

How to use SignGrip®



The installation process for SignGrip® is amazingly easy. The SignGrip® body is first measured to length against the Light Box. Self drilling screws are used to attach the product to the edge of the box.

The fabric is next measured and cut to size allowing 150mm on each edge. Each corner of the fabric is now anchored in place using short strips of the "V shaped plastic Keeper".

Using the special tool with the blade against the Keeper groove, insert the fabric and the Keeper to the first ridge of the SignGrip®. Retighten the fabric to the second ridge by pushing the fabric into the Keeper groove using the special tool.

The SignGrip® has three ridges in all so that the fabric can be tightened as needed and ensure a drum tight finish. Now cut and measure the powder coated Cover Plate to size, fold the loose fabric into the groove of the main channel and fix the Cover Plate once again with self drilling screws.

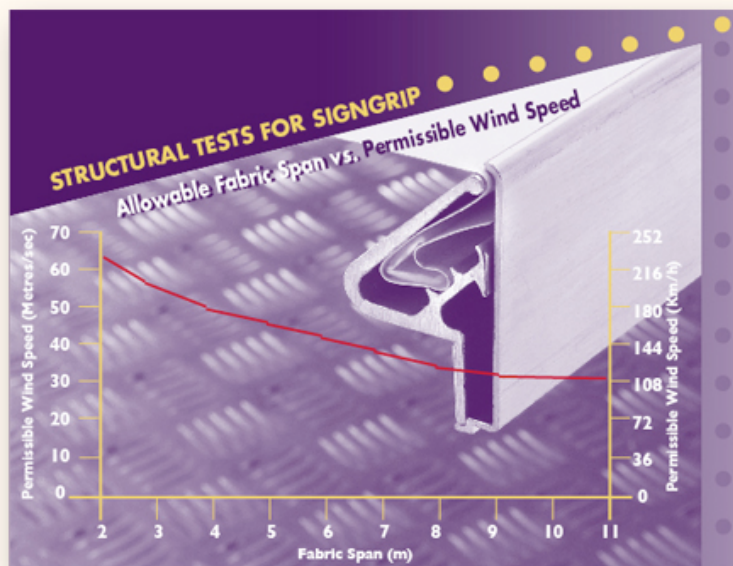
To gain access to the Light Box interior to change the light tubes simply remove the Cover Plate and pull on the loose edge of the fabric near a corner using a wide nosed pair of locking pliers, if necessary. This will release the Keeper so a thin narrow blade or similar tool can be slid between the Keeper and the SignGrip ridge to release the fabric.



Tip: Grip the loose fabric as close to the SignGrip edge as possible and then lever the pliers over. An ideal tool for sliding along the Keeper is an artists pallet knife about 200mm long. **Do not use any sharp edged tools.**

This graph was prepared by Wade Consultants, structural engineers, using a special computer model developed for designing high tension fabric structures.

The SignGrip® sections were tested by ETRS Pty Ltd, a recognised commercial testing laboratory in Henderson, Western Australia.



Assumptions:

- The allowable pullout strength of S 145 SignGrip® was taken as 7kN/m (0.71 tonnes/m). Minimum test results are 8.9kN/m (0.91 tonnes/m).
- The sign box has a separate face on either side.
- The SignGrip® is attached continuously around the entire perimeter of the sign face.
- The allowable fabric span is the short side of a rectangular sign.
- Permissible wind speeds and pressure coefficients are to AS1170.2.
- This graph does not address sign face deflection. Large spans will experience larger deflections depending on the fabric used.
- The fabric properties used in the analysis were: Material weight = 700g/m² and Elastic modulus = 300kPa.