

6612AL ALUMAT ENTRANCE MATS

1. GENERAL

This section relates to the supply and installation of **Alumat** entrance mats.
It includes:

- modular / custom-made entrance matting systems.
- modular / custom-made entrance matting systems with draining channels.
- associated trims and frames.
- **Alumat** Vebe FR Rib carpet with flame resistant backing.

1.1 RELATED WORK

Refer to ~ for ~.

Documents

1.2 DOCUMENTS

Refer to the general section 1233 REFERENCED DOCUMENTS. The following documents are specifically referred to in this section:

[NZBC C/AS1-AS7](#) Protection from fire

ISO 9239.1 Reaction to fire tests for floorings - Determination of the burning behaviour using a radiant heat source.

[AS/NZS 2455.1](#) Textile floor coverings - Installation practice - General

1.3 MANUFACTURER/SUPPLIER DOCUMENTS

Manufacturer's and supplier's documents relating to this part of the work:

ALUMAT data sheets

ALUMAT Installation Guide

ALUMAT Maintenance Guide

Manufacturer/supplier contact details:

Company: **Alumat Flooring Solutions**

Web: www.alumat.co.nz

Email: info@alumat.co.nz

Telephone: 0800 ALUMAT (0800 258 628)

Warranties

1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:

5 years: Alumat frames, and Vebe FR Rib carpet

10 years Alumat 10 W, Alumat 10 D and Alumat 10 WD frames

20 years Alumat 15 I and Alumat 15 D frames

- Provide this warranty on **Alumat Flooring Solutions** standard form.

- Commence the warranty from practical completion.

Refer to the general section 1237 WARRANTIES for additional requirements.

1.5 WARRANTY - INSTALLER/APPLICATOR

Provide an installer warranty:

1 year: For installation

- Provide this warranty on the installer standard form.

- Commence the warranty from the date of Practical Completion of the contract works.

Refer to the general section 1237 WARRANTIES for additional requirements.

1.6 SAMPLES

Provide sample panel for each selected range and colour, for approval of colour, design and quality.

- 1.7 NO SUBSTITUTIONS
Substitutions are not permitted to any specified system, or associated components and products.
- 1.8 QUALIFICATIONS - MATTING INSTALLER
Entry mat system installers to be competent, experienced workers familiar with the materials and techniques specified.
- 1.9 QUALIFICATIONS - ALUMAT VEBE FR RIB CARPET INSTALLER
Ribbed carpet installers to be experienced, competent trades people familiar with the materials and the techniques specified, and with [AS/NZS 2455.1](#).
- 1.10 MOISTURE CONTENT OF CONCRETE SLAB FOR RIBBED CARPET
Concrete slab is to be cured and dried to a relative humidity not exceeding 75% or until the moisture content does not exceed 5.5%, in accordance with [AS/NZS 2455.1](#), refer to section 6192 FLOORING SUBSTRATE PREPARATION.
- 1.11 SPARES AND MAINTENANCE MATERIALS
Provide spares and maintenance materials listed in SELECTIONS to the Principal for ongoing maintenance requirements.

Performance

- 1.12 FIRE SAFETY
Alumat Flooring Solutions flooring tested to ISO 9239.1 and exceeds all the minimum critical radiant flux requirements of [NZBC C/AS2-AS6](#), Table 4.2, *Critical radiant flux requirements for flooring*.
- 1.13 WATER ABSORPTION
Alumat rib infill is impervious to water.

