire retardant backing for exclusive use in New Zealand by Alumat Flooring Solutions. Test results available from www.alumat.co.nz/Technical/Drawings

Classification according to EN 13501-1 (2007 +A1:2009)

EN ISO 9239-1 Critical Flux $\geq 8\text{kw/m}^2$

Smoke development $\leq 750\%$ s1

ENVIRONMENTAL PERFORMANCE

1.13 INFILLS AND CARPET

Alumat infills and ribbed carpet are dimensionally stable, low moisture absorbing, stain resistant and non-fraying.

Produced in the Netherlands from air-entangled polypropylene, with fire retardant backing and low loop ribs preserve structure and shape.

1.14 ALUMINIUM EXTRUSIONS

Aluminium frames are manufactured from 15 micron satin anodised 6063-T5 magnesium alloy. (Superior exterior grade, highly corrosion resistant to facilitate extended life of frames with future refurbishment capability)

2.0 PRODUCTS

2.1 ALUMAT AL10 I ENTRY MAT 8 – 10mm deep set down or with ramping option

AL10 I entry mat, aluminium and infill entry mat. Made specifically for 8mm to 10mm deep matwells, or surface mounted with optional surrounding factory fitted ramping on one or more sides.

Closed construction - suitable for inside or weather protected outside. Design eliminates drop through of water and dirt, keeping under mat clean and enabling easy access surface cleaning.

Fully interlocking – can be made into irregular shapes. 5 year wear warranty of 30mm wide infills including rubber scraper treads and choice of ribbed infills in a choice of colours. Refer to SELECTIONS

Mat frame has 5 year warranty with replaceable infills subject to frame condition.

- 2.1.1 ALUMAT AL10 D ENTRY MAT 8 – 10mm deep set down or with ramping option.
A variation to AL10 I with addition of intermediary drainage or evaporation channels suitable for both exterior and interior situations.
- 2.2 ALUMAT AL10 HD W ENTRY MAT 8 – 10mm deep set down, or with ramping option
AL10 HD W entry mat, aluminium and infill entry mat. Made specifically for 8mm to 10mm deep matwells, or surface mounted with optional surrounding factory fitted ramping on one or more sides.
Closed construction - suitable for inside or weather protected outside. Design eliminates drop through of water and dirt, keeping under mat clean and enabling easy access surface cleaning.
Fully interlocking – can be made into irregular shapes. 5 year wear warranty of 50mm wide infills including rubber scraper treads and choice of ribbed infills in a choice of colours. Refer to SELECTIONS
HD frame has 10 year warranty with replaceable infills.
- 2.3 ALUMAT AL10 HD DW ENTRY MAT 8-10mm deep set down or with ramping option.
A variation to AL10 HD W with addition of intermediary drainage or evaporation channels suitable for both exterior and interior situations.
- 2.4 ALUMAT AL15 HD I ENTRY MAT 15mm deep. 14- 18mm deep set down
AL15 HD I entry mat, aluminium and infill entry mat. Made specifically for 15 mm deep matwells.
Closed construction - suitable for inside or weather protected outside. Design eliminates drop through of water and dirt, keeping under mat clean and enabling easy access surface cleaning.
Fully interlocking – can be made into irregular shapes. 5 year wear warranty of 30mm wide infills including rubber scraper treads and choice of ribbed infills in a choice of colours. Refer to SELECTIONS
HD frame has 10 year warranty with replaceable infills.
- 2.5 ALUMAT AL 15 HD DW ENTRY MAT 15mm deep. 14-18mm deep set down.
AL15 HD DW entry mat, aluminium and infill entry mat. Made specifically for 15mm deep matwells.
Design incorporates drain channels to either contain surface water for evaporation, or channel to drains built into the matwell. Closed construction keeps under mat clean while working effectively both inside and exposed exterior situations.
Fully interlocking – can be made into irregular shapes. 5 year wear warranty of 50mm wide infills including rubber scraper treads and choice of ribbed infills in a choice of colours. Refer to SELECTIONS
HD frame has 10 year warranty with replaceable infills.
- 2.6 ALUMAT AL20 EZI-CLEAN ENTRY MAT 20mm deep. 18 – 22mm deep set down.
AL20 ezi-clean HD entry mat, aluminium and infill entry mat. Made specifically for 20mm deep matwells.
Fully open construction -suitable for both interior and exposed exterior situations. Rolls up for under mat cleaning.
Suitable for rectangular shaped mats only
5 year wear warranty of 30mm wide infills including rubber scraper treads and choice of ribbed infills in a choice of colours. Refer to SELECTIONS
HD frame has 10 year warranty, with replaceable infills.

