

## Profiled Sheetting Damp Patches

TECHNICAL  
NOTE

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Eternit profiled sheets are manufactured in Great Britain and meet the highest strength category of BS EN 494. Shade variations may occur in the material depending on cement batches. There may also be a slight rippling of the surface and minor fissures to the underside, but this does not impair the performance of the sheets. When fixed in accordance with our recommendations, Eternit profiled sheets form a weathertight roof covering with a design life of 40 years.

Occasionally damp patches may occur on the underside of new sheets, particularly on low pitch roofs with slow drainage discharge. They are generally caused by a combination of permeability and condensation, as the material can absorb up to 25% of its dry weight in moisture. The amount of water that the material can absorb diminishes in time as the material continues to cure and any pores within the cement matrix become filled with crystals, thereby reducing the incidence of damp patches. Damp patches are more likely to occur when the building is still drying out and the sheets are new and can be reduced by providing ventilation into the building.

If Profiled Sheets are installed below the recommended pitch, there would be insufficient water run-off, causing the water to sit on top of the sheets. The recommended pitch for the corrugated sheets is Profile 6 (5°) and Profile 3 (10°).

Impermeability tests are carried out on the material by sealing a frame to the top side of a sheet and filling it with water to a depth of 60mm. After 24 hours, damp patches occasionally occur on the underside, but drips never form. The material therefore meets the impermeability requirements of BS EN 494.

Condensation can occur on the internal surface when the temperature of the material is below the dew point of the air, such as on frosty nights or a cold rainstorm. Much of the moisture can be absorbed by the fibre cement, although if this already has a high moisture content, the condensation may drip from the underside of the roof. Please note that the condensate is alkali and in the case of droplets falling onto a parked car, may affect the paintwork if it is not allowed to dry out.

After several years, moss and lichen may start to grow on the sheets. Many owners prefer this natural mellowing of the surface, but if you want to remove the growth please contact the Technical Department for further advice.

### Disclaimer

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