

J-FRAME LVL 10

J-FRAME LVL 8



PROLONGED EXPOSURE TO THE ELEMENTS



J-Frame and Prolonged Exposure to the Elements

During the usual course of construction, your frame is likely to undergo exposure to New Zealand's climate.

Under normal circumstances, this is of no concern, as both the adhesive and preservative treatment used in the manufacture of JNL J-Frame are able to withstand short term exposure without degradation. Independent verification tests by the EWPAA and Scion Efficacy trials attest to this.

Construction doesn't always go to plan, and there may be times where the exposure of your frames to the elements is unavoidably prolonged.

If this has been your experience, we have some information for you.

Structural Bond

J-FRAME Structural LVL uses Phenol Formaldehyde Resin based adhesive to produce a Type "A" bond.

This bond type has a proven, internationally recognised durability record for exposure to moisture and stress.

Australian Standard AS/NZS 2754.1:2016 "Adhesive for Timber and Timber Products" states:

Type A bonded (in this case for J-Frame), laminated veneer lumber [LVL] "can be used in applications involving extreme long-term exposure to weather or wet or damp conditions or long-term structural performance requirements without glue line break-down or glue line creep."

In summary, then, you can have confidence in the structural capacity of your framing, even after extended periods of weathering.

If you have concerns around the bond, please contact us at info@jnl.co.nz or reach out to your JNL Sales Representative.

Preservative Treatment (where H1.2 applies).

Our Boron preservative treatment is carried in a water-based solution, and after prolonged periods of exposure, some leaching or flushing may have occurred.

So what constitutes Prolonged?

It's a common question, and one that's very difficult to answer as the climatic variations for individual sites can be vast.

As Guidance.

One build may have little rain over a 90 day period and be unaffected, and another may experience consistent and heavy rain over a month or two and therefore may require precautionary remedial attention.

If you suspect that your frames have been “flushed”, a general rule of thumb would be to look for “water staining” or flush marks on the studs.

Significant amounts of these signs indicate a probable need for fortifying the preservative treatment as best practise, safeguarding against possible reduced efficacy, an added security of compliance. It is possible to have the adequacy of the preservative treatment in your frame assessed by Laboratory analysis testing. This is a relatively lengthy process and is likely to extend the exposure period further. Testing would only be on the samples provided, and may not be representative of the entire build.

As a precautionary measure, our advice in these instances is to “post-treat” the frames. Post-treatment is achieved by spray or brush-on application, to the preservative chemical manufacturer’s specification, of one of the following approved preservative products.

[Holdfast Metalex Timber Preservative Green Concentrated Data Sheet \(84 KB\)](#)

[Holdfast Metalex Wood Protector Data Sheet \(87 KB\)](#)

[PROTIM FrameSaver \(662 KB\)](#)

[BAX-R Brochure \(812 KB\)](#)

Again, if you have any concerns, please contact JNL, and we will be happy to address your specific case.

In all cases, J-Frame moisture content must be less than 20% before installing internal lining (or lower if required by the wall lining manufacturer).

For measuring moisture content refer to Procedure for Testing Moisture Content of J-Frame LVL – found under the FAQ tab of the Framing page on our website www.jnl.co.nz

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