

5137DP DURAPLAN WALL LININGS

1 GENERAL

This section relates to the supply and installation of **DuraPlan** pre-finished proprietary interior wall panelling system for:

- dry environments
- wet and high humidity environments
- high impact/abuse environments
- high hygiene requirement environments

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
JIS Z 2801 Antibacterial products - Test for antibacterial activity and efficacy

1.3 MANUFACTURER/SUPPLIER DOCUMENTS

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

DuraPlan Systems Ltd technical literature
Fire Test Report BSEN 476 Part 6 & 7, Group Classification 3 for Compact Laminates

Manufacturer/supplier contact details

Company: **DuraPlan Systems Ltd**
Web: www.duraplan.co.nz
Email: sales@duraplan.co.nz
Telephone: 09 972 7682

Warranties

1.4 WARRANTY - MANUFACTURER/SUPPLIER

Provide a material manufacturer/supplier warranty:

10 years For the compact laminate panel's integrity and aluminium jointers

- Provide this warranty on **DuraPlan Systems Ltd** 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.

Requirements

1.5 QUALIFICATIONS

Installers to be experienced, competent trades people familiar with the materials and techniques specified.

1.6 NO SUBSTITUTIONS

Substitutions are not permitted to any of the specified **DuraPlan** systems, components and associated products listed in this section.

Performance

1.7 SURFACE FIRE PROPERTIES

Group Number to NZBC C/AS2-AS7, table 4.1. **DuraPlan** Wall Linings are rated Group Classification 1-S, Fire Test Report 7191054407-MEC13/3-LGJ. Refer to SELECTIONS.

2 PRODUCTS

Materials

2.1 DURAPLAN COMPACT LAMINATE WALL PANELS

6mm Compact Laminate Panels made from thermosetting resins to IS EN 438-4 and anti-bacterial properties certified to JIS Z 2801:2000.
Refer to SELECTIONS for colour options.

Components

2.2 JOINTERS AND CORNER PROFILES

Extruded aluminium alloy 6063 with silver anodised finish. Extrusions may be powder coated to any colour as an optional extra. Sections to include capping, internal and external corner and jointer in 2440mm lengths as standard.

2.3 DOUBLE-SIDED TAPE

DurPlan VHB 12mm x 2mm foam tape to hold panel while glue cures. (**DuraPlan** supplied).

2.4 PRE-TREATMENT OF PANELS

Bostik Simson 'Prep M' is a one-step pre-treatment for the improvement of panel adhesion to double sided tape and adhesive.

2.5 ADHESIVE

Bostik Simson 'Tuf As Nails', or similar, applied in 6mm bead. (**DuraPlan** supplied).

2.6 PANEL TACK ADHESIVE

Bostik Simson 'Panel Tack' elastic adhesive applied in 6mm bead. (**DuraPlan** supplied).

2.7 ALUMINIUM FIXING

Stainless steel screw fixings.

3 EXECUTION

Conditions

3.1 DELIVERY, STORAGE AND HANDLING

Take delivery of panels and accessories and store on site and protect from damage. Protect finished surfaces, edges and corners from damage and store horizontally at all times. Move/handle goods in accordance with manufacturer's requirements.

Reject and replace goods that are damaged or will not provide the required finish.

Panels must be pre-conditioned to the room in which they are to be installed for not less than 24 hours prior to fixing.

The panels can be drilled with a sharp drill bit and cut to size using a skill saw with a fine tooth tungsten tip blade.

3.2 SUBSTRATE

Ensure substrate is plumb, level and in true alignment, clean, true and free from contaminants.

3.3 PROTECT

Protect adjoining areas, surfaces and finish from damage.

Installation

3.4 INSTALL TIMBER BATTENS

Fix H3.1 40mm x 18mm timber battens vertically only at maximum 600mm centres to the wall using stainless steel or galvanized fixings. Battens must be securely fixed to a solid substrate.

3.5 INSTALL ALUMINIUM CORNER AND JOINTERS

Screw fix corner and jointers progressively with the panels using stainless steel screw fixing. Allow 3mm expansion gaps in the extrusion.

3.6 DRY FIT PANELS

Dry fit the panels to test and mark batten positioning for primer application.

3.7 APPLY PRIMER

Apply Bostik 'Prep M' (supplied by **DuraPlan**) to the back of the compact laminate where the glue will contact the panel.

3.8 APPLY DOUBLE SIDED FOAM TAPE

Apply continuous 3mm foam tape (supplied by **DuraPlan**) to battens in accordance with **DuraPlan** installation instructions.

3.9 APPLY ADHESIVE

Apply a continuous 6mm bead of adhesive (supplied by **DuraPlan**) to the rear of the panel; ensuring bead is more than 10mm from edge of panel in a continuous bead. Fill in panel with adhesive in a grid pattern.

3.10 APPLY PANEL TACK ADHESIVE

Apply a continuous 6mm bead of Bostik 'Panel Tack' adhesive (supplied by **DuraPlan**) to the battens.

3.11 INSTALL PANELS

Install the panels, ensuring the Bostik 'Prep M' areas are aligned to the adhesive. Ensure there is a 3mm expansion gap within the aluminium extrusions.

Completion**3.12 ROUTINE CLEANING**

Carry out routine trade cleaning of this part of the work including periodic removal of all debris, unused and temporary materials and elements from the site.

3.13 DEFECTIVE OR DAMAGED WORK

Repair damaged or marked elements. Replace damaged or marked elements where repair is not possible or will not be acceptable. Leave work to the standard required by **DuraPlan Systems Ltd**.

4 SELECTIONS

For further details on selections go to www.duraplan.co.nz

Substitutions are not permitted to the following **DuraPlan** product unless stated otherwise.

Materials**4.1 DURAPLAN COMPACT LAMINATE WALL PANELS**

Location: ~
 Manufacturer: **DuraPlan Systems Ltd**
 Panel type: 6mm Compact Laminate Panels
 Panel size: 2440mm x 1220mm x 6mm
 Panel colour: DuraPlan 6mm range
 Aluminium extrusions: Natural silver anodised (as standard)
 Group Number: 1-S

4.2 DOUBLE SIDED TAPE

Location: ~
 Manufacturer/supplier: DuraPlan
 Brand/type: VHB DuraPlan

4.3 PRIMER

Location: ~
 Manufacturer/supplier: DuraPlan
 Brand/type: Bostik Simson Prep M

4.4 ADHESIVE

Location: ~
 Manufacturer/supplier: DuraPlan
 Brand/type: Bostik Simson Tuf As Nails

4.5 PANEL TACK ADHESIVE

Location: ~
Manufacturer/supplier: DuraPlan
Brand/type: Bostik Simson Panel Tack