



DANPALON CLADDING/ROOFING GENERAL SPECIFICATION

1. GENERAL

- 1.1 Refer to [DANPALON BROCHURE](#).
- 1.2 Refer to [DANPALON BRANZ APPRAISAL CERTIFICATES 527](#) (Commercial) or [526](#) (Domestic)
- 1.3 Documents referred to in this section are:
 - AS/NZ1562.3: 1996** - Design and Installation of sheet Roof and wall cladding.
 - AS/NZS 4256** - Plastic roofing and wall cladding materials.
 - AS.NZS 4040.4-1996** - Sandbag Impact test.
 - AS 1170.2** - SSA Loading Code part 2-Windloads.
 - AS 1530.3** - Early Fire Hazard Test
 - NZS 4203: 1992** - General structural design and design loadings for buildings.
 - NZS 4124: 2006** - Methods of determining total thermal resistance of part of buildings.

1.4 MANUFACTURER'S DOCUMENTS

All work to be carried out in accordance with manufacturers specifications and recommendations. Refer [BRANZ details](#)

All information is available from <http://www.everlight.co.nz>;

EVERLIGHT NZ LTD

Wayne Mills

Ph / Fax 09 412 7470 or 021 383 758

Email: info@everlight.co.nz

1.5 QUALIFICATIONS

DANPALON Cladding/Roofing work to be carried out by experienced, competent Roofers, Glaziers and Building Trades Persons familiar with the System.

Contractors shall have had instruction from Everlight NZ Ltd and/ or experienced installers.

1.6 MAINTENANCE PROGRAMME

Provide written maintenance programme upon completion of the Cladding/Roofing System

1.7 Warranties

Warrant this work under normal environmental and use conditions against failure.

Materials: [Danpalon 15 years Limited Warranty](#)

1.8 FIXINGS, WIND

Design and use the fixings appropriate for the wind zone (R) and topographical classification (T) of the site, and building height; as required by NZS 3604 and the wind loads on various wall areas as given by NZS 4203.

Fixing of Danpalon components to secondary structure to be designed by Engineer.

1.9 PERFORMANCE

Installer to accept responsibility for weather-tight performance of the completed cladding system, including all penetrations

1.10 ROOF PITCH

A recommended minimum 5 degree pitch, if lower than 5 degrees is a requirement contact Everlight NZ Ltd for special Danpalon Panel protection instruction.

2. PRODUCTS

2.1 PLASTIC CLADDING/ROOFING

To AS/NZS 4256.2.

2.2 POLYCARBONATE

To AS/NZS 4245.2

2.4 FLASHINGS

Supplied and installed TO NZBC building code.

Check compatibility with associated metal cladding to all window and door elements.

Formable grade (0.55) BMT for galvanised, aluminium or zinc-coated and steel/ timber, and (0.90) for aluminium to the same profiled sheets, notched where across profile or provided with a soft edge.

Use compressible foam or neoprene strips where possible for weathertightness

Refer: [BRANZ details](#)

2.7 FASTENERS GENERALLY

Durability of all fasteners not less than the cladding/roofing material fixed

2.8 FIXING CONNECTORS

Aluminium/Polycarbonate u-connector supplied by cladding/roofing distributor

Aluminum/Polycarbonate u-connector endcaps: supplied by cladding/roofing distributor

Aluminium SSFS F-section supplied by cladding/roofing distributor.

SS Trapezoidal or HD Knee fasteners and wafer screws: supplied by cladding/roofing distributor

2.9 FIXING COMPONENTS

Fixing of u-connectors to secondary frame designed by Structural Engineer.

2.10 SCREWS/ BOLTS/RIVETS

Refer: [BRANZ details](#)

2.11 SEALANT

Neutral curing non-acidic silicone or polymer as required by cladding/roofing distributor and use as directed.

2.12 BREATHER TAPE

Breather tape AD3400 supplied by Cladding/Roofing distributor.
Note: Danpalon Panels must have AD3400 tape applied prior to exposed to the outside element and panel erection

2.13 ALUMINIUM/POLYCARBONATE PANEL ENDCAPS

Supplied by cladding/roofing distributor

3. EXECUTION

3.1 INSPECTION

Inspect all framing and supporting structure to ensure that it is complete and fully braced ready for cladding. Do not start work until all requirements are complete to the required standard.

3.2 STORAGE

Take delivery of and accept packs of Danpalon panels and accessories to site.

Refer to [Storage instructions](#). Do not allow moisture entering the Panel Cells, prior or during construction.

DANPALON PANELS MUST BE STORED IN A DRY AND SAFE ENVIRONMENT

3.3 HANDLING

Do not compress or use chains or ropes directly on or around the Danpalon Panels. Man handle panels signally to avoid unnecessary surface rubbing.

Do not allow the plastic protection on the Danpalon Panels to coming to direct heat /sunlight, remove just prior to construction.

Protect edges and surface finishes from damage.

Refer [Everlight Installation](#)

3.4 CUTTING

Danpalon Panels shall be cut using a sharp fine tooth handsaw, circular saw with fine tooth metal blade. Cutting may produce fine plastic chips getting into the panel cells, remove by a vacuum or clean compressor air gun.

Always protect the Danpalon surface to be used from saw drag marks during the cutting operation.

3.5 SET-OUT

Carefully set out fixing components at exact centres to fit the Danpalon Panels being used.

Always check for creep or spread to keep the Danpalon panels in a vertical alignment and fastenings in line.

Do not install any damaged or marked Danpalon panels.

Always allow a gap at the top, base and outer edges of the Danpalon Panel for thermal expansion.

Refer [Everlight Information Brochure](#)

3.6 FIXING

Refer section 2 of this specification

3.7 COMPLETE

Ensure the work is complete with all flashings, finishings and trim properly installed so cladding/roofing system is completed in accordance with the drawings and relevant codes.

3.8 REPLACE

Replace all damaged or marked element

3.9 LEAVE

Leave this work complete with all necessary flashings properly installed as the work proceeds so the finish cladding/roofing is complete in accordance with the drawings.

3.10 CLEAN

Refer [EVERLIGHT Cleaning Instructions](#)

3.11 REMOVE

Remove all debris, unused materials and elements from the site.

3.12 HEALTH & SAFETY

Avoid stepping directly onto Danpalon Panels, if necessary only step on panels where they have Purlin or rafter support. Only use clear rubber sole footwear and use extreme care when panels are wet.

4. SCHEDULES

4.1 DANPALON CLADDING/ROOFING SUPPLIER ITEMS

4.1.1 POLYCARBONATE

Brand:

Type:

Colour:

4.1.2 U-CONNECTORS/HARDY MULLION

Type:

Finish:

Location: Refer to drawings

Connection to structure: Refer to drawings.

4.1.3 U-CONNECTOR END CAP

Type:

Finish:

4.1.4 STAINLESS STEEL KNEE FASTENERS/ANGLE BRACKETS/ SS BOLTS/NUTS & SCREWS

Type:

Location: Refer to drawings

4.1.5 F-SECTION

Type

Finish

Location: Where shown on drawings.

4.1.6 DANPALON ALUMINIUM/ POLYCARBONATE PANEL ENDCAP X 3000MM

Type:

Finish:

Location: Refer to Drawings. Normally Aluminium to Lower end and Polycarbonate to Top End of panel.

4.1.7 EVERLIGHT AD3400 SERIES ANTIDUST/ BREATHER & BLANKING TAPE

Type: AD3400 Series (AD3425 OR AD3438 Breather tape for lower end of Danpalon panels only)

(G 3635 or G3638 Blanking tape for top end of Danpalon panels only)

Location: Refer to drawings