Kalzip

# Kalzip Roof System – Kalzip Liner Roof System

## Technical Information

TIS-SYS-LINER-101
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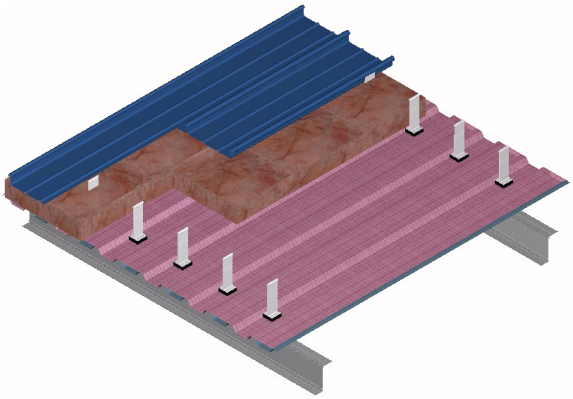
## Kalzip Liner Roof System



One of the most common forms of Kalzip Roof Systems is the Kalzip Liner Roof System. This roof construction consists of a Kalzip standing seam outer sheet, Kalzip insulation, Kalzip vapour control layer and a Kalzip Liner sheet.

Kalzip Liner Roof Systems are predominantly used for new build construction, although they can be used for refurbishment especially where the existing roofing system has been completely removed.

The Kalzip Liner Roof System is ideal where speed of installation on a project is of utmost importance. A non-fragile walkable Kalzip liner sheet can be quickly installed to provide a temporary weather cover to allow other trades to work below. The remainder of the roofing components can then be installed without affecting the critical path of the construction programme.

**The Kalzip Liner Roof System** has the outer Kalzip standing seam roof sheet and the internal Kalzip liner trapezoidal profiled liner sheet laid in the same direction across roof purlins acting as the primary support. Typical purlin centres would be approximately 1.0 to 2.4 m. This type of roof construction can also be known as a purlin roof construction.

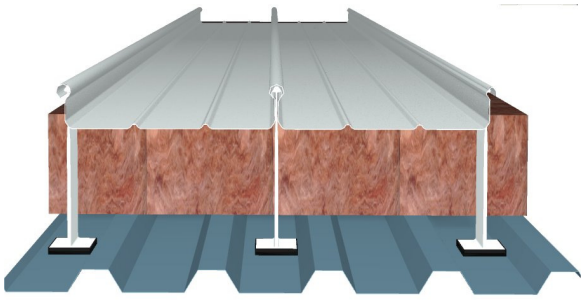
The Kalzip standing seam roof sheets are supported directly off the roof purlins via the support clips/halters (ST Clips or E-Clips) so therefore act independently of the Kalzip liner sheet. When lightweight quilt type insulation (compressed by approximately 15 to 20 mm) is used the external loads (wind suction, snow, access etc.) are transmitted direct to the support purlins and not the liner sheet.

The profile and thickness of the Kalzip standing seam roof sheet will be determined by the external loads and the purlin centres.

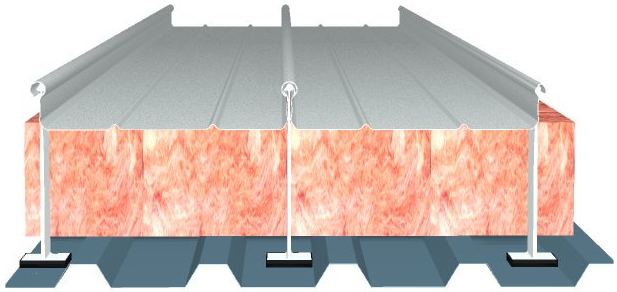
The profile of the Kalzip liner sheets will be determined by its dimensional compatibility with the Kalzip standing seam roof sheet and its thickness will be determined by the internal wind loads, the purlin centres, dead weight of the construction components, its walkability requirement and its non-fragility rating.

# Kalzip Liner Roof System – Variations

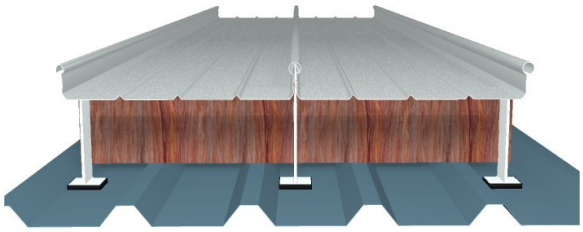
## Kalzip 65 profiles



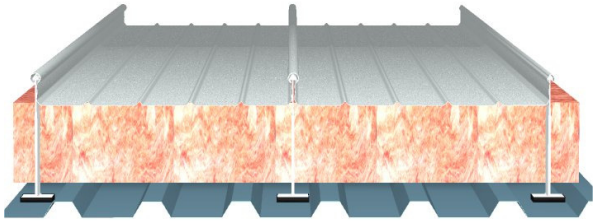
**Kalzip 65/305 with Kalzip TR30/152 liner sheet**



**Kalzip 65/333 with Kalzip TR30/167 liner sheet**

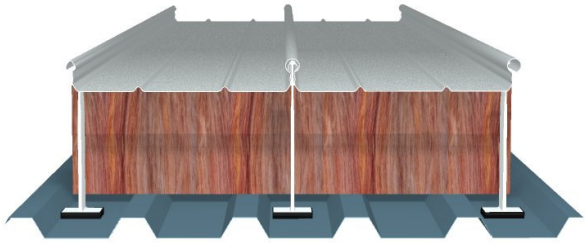


**Kalzip 65/400 with Kalzip TR35/200 liner sheet**

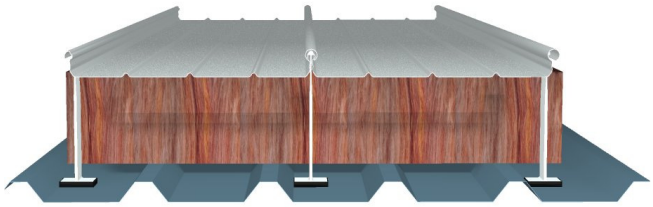


**Kalzip 65/500 with Kalzip TR30/167 liner sheet**

## Kalzip 50 profiles



**Kalzip 50/333 with Kalzip TR30/167 liner sheet**



**Kalzip 50/429 with Kalzip TR35/215 liner sheet**

For detailed information on Load/span capability, U values etc, of the Kalzip Liner Roof System variations please see the relevant Technical Information Sheets.

**NOTE:**

This form of roof construction can also be modified to accommodate various acoustic performance requirements, by incorporating other layers such as high density insulation, boards and flexible membranes to provide increased sound reduction performance and by perforating the liner to provide increased sound absorption performance. The requirement for high performance acoustic metal roofing is typically used for stadia, arenas, leisure centres, swimming pools, multiplex cinemas, office accommodation, residential, educational facilities etc. Please see the relevant Technical Information Sheets for further detailed information.