



Daraflexsystem

WATERPROOFING OF WOODEN BOARDED ROOFS

Discussion

Boarded roofs generally display considerable movement. Gaps of variable widths exist between boards and normally the locating nails work loose with time.

Surface Preparation

All forms of surface contamination must be removed to ensure a uniform surface, free of any barrier to adhesion. Ensure that all locating nails are serving their function recommended. Standing water present after rain and run-off in excess of 5 mm in depth is considered excessive and will invalidate any performance assurances. Such potential areas shall receive a light topping of HYPERCRETE prior to waterproofing to ensure run-off. A single ply roofing sheet, THERMOFLEX LITE, should now be laid over the entire area. Tack location is recommended. Clout nails should be located on the leading edge of each sheet +/- 100 mm apart. The trailing edge of each sheet should overlap the tacked leading edge of the next sheet by a minimum of 75 mm. Overlap is therefore loose allowing movement of the one sheet relative to the next. The sheeting, as it is acting merely as a slip-sheet, need not be dressed up the parapets. It is recommended however that a wooding fillet be tacked into place over the sheeting at the parapets. The dimensions of this triangular fillet should be of the order of 50 mm in height, 60 mm base by 80 mm.

NOTE: The fillet must only be attached to the board and not to the parapet

Application

Apply by brush or roller one coat of DARAFLEX PRIMER (60 part water, 40 part product) at the rate of 6m²/L. Allow a minimum of 30 minutes drying at 25o C and 60% R.H.

Apply at the rate of 1m²/L undiluted DARAFLEX and immediately embed the SBP Geo-Fabric into the wet product ensuring no creases or folds in the material. Work the membrane into the DARAFLEX using a brush. Product should be evident "striking through" the membrane and if this is not the case, too little product has been applied. At this point additional DARAFLEX at the rate of 1m²/L should be applied in 100 mm wide strips along the edges of the membrane.

Apply the second run of membrane into the bedding coat in the same manner ensuring an additional coat at 1m²/L between the two layers of membrane at the 100 mm overlap.

After allowing a minimum drying period of 45 minutes at 25o C and 60% R.H. apply a coat of diluted DARAFLEX (90 part product, 10 part water) at the rate of .75L/m². Allow a minimum of 45 minutes drying period and apply a further similarly diluted final coat of DARAFLEX at the rate of .75L/m². It will be noted that a total of 2.5L/m² of DARAFLEX has now been applied. The minimum weight of the membrane alone shall be 100g/m². The total weight per m² shall therefore be:

$$\frac{2.5}{1} \times \frac{55}{100} = 1.375 \text{ Kg/m}^2 + .120 = 1.475\text{kg/m}^2$$

Flashings

It is recommended that the membrane be turned up the parapets 150 mm. A flashing strip of 300 mm (available in pre-cut rolls of 20 m in length) should overlap the turn-up in such a manner that 100 mm of its width be on the horizontal plane and 200 mm on the vertical.

Finish coat

A finishing coat of DARACOAT REFLECT Bitumenous Aluminium Paint, which is highly reflective, is recommended.

Application

REFLECT:

After allowing the final DARAFLEX coating a minimum drying period of one full day at 25° C and 60% R.H. the REFLECT may be applied. The coating should not be applied later than one week of the final DARAFLEX application. Using a paint roller apply REFLECT at the rate of 1L/5m².

NOTE: The product should be well stirred before use and should be stirred periodically during application to ensure a consistent appearance. The product must not be applied under wet conditions, and the drum once open must be protected against moisture. Failure in doing so will result in a dull coppery appearance.

NOTE: REFLECT is a solvent based material and as such is highly flammable in the wet state.

The completed system has a very bright silver appearance, which ensures excellent U.V. protection. Maintenance repaints are recommended at three yearly intervals. Owing to the flexibility differential between REFLECT and DARAFLEX imperfections in the coating may develop. This is not abnormal and generally does not redevelop after the first maintenance coat. The completed system is suitable for occasional light foot traffic only.



The completed system is resistant to rain after a period of 3 hours at 25°C and 60% R.H., however, full resistance develops over a period of days and it is therefore critical that excessive ponding not be anticipated when using this system.

Maintenance

A maintenance re-coat is recommended after three years.

