

Large span composite roofing sheets

Composite roofing panels were used on a project as opposed to the traditional built-up system. This product can be manufactured in sheet lengths of up to 25m (though transport of the sheets will be a limiting factor). By using this product in 12m lengths it was able to cover the full span of the roof with no lateral joints.

Installation required the use of a crane to lift the panels but was very rapid and produced a weather tight shell in approximately half the normal installation time.

Key Points

- Fixing & detailing is made much simpler by having larger sheets with no end laps or intermediate joints
- Fewer joints reduced the likelihood of leaks
- Sit installation time cut in half compared with traditional built-up systems.
- Meter wide module and standard fasteners simplifies site installation and handling.
- Cost of crane was additional but composite panels are now getting very heavy (due to ever increasing requirements for better u-values) such that manual handling is getting to be a real problem even with traditional built-up panels.
- Need to consider transportation limitations for buildings with longer spans.

