Installation Guide
Industrial\commercial
Roof
RC\Concrete\Flat
New
Contractor - Ready

Tools: Cutting knife, measuring roll, staple gun + 12mm pins, Driller or electric screwdriver.

Installation Accessories: wooden strips or metal C shape strips, self tapping screws, Polynum or equivalent joints sealing tape.

Recommended to use protective glasses.

Products range: All Polynum™ products.

General: Polynum™ insulation can be easily installed under existing roof, using a supporting wooden or metal frame. The use of wooden frame will allow faster and easier installation process.

Step 1: Fix with self tapping screws pre-made wooden strips (furring) or, C shape strips into an existing RCC or Concrete slab. Use at least 2" (50mm) x 1" (25mm) wood strips or C shape lines. Place the wood furring\metal strips 1.15m to 1.17m apart. In some cases, it is possible to prepare a frame, and later fixing the frame to the RCC slabs, similar to drop (false) ceiling (see illustration 1a).
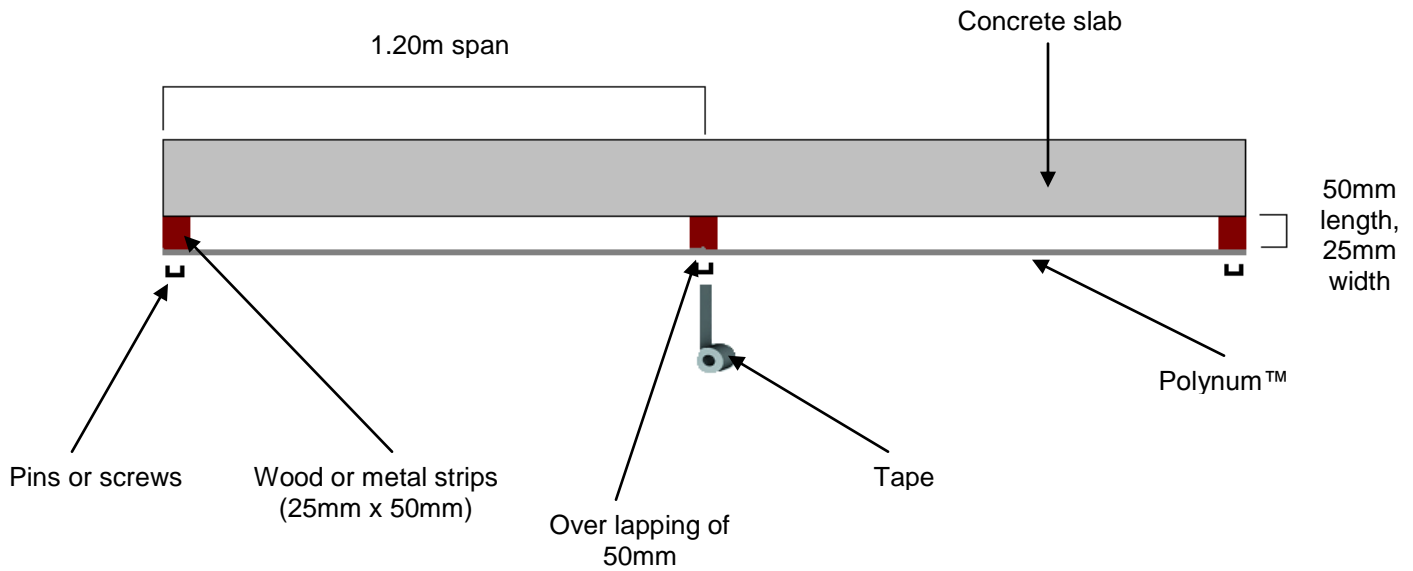
Step 2: Using measuring roll, measure the ceiling length. Unwrap Polynum insulation from its original packaging. Using cutting-knife, cut the Polynum at the desired length (prepare Polynum "shreds" per the required length). Allow 15cm (6 inches) for edge overlapping at the end of each piece. (Example: If ceiling length is 7.00m, and width is 4.00m you will need to cut 4x Polynum shreds, 7.30m (approx 21 feet long each).
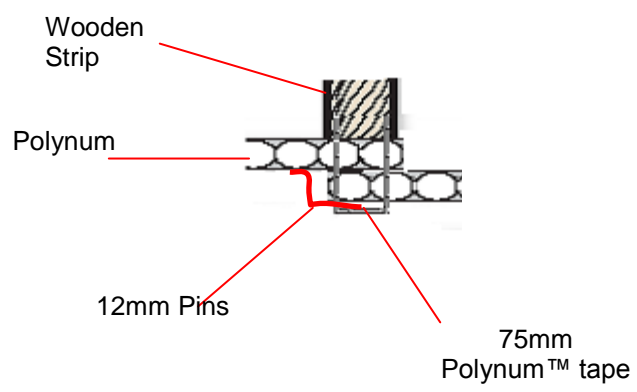
Step 3: Starting from the edge, secure Polynum to pre-installed wood or metal strips (leave 10 to 15cm (4 to 6 inches) of extra "tail" (figure 3a) to be cut later, when work is completed). Move along the pre-installed strips, fixing Polynum with staple pins (if using wooden strips) or self tapping screws (if using C shape metal lines) See 3b illustration. Allow 15cm (6 inches) interval between each fixing point. Make sure to stretch the Polynum shreds to avoid sagging.

