

Tremco Polypads

Adjustable supports for paving slabs

Product Description:

Polypads are specially designed supports for the placement of prefabricated paving slabs of concrete, autoclaved compressed cement sheets, etc, on roof and podium decks and other areas where a well drained pedestrian surface is required. Made of durable, strong polypropylene, they offer a unique adjustment facility (registered design nos 32073/71 and 48014/72) which allows slabs to be laid to a level surface quickly and easily.

Designed to be used at the junction of the slabs, each **Polypad** has four square supports on a circular base plate which has a bevelled edge to ensure that there is no potential mechanical damage to waterproofing membranes. Spacer lugs located between the supports ensure proper alignment of the slabs and uniform gap spacing between them. The four supports are individually adjustable, from a minimum height of 30 mm to a maximum height of 45 mm, to allow for levelling of the slabs on a sloped substrate and to accommodate small variations in slab thickness.

Polypads make old methods of laying concrete paving, with their attendant drainage and maintenance problems, obsolete. Because they raise the paving slabs above the substrate and ensure uniform, open joints, **Polypads** promote rapid drainage of surface water, eliminating unpleasant puddling even though structural slabs may not provide adequate falls. No setting beds are required so potential rocking of individual slabs is eliminated and there are no joint caulking problems, which means there is no maintenance. **Polypads** are simply positioned on the substrate and the paving is laid straight over them. Expansion and contraction of the slabs can take place without damage to the substrate or the roof membrane.

Polypads create an air space between the slabs and the substrate which contributes to good insulation by reducing temperature variation within the building and on roofs protecting the roof membrane from deterioration through contact with the atmosphere or solar radiation.

The air space also dampens pedestrian noise, effectively reducing the impact of structure borne sound.

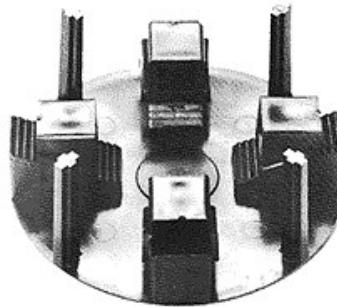
Polypad supported paving is an ideal surface finish when rooftop restaurants, gardens and swimming pools are planned as it facilitates installation and maintenance of the necessary services.

The **Polypads** allow the paving to conceal turnups of the built-up roofing, cover flashings, water pipes, electrical wiring, etc, while at the same time making access, for maintenance of those services or new installations, quite simple.

Polypads reduce slab laying and maintenance costs and promote design freedom. The slabs and **Polypads** are readily removed to make way for alterations and additions and are reusable.

Applications

Polypads are used to support a wide range of paving slab materials including natural or exposed aggregate finished precast concrete, autoclaved structural compressed cement sheeting, metal and synthetic paving, natural stone and marble. With their high



High compressive strength, light weight and special design features, they are suitable for all types of construction from multi-storey commercial and industrial complexes to domestic buildings, providing excellent pedestrian surfaces for:

Roof and podium deck areas
Rooftop restaurants, gardens and swimming pools
Concourses, malls, balconies, verandahs, courtyards
Internal access floors

Polypads may also be used for barbecue areas, swimming pool surrounds and other decorative and functional outdoor paving.

Characteristics:

Supply:

Polypads are manually adjustable and are available in packs of 50

Weight:

Standard **Polypads** - 125 g

Colour:

Black

Dimensions:

Data	Polypad
Surface of base plate	150 cm ²
Height adjustment	30-45 mm
At increments of	1.5 mm
Load bearing capacity/support	500kg
Load bearing capacity/total	2000kg
Width of spacers (width of joints)	7 mm
Resistance to temperature	-40 to + 120°C

Coverage:

May be estimated on the basis of one **Polypad** per slab.

Properties:

Strength:

As shown in the above table, each of the four supports is capable of carrying 500 kg, giving a total load bearing capacity per **Polypad** of 2000kg. However, the slab weight must be determined according to the load bearing capacity of the substrate.

Compressive Strength:

The load carrying capacity of **Polypads** has been determined from compressive tests carried out by the Department of Public Works, NSW, Materials Testing and Chemical Services Laboratory Investigation No. 3798, February 12, 1974, and overseas consultants. **Polypads** also meet the compressive strength requirements of the German Standard Test DIN 1055.

Resistance to Biological Attack:

Polypads have excellent resistance to bacterial and insect attack and will not readily support mould or mildew growth, particularly since they are well ventilated by means of the gaps formed by the spacer lugs between the paving slabs.

Resistance to Chemicals:

Polypads offer good resistance to oil, acids, alkalis, hot asphalt and other chemicals and will not react adversely with other ma-

terials normally found on building sites.

Durability:

Due to the positions of Polypads beneath the slabs, they are protected against mechanical damage and extreme weathering and therefore have excellent durability.

Specification Notes:

The following data may be used as an information checklist for specifying the product:

Name: Tremco Polypads

Extent: Area to be paved. (*Architects' Note: Number of Polypads required may be estimated on the basis of one per slab. However depending on the slab size, shape and its spanning capacity it may be necessary to have additional supports along the sides.*)

Surface Preparation and Application: Polypads should be installed according to manufacturer's instructions and commensurate with good building practice.

Site Notes: Care must be taken to ensure that spacer lugs are not damaged by careless storage on site.

Installation:

1. Mark out the corner intersections of the paving slabs on the surface to be paved to locate the position of each pad.
2. If it is desired to create a larger air gap on a flat surface or provide a flat area on a surface having a slope greater than can be taken up in adjustment, pack up to a levelling line with brick or concrete blocks in position marked out for each pad.
3. For free edges and corners, side supports for extra long slabs, cut the required portion from the whole pad with the handsaw or scribe the pad with a sharp knife and break along cut.
4. Assemble rows of pads and part pads in the appropriate positions marked out.
Place the slabs, simply adjusting individual pedestals as each slab is laid.