2. PRODUCTS

- 2.1 INFILLS - ENTRY MAT SYSTEM
To ISO 9239.1. Infills 100% air-entangled polypropylene with fire retardant backing. 1720g/m², pile thickness 4mm, overall pile height 10mm.
- 2.2 BASE FRAMES - ENTRY MAT SYSTEM
Exterior grade satin anodized 6063-T5 magnesium alloy, with full rubber backing.
- Entry mat system: 10mm Non-Draining - recessed or surface mounted**
- 2.3 ALUMAT 10 I ENTRY MAT
Heavy duty aluminium and infill entrance mat with sealed rubber base. Mat depth 10mm, infill width 30mm. Use in covered or weather protected areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.
- 2.4 ALUMAT 10 W ENTRY MAT
Extra heavy duty aluminium and infill entrance mat with sealed full rubber base. Mat depth 10mm, infill width 50mm. Use indoors or in covered weather protected areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.
- Entry mat system: 10mm Draining - recessed or surface mounted**
- 2.5 ALUMAT 10 D ENTRY MAT
Heavy duty aluminium and infill entrance mat with water draining channels and sealed full rubber base. Mat depth 10mm, infill width 30mm alternating with water drain channels. Use in covered weather protected or exposed areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.
- 2.6 ALUMAT 10 WD ENTRY MAT
Extra heavy duty aluminium and infill entrance mat with water draining channels and sealed full rubber base. Mat depth 10mm, infill width 50mm alternating with water drain

channels. Use in covered weather protected or exposed areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.

Entry mat system - 15mm Non draining - recessed only

- 2.7 ALUMAT 15 I ENTRY MAT
Extra heavy duty aluminium and infill entrance mat with elevated infills. Mat depth 15mm,-20mm with variable depth full rubber backing, infill width 30mm. Use indoors or in covered weather protected areas. Mat is fully interlocking; complex shapes can be seamlessly jointed. Refer to SELECTIONS.

Entry mat system - 15mm Draining - recessed only

- 2.8 ALUMAT 15 WD ENTRY MAT
Extra heavy duty aluminium and infill entrance mat with water draining channels. Mat depth 15mm, infill width 50mm alternating with water drain channels. Use in covered or outdoor weather exposed areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.

Entry mat system - 15 - 20mm Draining - recessed only

- 2.9 ALUMAT 15 D ENTRY MAT
Extra heavy duty aluminium and infill entrance mat with elevated infills and water draining channels that can be discharged to under-mat drainage points. Mat depth 15 - 20mm with variable depth full rubber backing, infill width 30mm alternating with water drain channels. Use in covered or outdoor weather-exposed areas. Mat is fully interlocking, complex shapes can be seamlessly jointed. Refer to SELECTIONS.

Rib carpet floor covering

- 2.10 ALUMAT VEBE FR RIB CARPET
To ISO 9239.1. Heavy duty, 100% pencil point needled floor covering, with flame resistant latex backing. 10.2mm thick, weight 1720g/m². Interior use or exterior in weather protected areas. Available in cut to size pieces, rolls 2.0m x 25.0m. Five colours available. Refer to SELECTIONS.

Components

- 2.11 ADHESIVE - FOR BONDING ENTRY MAT SYSTEM TO SUBSTRATE
Roberts™ 6037 adhesive for bonding entry mat system to the particular substrate.
- 2.12 FIXINGS - FOR ENTRY MAT SYSTEM TO SUBSTRATE
Use stainless steel, screws or masonry anchors, suitable for substrate and entry mat system thickness.
- 2.13 ADHESIVE - FOR BONDING VEBE FR RIB CARPET TO SUBSTRATE
Roberts™ 6037 adhesive for bonding the carpet to the particular substrate. Refer to SELECTIONS.

Accessories

- 2.14 SEALER - SEALING SUBSTRATE
Sealer suitable for sealing the particular substrate under entry mat system and Vebe FR Rib carpet. Refer to SELECTIONS.
- 2.15 FLOORING TRIM - FOR VEBE FR RIB CARPET
Proprietary aluminium matwell frame sections, to match selected mat type, from 15 micron satin anodised 6063-T5 magnesium alloy. Heights 8mm, 10mm, 12mm, 15mm and 20mm. Refer to SELECTIONS.
- 2.16 OPTIONAL RAMP FOR Alumat 10 MATS
Proprietary ramp frame for all **Alumat** 10 range for use where no matwell is provided. 10mm high extruded aluminium ramp frame, satin finish anodised 6063-T5 magnesium

alloy. Ramps to be supplied pre-fitted from factory with concealed stainless steel connectors.