Step 4: Upon finishing fixing the first Polynum shred continue with the second (parallel) shred. Follow step 3. If using self adhesive product: upon proceeding, secure the joints (over-lapping) with Polynum self-adhesive strips. When using Polynum without self-adhesive: When fixing the shred onto the strips (lines) with already installed Polynum, 50mm (2 inches) of overlapping is required (the distance between the pre-installed strips\lines is less than Polynum width). See illustration 4a. Use staple pins or self tapping screws to secure the overlapping joints. Ensure to staple both Polynum joints together. Upon finishing each shred, use Polynum all weather heavy duty closing tape to seal the joints.

- Polynum™ installation process is clean, fast and efficient
- Polynum™ required less labor and less time covering similar area compare with bulk insulation
- Polynum™ can be installed anywhere in the buildings.
- Polynum™ only required measuring tape, cutting knife, ducting tape and pair of hands…
- Polynum™ can be left exposed for the installation duration. No need extra cover or handling.
- Polynum™ can be shaped and cut to size, reduced wastage!
- Polynum™ requires no gloves or special protection aids.
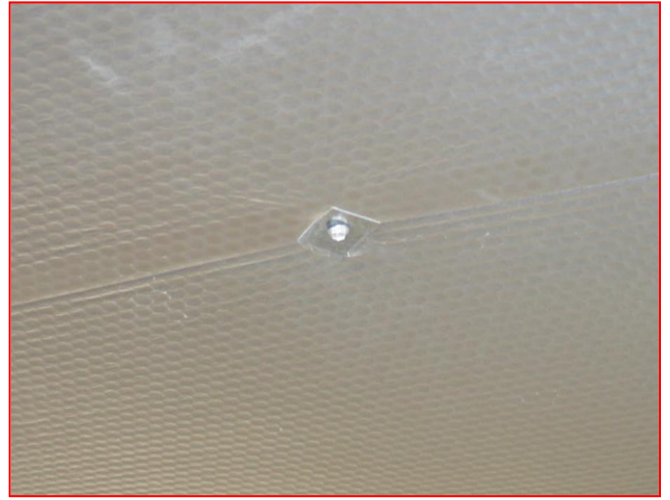- There are almost no limitations to where Polynum™ can be used

Concrete slab

1.20m span

50mm length, 25mm width

Polynum™

Pins or screws

Wood or metal strips (25mm x 50mm)

Over lapping of 50mm

Tape

1a

Pre- made metal frame

3a

3b

4a

Guide for overlapping joints:

Wooden Strip

Polynum

12mm Pins

75mm Polynum™ tape

Fixing method illustration when using C shape metal strips:

Self-tapping screws are used with wide flat washers

Screw and washer used to attach Polynum to metal frame

Cutting and aligning the edges

Once Polynum is attached, tape is used to seal over laps