

Product Description

IRON ASH® F17 is the utilisation of F17 Victorian ash produced by Australian Sustainable Hardwoods (ASH) combined with a deep penetrating Water Based Azole Protection. The treatment, produced by Tru-Core®, achieves a H3 Hazard Class suitable for external, above ground use and resistance to termites. The treatment has minimal effect on the appearance of timber and can therefore be used in application where appearance is important.

Scope of Use

IRON ASH® F17 is suitable for use as both structural and non-structural elements in buildings, both internally and in external, above ground (H3) applications. They are to be installed in accordance with AS 1684 – ‘Residential timber-framed construction’. IRON ASH® F17 can be used in conjunction with other building materials to resist decay and termites in a manner that meets the performance requirements of the National Construction Code of Australia (NCC).

Limitations / Disclaimer

IRON ASH® F17 members may not be used in Hazard Class 4, 5 or 6 applications such as In-Ground; within 300mm of the ground; or in contact with sea water.

IRON ASH® should be used with caution in flat, horizontal applications (such as decking boards) unless being maintained with a protective coating in accordance with the IRON ASH® warranty at least every 12 months.

Compliance

ASH’s glue laminated F17 is manufactured in accordance with AS 1328 – ‘Glued-laminated structural timber’

IRON ASH® is treated to the requirements of AS 1604.1:2012 and is tested for penetration and retention by a NATA accredited GLP laboratory to comply with AS/NZS 1605.3:2006 Section 15 – ‘Determination of Tebuconazole and Propiconazole in Preservative-Treated Timber’ and AS/NZS 1605.3:2006 - Section 16 ‘Determination of Permethrin in Timber Extracts’

Building Performance Requirements

When designed, installed, used and maintained in accordance with the requirements within this document, IRON ASH® F17 will provide sufficient decay and termite resistance for the building to meet the National Construction Code (NCC) performance requirements relating to termite actions. i.e. Class 2 to Class 9 Buildings (Volume 1) & Class 1 and Class 10 Buildings (Volume 2) BP1.1 & P2.1 Structural stability and resistance to actions a. A building or structure, during construction and use, with appropriate degrees of reliability, must:

- i. perform adequately under all reasonably expected design actions; and
- ii. withstand extreme or frequently repeated design actions; and
- iii. be designed to sustain local damage, with the structural system as a whole remaining stable and not being damaged to an extent disproportionate to the original local damage; and
- iv. avoid causing damage to other properties,
- v. by resisting the actions to which it may reasonably be expected to be subjected.

b. The actions to be considered to satisfy (a) include but are not limited to: i. (i), (ii), (iii) ... (xiv),(xv) termite actions. Research has shown that a trimmed end, abutting a treated surface, does not adversely affect the termite resistance of the timber. Similarly minor notching, trenching and drilling of holes in IRON ASH®, in accordance with the requirements of AS 1684.2 Clause 6.2.1.4, is considered acceptable but may require a re-coating of a durability treatment or sealant to prevent the timber from decaying.

When used in Class 1 and Class 10 buildings, IRON ASH® F17 shall be installed, used and maintained in accordance with the building practice requirements of AS 1684 – ‘Residential timber-framed construction.’ Class 2-9 buildings should be designed, constructed and maintained in accordance with AS 1720 – ‘Timber Structures’.

To determine fire resistance for structural adequacy of IRON ASH® F17 as an alternative to the tests specified in AS 1530.4, refer to AS 1720.4 – ‘Fire resistance for structural adequacy of timber members’.

For additional information outside the scope of AS 1684 and AS 1720 in relation to installation and maintenance of IRON ASH®, seek advice from the IRON ASH® User Design Guide.

Building Design Requirements

The structural and durability design of buildings using IRON ASH® F17 shall comply with the principles and requirements defined in Australian Standards AS 1720 and AS 1684.

Disclaimer

Australian Sustainable Hardwoods (ASH) advises the requirements are based on industry best practice and current information. They have been provided in good faith for the general guidance of IRON ASH® users. No assurance can be given that ASH's recommendations will be suitable for each and every possible situation outside of the Tru-Core® Wood For Life warranty.

ASH accepts no responsibility for the performance in accordance with these recommendations or otherwise. If in doubt, ASH recommends that all users obtain independent expert advice.