3. EXECUTION

Conditions

- 3.1 INSPECTION
Before starting work inspect the substrate to ensure that it will allow work of the required standard.
- 3.2 PROTECTION
Protect adjoining work surfaces and finishes during the installation.
- 3.3 LAYOUT
Plan the general layout to conform with size and orientation requirements.
- 3.4 TEMPERATURE
Floor temperature: Minimum 16°C.
Concrete pH: No more than 10.0.
- 3.5 HANDLE AND STORE
Keep matting dry. Protect from damage.

Installation - substrate preparation

- 3.6 PREPARE FLOOR SUBSTRATE
Refer to 6192 FLOORING SUBSTRATE PREPARATION for preparation of flooring substrate.
Ensure base is smooth and level before commencing installation.
- 3.7 PREPARE FLOOR SUBSTRATE - DRAINED
Refer to 6192 FLOORING SUBSTRATE PREPARATION for preparation of flooring substrate.
Ensure base is smooth and level, and drain/drainage channels clear, before commencing installation.
- 3.8 PREPARE FLOOR SUBSTRATE - VEBE FR RIB CARPET
Refer to 6192 FLOORING SUBSTRATE PREPARATION. Prepare floor and check conditions required for laying to [AS/NZS 2455.1](#), section 2.

Installation

- 3.9 INSTALL ENTRY MAT SYSTEM
Install entry mat system in recess, in accordance with **Alumat** details and requirements. Refer to SELECTIONS.
- 3.10 INSTALL ENTRY MAT SYSTEM WITH PRE-FITTED RAMPING
Install entry mat system with pre-fitted extruded aluminium ramping, in accordance with **Alumat** details and requirements. Refer to SELECTIONS.
- 3.11 INSTALL ENTRY MAT SYSTEM WITH DRAINAGE CHANNELS IN RECESS
Install entry mat system in recess, in accordance with **Alumat** details and requirements. Refer to SELECTIONS.
- 3.12 INSTALL ENTRY MAT SYSTEM WITH DRAINAGE CHANNELS & PRE-FITTED RAMPING
Install entry mat system with pre-fitted ramping, in accordance with **Alumat** details and requirements. Refer to SELECTIONS.
- 3.13 INSTALL ALUMAT VEBE FR RIB CARPET
Install ribbed carpet in accordance with **Alumat** details and requirements. Refer to SELECTIONS.

Completion

- 3.14 REPLACE
Replace damaged or marked matting or frame.
- 3.15 LEAVE
On completion of the installation thoroughly vacuum the finished matting. Leave surfaces and recess, free of adhesive, dirt and debris and to the standard required by following procedures.
- 3.16 REMOVE
Remove debris, unused materials and elements from the site.
- 3.17 PROTECT
Protect completed work from damage for the period between completion of installation and completion of the contract works.

4. SELECTIONS

For further details on selections go to www.alumat.co.nz
Substitutions are not permitted to the following **Alumat** materials and/or associated components, unless stated otherwise.

Entry mat system: 10mm Non-Draining (recessed or surface mounted)

- 4.1 ALUMAT 10 I ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: ~
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~
- 4.2 ALUMAT 10 W ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: ~
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~

Entry mat system: 10mm Draining (recessed or surface mounted)

- 4.3 ALUMAT 10 D ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: ~
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~
- 4.4 ALUMAT 10 WD ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: ~
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~

Entry mat system: 15mm Non draining (recessed only)

- 4.5 ALUMAT 15 I ENTRY MAT
Location: ~

Manufacturer: **Alumat**
Install/type: Recessed
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~

Entry mat system: 15mm Draining (recessed only)

4.6 ALUMAT 15 WD ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: Recessed
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~

Entry mat system: 15mm - 20mm Draining (recessed only)

4.7 ALUMAT 15 D ENTRY MAT
Location: ~
Manufacturer: **Alumat**
Install/type: Recessed
Mat size: ~
Aluminium colour: To match matting insert
Matting colour: ~

Rib carpet floor covering

4.8 ALUMAT VEBE FR RIB CARPET
Location: ~
Supplier: **Alumat**
Carpet type: Vebe FR Rib
Install method: ~
Mat colour: ~
Mat size: ~
Mat thickness: Nominally 10mm
Mat orientation: ~
Aluminium trim: ~
Aluminium colour: To match matting carpet
Substrate: ~
Sealer: ~
Adhesive: Roberts 6037