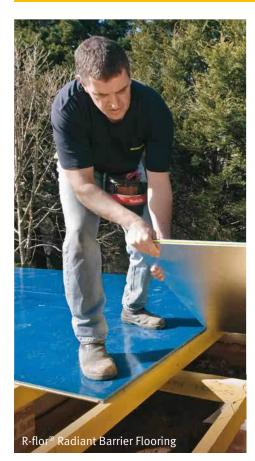








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Residential – first (mid) floor



STRUCTAflor® Particleboard Flooring is the number one choice of the majority of Australian builders – making it the most trusted brand in particleboard flooring with an enviable reputation in the building industry.

Since being introduced to the market over 25 years ago, **STRUCTAFLOr** has continued to be the number one product in its class with proven reliability and durability. Along with its characteristic dark hardwearing surface and edge wax coat, it is easily identified by its distinctive colour coded plastic tongue inserts which denote the YELLOWtongue[®], REDtongue[®] and BLUEtongue[®] brands.

With an extensive range of options, YELLOWtongue, REDtongue and BLUEtongue are ideal for:

- sub-floors
- suspended floors in multi-storey construction
- additions and extensions
- commercial flooring applications



TERMINAT CR

The option of STRUCTAflor H2 Terminator Resistant Particleboard flooring provides a cost effective, long term defence against termite damage.

Australian Plantation Pine

STRUCTAflor, and R-flor particleboard flooring are made using timber grown and harvested from managed, renewable plantation pine.

The most trusted brands in flooring

• Hardwearing Durable Surface

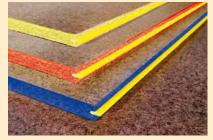
- Weather protection for up
- to 3 months Protoctive film
- Protective film available on R-flor
- Extensive Range

19mm 🖵	YELLOWtongue-450mm max. joist spacing
22mm 🗕	REDtongue-600mm max. joist spacing
25mm -	BLUEtongue – Heavy Duty
19mm, 22mm, 25mm	Square Edge

• STRUCTAflor Terminator & R-flor come with a guarantee from Osmose. Conditions apply. See www.osmose.com.au for details.

• Edge Wax Coat

- No need to seal un-cut edges (as per AS1860.1)
- Reduces moisture ingress
- Easy product identification



STRUCTAflor – Yellow Wax STRUCTAflor Terminator – Red Wax R-flor – Blue Wax

Note: AS1860.2 Particleboard Flooring – Installation recommends that panels be factory sealed against water penetration. Where panels are not factory sealed, and where panels are cut to size on site, the edges should be sealed with adhesive used to bond the panels to the joists.

- Wax Impregnated Throughout
- Reduces moisture ingress
- EWPAA Certified to AS/NZS 1860.1 requirements



Energy Efficiency

R-flor® Radiant **Barrier Flooring**

Traditionally constructed

lightweight timber floors can be designed to adequately resist the transfer of heat through the floor.

R-flor Radiant Barrier Flooring was developed to deliver improvements in thermal comfort and energy efficiency achieved by increasing the overall R-value (thermal resistance) of the flooring system.

R-flor Radiant Barrier Particleboard Flooring:

- Increases overall R-Value of floor system
- Improves thermal comfort
- Reduces energy use
- H2 Termite Protection
- Provides fast & easy installation

YELLOWtongue R-flor Total R-Values				
Cavity (see diagram below)	Floor Covering	Enclosed Sub-floor	Unenclosed Sub-floor	
Blocked (disconnected)	Bare	1.75	1.16	
	Carpeted	2.16	1.57	
Unblocked	Bare	1.36	1.16	
(connected)	Carpeted	1.77	1.57	

Notes:

1. R-Values for heat flow down, standard brick veneer construction. Typical suburban location, floor height 0.5m. hyJOIST[®] 240mm joist. Ground floor area/perimeter: 180m²/72m. Clay soil type.

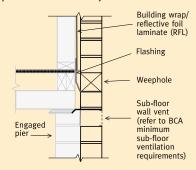
2. R-Values calculated in accordance with the relevant provisions of Australian Standard AS/NZS 4859.1-2002. Materials for the thermal insulation of buildings Part 1: General criteria and technical provisions and the International Standards Organisation standard ISO 13370-2005. Thermal performance of buildings - Heat transfer via the ground - Calculation Methods are used as the methodology for determining the R-Value of suspended floors.