MATERIALS – ENTRY MAT MATTING INSERTS

- 2.7 ALUMAT RUBBER SCRAPER TREADS.
30mm and 50mm width to match elected extrusions. Made from Thermoplastic rubber to provide good grip and excellent wear. Refer to SELECTIONS

- 2.8 ALUMAT needlepunch air entangled polypropylene. Stain resistant resists absorption of dirt to maintain appearances, while rigid ribbed structure scrapes shoes and contains moisture. Dimensionally stable fire retardant backing will not shrink back. Choice of eight standard colours (plus others on request) Refer to SELECTIONS

MATERIALS – RIBBED CARPET MATTING

- 2.9 ALUMAT needlepunch air entangled polypropylene. Stain resistant resists absorption of dirt to maintain appearances, while rigid ribbed structure scrapes shoes and contains moisture. Dimensionally stable fire retardant backing will not shrink back. Choice of eight standard colours (plus others on request) Refer to SELECTIONS

ENTRY MAT COMPONENTS

2.10 PERIMETER FRAME

Proprietary aluminium matwell frame to match selected ALUMAT Mat. Heights 8mm, 10mm, 12mm, 15mm and 20mm.

For fitting in matwells created in new tiled floors, matwell frame should be fitted 'leg out' at the time of tile laying under tile edges, using ALUMAT perimeter frame or similar.

For situations where tile surrounds are already laid, or carpet surround, matwell frames can be fitted 'leg in'. Refer to SELECTIONS.

2.11 MATWELL RAMP – OPTIONAL FOR AL10 MATS

Proprietary matwell ramp frame for all of the AL10 range for use where no mat well is provided.

10mm high ramp frame satin finish anodised 6063-T5 magnesium alloy. Ramps to be supplied prefitted from factory with concealed stainless steel connectors. Ramping can be specified for fitting on one or more sides. No drilling or plugging of substrate required or to be undertaken.

2.12 ADHESIVE - FOR BONDING ALUMINIUM TRIM TO SUBSTRATE

Adhesive suitable for bonding aluminium to the particular substrate, Sikaflex 11FC joint sealant/adhesive recommended for most situations.

ACCESSORIES

2.13 FIXINGS - FOR ALUMINIUM TRIM TO SUBSTRATE

Use stainless steel, screws or masonry anchors, suitable for substrate and trim thickness.

2.14 ADHESIVE - FOR BONDING RIBBED CARPET ENTRY MAT TO SUBSTRATE

Adhesive suitable for bonding the carpet entry mat to the particular substrate. Refer to SELECTIONS.

2.15 FLOORING TRIM - FOR RIBBED CARPET

Naplock aluminium bars. Refer to SELECTIONS.

3.0 EXECUTION

INSPECTION

- 3.1 Inspect substrate and confirm prepared surface is suitable for installation (see 1.9)

PROTECTION

- 3.2 Protect surrounding surfaces as required until installation is complete
3.3 Keep matting and carpet dry and protected from damage.

SUBSTRATE PREPARATION

- 3.4 Prepare floor substrate as required (see 1.9) Where drainage is installed, ensure drainage location points are correctly located to align with drain channels in the mats ordered and will operate freely.

INSTALLATION

INSTALLATION OF PERIMETER MAT FRAME

- 3.5 If perimeter frame is required, install ensuring all extrusions are properly adhered to substrate in accordance with ALUMAT details and requirements. Refer to SELECTIONS

INSTALLATION OF ENTRY MAT SYSTEM

- 3.6 Install entry mat system in accordance with ALUMAT details and requirements. Refer to SELECTIONS

INSTALLATION OF RIBBED CARPET

- 3.7 Install ribbed carpet entry mat in accordance with ALUMAT details and specifications

COMPLETION

REPLACE

- 3.8 Inspect and replace any damaged components.

CLEAN

- 3.9 When installation is complete, thoroughly vacuum clean. Remove marks from aluminium and infills. If marks are not able to be cleaned, replace any damaged components.

PROTECTION

- 3.10 If other trades have not completed works on site, protect finished mats by either uplifting and storing to reposition when works are completed, or provide in situ protective coverings.

4 SELECTIONS

4.1 ENTRY MAT PROFILE

Manufacturer -Alumat Flooring Solutions

Profile -

(select from – AL10 I; AL10 HD W; AL15 HD I; AL15 HD DW; AL20 HD ezi-clean)

Aluminium type- Satin anodised 6063-T5 magnesium alloy

Location -

Infill type -

(select from rubber scraper bars, or Alumat air entangled polypropylene)

Infill colour -

(select from anthracite, jet black, crown blue, red, sisal, tobacco, steel, or brownstone)

4.2 ENTRY MAT PERIMETER FRAMES

Manufacturer -Alumat Flooring Solutions, or similar

4.3 ENTRY MAT RAMPING for use with AL10 I, and AL10 HD W mat profiles

Manufacturer -Alumat Flooring Solutions

Type - Satin anodised extrusions made specifically to be factory fitted with AL10 mats
-where there is no set down provided for matting.

4.4 RIBBED CARPET ENTRY MAT

Supplier - Alumat Flooring Solutions

Carpet type -Fire retardant backed, ribbed, air-entangled polypropylene

Construction -Needle punched rib

Thickness -nominally 10mm