

FIREFLYBatt Seals Systems Update

FIREFLYBatt Seals Report FAS190234 RIR 1.10

Welcome to the latest edition of our new systems update. In this update, we are pleased to announce our collaboration with NeXTimber® by Timberlink, introducing FIREFLYBatt in NeXTimber®.

NeXTimber® by Timberlink manufactures Australian made Engineered Wood Products (EWP) and provides mass timber building solutions with Cross Laminated Timber (CLT) panels and Glue Laminated Timber (GLT) members. Made from sustainably managed Australian plantation pine, NeXTimber® CLT panels and GLT members offer long term carbon capture and storage like traditional timber but with the strength, uniformity, and technical reliability to support increasingly demanding applications such as hybrid and tall wood buildings.

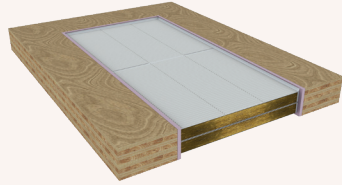
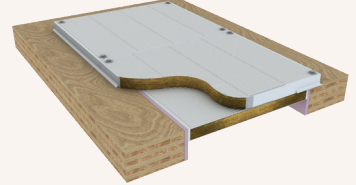
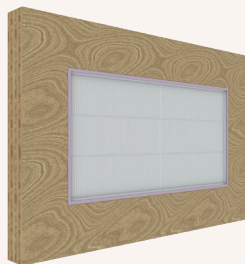
FIREFLYBatt has been successfully integrated into NeXTimber® CLT panels, and the outcome is a game-changer for fire safety in mass timber construction. As mass timber reshapes the future of construction with its eco-friendly and efficient qualities, addressing fire safety is more critical than ever. That is where FIREFLYBatt steps in—sealing gaps, enhancing performance, and helping you build with greater confidence.

Aperture seals | Horizontal and Vertical systems

Openings up to 1200 mm x 600 mm in NeXTimber® CLT floors and walls, whether bare or lined with plasterboard, can now be seamlessly sealed with two layers of FIREFLYBatt. This innovative solution is available in both Friction Fit and Pattress over Friction Fit configurations.

The installation process is straightforward yet highly effective. Begin by lining the aperture with one layer of fire-rated plasterboard. Next, coat the edges of the FIREFLYBatt with FIREFLYMasticBG to achieve a friction fit within the aperture. For the Pattress over friction fit configuration, ensure an overlap of 50 mm on each side of the opening.

By utilising various combinations of beads or fillets of FIREFLYMastic on the top side of floors and each side of walls, you can achieve impressive Fire Resistance Levels (FRLs) of -/60/60, -/90/90 and -/120/120.

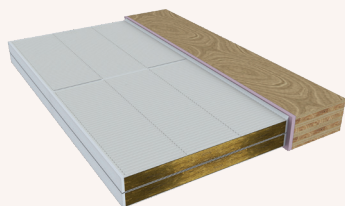
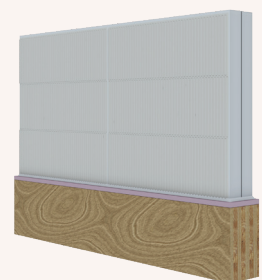
H71 | Up to -/120/120

H73 | Up to -/120/120

V168 | Up to -/120/120

V169 | Up to -/120/120


Linear gap seals | Horizontal and Vertical systems

Experience the functionality of FIREFLYBatt through our innovative linear gap seals. Two layers of FIREFLYBatt can be effectively utilised as horizontal linear gap seals in walls and floors, covering gaps of up to 600 mm with no restriction on length along the NeXTimber® panels. This robust sealing solution ensures that your projects meet the highest standards of fire safety and sustainability.

To create this seal, the opening must be lined, and the FIREFLYBatts staggered by 200 mm. Additionally, FIREFLYMastic is required at the interface of FIREFLYBatt and the substrate. Depending on the desired FRL, the following configurations are available:

- 10 mm beads for an FRL of -/60/60
- 15 mm x 15 mm fillets for an FRL of -/90/90
- 25 mm x 25 mm fillets for an FRL of -/120/120

H72 | Up to -/120/120

V170 | Up to -/120/120


FAS190234 RIR 1.10 | New Systems

ID	Seal type	Local FIREFLY protection	FRL
V168A	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
V168B	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
V168C	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/120/120
V169A	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
V169B	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
V169C	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/120/120
V170A	Horizontal Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
V170B	Horizontal Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
V170C	Horizontal Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/120/120
H71A	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
H71B	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
H71C	Aperture Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/120/120
H72A	Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
H72B	Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
H72C	Linear Gap Seal – Friction Fit	2 x 50mm FIREFLYBatt	-/120/120
H73A	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/60/60
H73B	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/90/90
H73C	Aperture Seal – Pattress over Friction Fit	2 x 50mm FIREFLYBatt	-/120/120

By integrating FIREFLYBatt seals into your project, you can access a multitude of systems for service penetrations. This allows your construction projects to benefit from a broader range of solutions tailored for service penetrations through FIREFLYBatts. For more detailed information on these systems, please consult our report "Services through FIREFLYBatt – FAS190235."

Full system details are also available on FIREFLY PFP. Download it today via our website

<https://tbafirefly.com.au/app/>

To obtain a copy of our FAS190234 or FAS190235 reports reach out to your FIREFLY Account Manager or contact our customer service team at sales@tbafirefly.com.au