



Date: 13 December 2021

Re: Point Loading of Maglok Dragonboard Shiplap Joints.

Hi Lester

Thanks for your call regarding the adhesive bonding achieved between the Maglok Dragonboard shiplap joint and the Gorilla Grip 1 Hour Cure Construction Adhesive, (polyurethane based expanding adhesive), when used across 600mm center joists.

When, we tested the Maglok Dragonboard, the most suitable bonding adhesive for these 'shiplap' joint configuration based on the correct application of the adhesive was Gorilla Grip 1 Hour Cure Construction Adhesive. The choice of the Gorilla Grip 1 Hour Cure Construction Adhesive was in part due to that Holdfast Ltd (now Soudal Ltd) had developed the glue system for the Kopine Ultralock for both the "square and T&G" face for 'nog' free joists.

The deflection test data that you provided us with, was well within our maximum deflection limits and exceeded the KPA loadings required in the NZBC when compared to the Kopine Ultralock test results.

The in-house tests carried out have shown no evidence of failure at the shiplap joint with the bond or the strength of the board and with five years of installation and I cannot recall any field calls arising regarding issues from the shiplap joint.

Regards

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