

IGNIS ADVISORY NOTE

Evaluation No. IGNS-7258 Issue 01 Revision 04 [2019]

BONDOR BUSHFIRE COMPLIANCE

1 Executive Summary

Ignis Solutions has been engaged by Bondor to undertake a review of the following products for their suitability in wall and roof applications in bushfire prone areas and their compliance with AS 3959:2018 for BAL 12.5 to BAL FZ and thus compliance with NCC Volume One Clauses GP5.1, G5.0, G5.1 and G5.2 and Volume Two Part 3.10.5 and 3.10.5.0.

AS 3959:2018 does not place conditions on the insulation. Requirements are placed on the external most lining material under BAL 12.5 to BAL 40 to be of steel sheeting. Systems complying with BAL FZ are to be tested to AS 1530.8.2 or achieve a Fire Resistance Level of at least (30)/30/30. The review included the following products or systems with external steel skins:

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- BondorPanel
- EconoClad
- Equideck
- Equitilt
- Equitilt Flameguard
- Equitilt Flameguard Plus
- InsulRoof
- InsulWall
- LuxeWall Flameguard
- Luxewall
- Metecno Inspire
- MetecnoPanel
- MetecnoSpan
- SmoothPanel
- SolarSpan

Each of the above systems are considered to comply with the requirements of AS 3959:2018 for the requirements of external cladding and roofing where applicable to BAL 12.5 to BAL 40 as each system has an external steel sheeting.

LuxeWall Flameguard (FRL 90/90/90), Equitilt Flameguard Plus (FRL up to 180/180/180) and MetecnoPanel 200mm (FRL up to -/30/60) achieve an FRL of at least -/30/30 when tested from the outside and are therefore suitable for BAL FZ applications.

2 Fire Safety Measures

BAL 12.5 to BAL 40 | AS 3959 allows external wall cladding for BAL 12.5 to BAL 40 to be non-combustible material or the cladding that is fixed externally to a timber or steel framed wall and is steel sheeting. The above listed external wall cladding and roofing products satisfy this criteria.



BAL FZ | AS 3959 allows external wall cladding for BAL FZ provided the system is non-combustible or complies with AS 1530.8.2 or achieves an FRL of at least 30/30/30 or -/30/30 when tested from the outside. LuxeWall Flameguard (FRL 90/90/90), Equitilt Flameguard Plus (FRL up to 180/180/180) and MetecnoPanel 200mm (FRL up to -/30/60 are considered to satisfy BAL FZ requirements under AS 3959.

Joints | All joints in the external surface material of the wall shall be covered, sealed overlapped, backed or butt-jointed to prevent gaps greater than 3mm.

Junctions All exposed core material is to be encapsulated with a non-combustible material to satisfy BAL requirements.

Vents and weep holes | Vents and weep holes are to be protected as per AS 3959:2018 for the respective BAL zone.

3 Conclusion

The National Construction Code Volume One Clause GP5.1, G5.0, G5.1 and G5.2 and Volume Two Part 3.10.5 and 3.10.5.0 requires that Buildings of Class 1, 2, 3 and associated Class 10 buildings or decks located in designated Bushfire prone areas be constructed in accordance with AS 3959.

The following Bondor products are considered to be consistent and satisfy the requirements of AS 3959 for BAL 12 to BAL 40 for wall and roof applications and are to be installed in accordance with respective product installation instructions provided by Bondor: EconoClad; LuxeWall; Equideck; MetecnoInspire; Equitilt Flameguard; Equitilt Flameguard Plus; Equitilt; MetecnoPanel; MetecnoSpan; InsulRoof; Smooth Panel; InsulWall; SolarSpan; LuxeWall Flameguard and BondorPanel.

The following Bondor products are considered to be consistent and satisfy the requirements of AS 3959 for BAL FZ for wall applications and are to be installed in accordance with respective product installation instructions provided by Bondor. Equitilt Flameguard Plus; MetecnoPanel (200mm); and LuxeWall Flameguard. The above information is based on the following data sheets and their versions:

- EconoClad v7 current 15/02/2019
- LuxeWall v6 current 07/05/2019
- Equideck v45 current 13/05/19
- MetecnoInspire v7current 08/05/2019
- Equitilt Flameguard v47 current 14/12/2018
- Equitilt Flameguard Plus v47 current 14/12/2018
- Equitilt v3 current 13/05/2019
- MetecnoPanel v45 current 24/08/2018
- MetecnoSpan v50 current 13/05/2019
- InsulRoof v12 current 08/05/2019
- Smooth Panel v3 current 04/07/2018
- InsulWall v43 08/10/2018
- SolarSpan v46 13/05/2019
- LuxeWall Flameguard v1 03/10/2018
- BondorPanel v47 13/05/2019



This advisory note can be considered an engineering certificate in accordance with BCA clause A2.2(a)(v) and applicable for use to demonstrate the material/product is fit for purpose with clause A2-1 suitability.

The above Bondor products are considered to be consistent and satisfy the requirements of AS 3959:2018 for BAL 12.5 to BAL FZ areas for wall and roof application and are to be installed in accordance with the respective product installation instructions provided by Bondor. The above information is based on the data sheets listed above, system elements as well as their respected fire test(s).

Benjamin Hughes-Brown FIEAust CPEng NER APEC Engineer IntPE(Aus) CMEngNZ
Chief Executive Officer
Chartered Professional Engineer
CPEng, NER (Fire Safety / Mech) 2590091, RPEQ 11498, BPB-C10-1875, EF-39394
MFireSafety (UWS), BEng (UTS), GradDipBushFire (UWS), DipEngPrac (UTS), DipEng (CIT)