

PROGRATE INSTALLATION.

Material

Prograte is a perforated fibre reinforced sheet.

Sheet Size

1805mm Long x 1205mm Wide x 15mm Deep

Clip Size

304 Stainless Steel
30mm Long X 12mm wide x 1.2mm thick.
Bags of 100

Screws

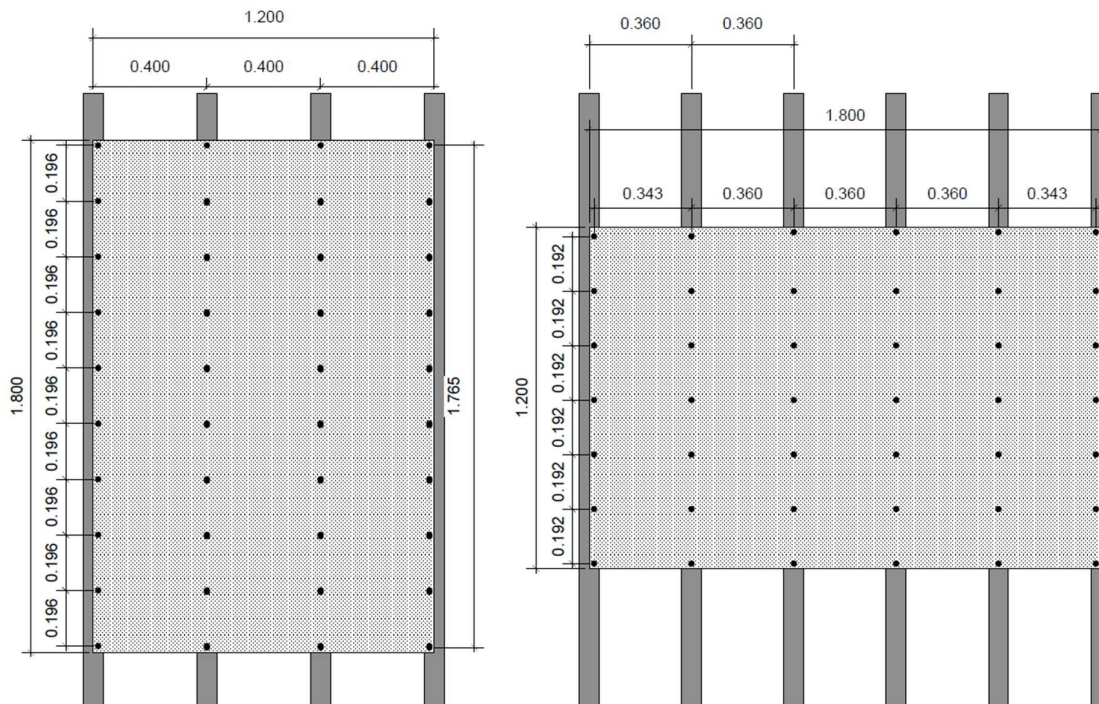
Metal – Stainless Steel 410 hardened M4.2-8 x 35 self-drilling screw.
Bags of 100
Timber - Stainless Steel 304 M4.2-8 x 35 wood screw.
Bags of 100

Average Quantities

2.16 square meters per sheet
41 clips and screws per sheet.

Span Table and deflection in millimeters

Span	2 KPA 180kg	4 KPA 270 kg
450 centers	3.3mm	5.7mm
400 centers	2.6mm	3.7mm
300 centers	2.5mm	3.2mm



DELIVERY AND STORAGE

Prograte should be kept clean and dry before installation. Store Prograte flat on the ground with at least 40mm timber gluts to elevate off the ground and cover. Avoid mud and dirt on the surface of the sheets.

FRAMING

Joist spacings are as per span table for load requirements. In applications where the finished deck level is 300mm or above, the Prograte is designed to be installed onto H3.2 timber joists as per NZ3604 – Residential Timber Framed Construction. In applications where the finished deck level is 299mm or below, the Prograte is designed to be installed onto Proframe Aluminium deck framing as per specific design residential timber framed construction. Installations under 299mm on timber subframes must meet the minimum H4 timber treatment under NZ3604 -Residential Timber Framed Construction. Prograte is designed to be supported and fastened down to a subframe. Any other application is specifically excluded from the product warranty.

INSTALLATION

Check the subframe is straight and level and joist spacings is correct and free of any foreign matter before installation. The sheets are designed to be installed with the 15mm aperture to the top.

Install the first sheet flush with outside joist making sure the sheet is square to the frame. The other end of the sheet should sit half on a joist, allowing room for the next sheet to have adequate fixing as well.

Insert a clip into the top corner of the 15mmx15mm squares making sure you have enough fixing to do so. Place a screw into the centre of the clip and fasten down till firm. Check the sheet is parallel with the joist and repeat the process in all four corners. This will hold the sheet in place while being screwed off. Screw the sheet off at **200mm centres to the perimeter and internal joists**. If a clip hits another clip turn the clip 90 degrees to avoid any interference. Lay the next sheet beside the first and repeat the process. Staggering the sheet joins is recommended.

Inspection Hatches.

Frame out any access points required, allowing enough support and room for accessibility and cleaning. Cut the sheet in the centre of the supports around the hatch and secure down. Screw the hatch down separately for easy access when required.

Butt Joins – Ensure all butt joins are joined on top of joists; no double joist is required. For extra support noggling, the sheet line can be done but not required if joist spacing is correct.

Cutting and Drilling – **This should always be done in a well-ventilated area. PPE is recommended when cutting and drilling.**

Sheets can be cut using high-quality carbide-tipped saw blades and high-speed steel drill bits.