



Acrytec
PANEL INDUSTRIES

Installation Guide: NC 25 System

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Proper Storage and Handling

- Ensure panels are stacked on flat surface
- Keep panels protected from elements at all times
- Carry panels in an upright position
- **Do not carry panels flat from either ends**
- **Do not drop or hit edges of panels**
- **Do not allow panels to sag when lifting.**
- Exercise caution when handling channels and panels by using proper protective equipment.

NOTE: Use only Acrytec materials and components for installation of Rainscreen Systems. Installers must be certified and trained by Acrytec Panel Industries

Suitable Substrates

- Poured concrete
- Structural concrete block
- Wood studs with sheathing
- Structural metal studs with sheathing
- Existing substrates (approved by engineer)

Substrates are to be inspected for sound structural integrity and be approved by certified project engineer.

Substrate surface preparation must meet acceptable building standards and be free of any obstructions, straight and uniform.

The substrate must also be capable of handling load requirements for Acrytec Rainscreen systems.

Flashing

All flashing details must be pre-installed as indicated by architectural drawings. For information purposes

Moisture Barrier

Moisture and vapor barrier materials must be in accordance to local building code requirements and installed as specified. (Seal all window details/wall openings appropriately, prior to installation of Acrytec channel(s). **Be sure to follow manufacturer's instructions.**

Metal Channels/Components

All channels must be installed securely using Acrytec fasteners, and components, to the suitable substrate.

Acry-Channels are Available in:

G90 galvanized; GalvaLoom [aluminum oxide coating]; & Stainless Steel.

Acry-Channels also include a pre installed 3M self sealing weather strip on flange.

18 gauge G90 galvanized Channels standard;

- I. Acry-channel 25 (Depth=25 mm, width=62.5mm, length=2440mm)

26 gauge galvanized Join/termination components include;

- I. Acry-band (62.5mm x 2440mm)
- II. Acry-90* (L shaped 50mm x 100mm x 2440mm)
- III. 3M 540 adhesive (10mm diameter bead)
- IV. Tremco spectrum 3 low modulus sealant or illmod 600

Stainless Steel Fasteners

- 1.5" # 10 Pan Socket Self-Drilling stainless steel Screw – used for fastening Acry-channels through sheathing into metal studs.
- 1.5" #10 Round Socket stainless steel wood screws-used for fastening Acry-channel through sheathing into wood studs.
- 3/16" industrial stainless steel rivet
- 1.25" # 6 Flat Socket Self-Drilling corrosion coated stainless steel screw-used for securing Acry NC Panels to Acry-channels

Note: Do not over tighten mechanical fasteners as it will cause screws to strip therefore not providing adequate support. All stripped fasteners must be removed immediately.

How to Install Acry-Channels & Components

Substrate surface preparation must meet acceptable building standards and be free of any obstructions, straight and uniform.

The substrate must also be capable of handling load requirements for Acrytec Rainscreen systems. Ensure moisture barrier is installed as per building code and manufacturers specifications

- 1) Establish termination points (i.e. at grade, top of windows, doors, top of wall etc.) and install channels horizontally, tightly butted together with appropriate fasteners to every vertical stud. (If substrate is concrete or block, span fasteners no greater than 400mm apart). Ensure 25mm flange is always pointed up.
- 2) Begin with installation of vertical channels securely fastened to every vertical stud with appropriate mechanical fasteners. Add additional channels where necessary for added support where required. Span fasteners no greater than 400mm apart. Do not overlap any channels. Vertical structural studs shall not be spaced more than 400mm apart.
- 3) Add **Acry-band** at all horizontal joints and expansion joints, during panel installation. Note*at expansion joints the Acry-band must be fastened only on one side to allow for expansion and contraction.
- 4) During panel installation add the **Acry-90** at all outside and inside corners.

Installation of Acrytec Panels

Note: Keep finished face down when cutting panels.

- Install panel to the channels using appropriate size and type of mechanical fasteners (specified adhesive must be used in conjunction with mechanical fasteners on all NC Panels. 3M 540 sealant must be applied to all channels in a zig zag pattern using a 10mm bead).

- **If illmod 600 is being used, apply during installation of panels, as per manufacturers specifications.**
- Pre drill all Acry NC panels before the installation of each corrosion coated stainless steel fastener (remove panel dust created from drilling).
- Counter sink all fasteners to a depth of 4mm (from surface) no more than 450mm apart and keeping a distance of 15mm from panel edges and 75mm from panel corners.

Reminder: add Acrytec components as required during installation process.

{Example: Acry 90 & Acry-Band}

Patching Fasteners

EXTREMELEY IMPORTANT:

- A. Prior to patching screw holes, ensure panel surface is flat and clean(remove loose debris).
- B. Mix material in container prior to use.
- C. Using supplied Acrytec color matched finish, fill the fastener cavity in with the amount needed to fill in screw hole, **not exceeding the size of the screw hole diameter.**
- D. Remove excess material to ensure a flat surface.
- E. Patch screw heads as soon as possible to avoid color variations. (Recommended time lapse of no more than 24 hrs).

Caution-Do not apply patching material below 5 degree Celsius.

Sealants

- Tremco Spectrem 3 low modulus sealant
- Compressed Polyurethane Foam Sealant (illmod 600)