Assumption for carpet: 10mm carpet, 10mm underlay both with a conductivity of 0.05 W/m2K.

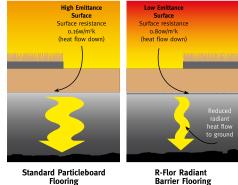
Cavity Detail

Disconnected (Blocked) Cavity

To prevent ventilation between sub-floor space and wall cavity.



How R-flor Works



Standard Particleboard Flooring

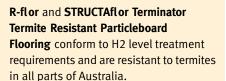
Economical & Versatile

STRUCTAflor and R-flor flooring systems provide cost savings through their economy economy and lighter construction. They reduce foundation costs and reduce construction times since only dry trades are used.

Timber sub-floor and mid-floor systems provide significant advantages including:

- Reduced site impact reduced need for bulk site excavation, earth retaining walls and special drainage
- Easier construction for split level and double storey designs
- Simple, economical installation of central heating, plumbing and electrical wiring
- Greater adaptability to later extensions or alterations
- Underfloor storage space
- Keeping building occupants high & dry
- Flexibility to choose from a variety of floor coverings
- Fast and easy installation

Australian **Termite Risk** Zones





Installing YELLOWtongue

Product Range

Size Coverage	STRUCTAflor		STRUCTAflor Terminator		R-flor	
Size coverage	900x3600mm 3.24m²	600x3600mm 3.24m²	900x3600mm 3.24m²	600x3600mm 2.16m ²	900x3600mm 3.24m²	900x3600mm 3.24m² (BARE)
YELLOWtongue 5 450mm Joist Spacing	~	~	~		~	4
REDtongue 600mm Joist Spacing	~	~	v		~	v
BLUEtongue E Heavy Duty Commercial Flooring		V		~	✔†	√ †

Square edge flooring also available. † 600mm x 3600mm sheet size. BARE = without protective surface film.



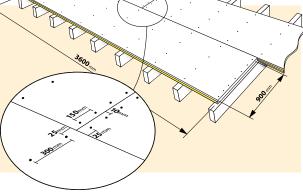
Installation Details

(900mm wide sheet)

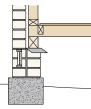
- 300mm centres (maximum) body of sheet
- 150mm centres (maximum) sheet edges
 25mm from T&G edges
- 10mm from square edges

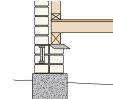
End joints between panels should be staggered.

Refer to the STRUCTAflor Installation Manual for further information.



Installation Methods





Fitted Construction

For installation after walls have been erected.

Available from:

Platform Construction

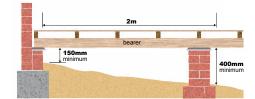
This installation method provides a working platform for wall and roof frame erection and contributes to time and cost savings.

Platform Exposure

The product may be exposed to the weather for up to three months. However, **it is always advisable to enclose the building as soon as possible after laying the floor.**

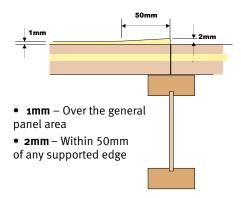
Minor swelling that may result due to prolonged exposure to weathering (resulting from the hygro-expansivity of particleboard) can be removed by sanding following the enclosure of the building. The depth of material removed shall not exceed the following:





BCA Minimum underfloor clearance requirements

The BCA (and AS3660.1: Termite Management) requires a minimum ground clearance of 400mm minimum from ground surface to underside of bearer where termite inspection is required. On sloping sites, 400mm clearance may be reduced to 150mm within 2m of external walls.



AS1860.2 Sanding Provision

Minimum nail size & length combinations

NAILS Nail Type	Joist Type	Flooring Thickness (mm)	Nail Size (mm)
	Hardwood	19.22	50 x 2.80
Hand-	& cypress pine	25	65 x 3.75
driven	Softwood	19.22	65 x 2.80
		25	75 x 3.75
Machine-	Hardwood & cypress pine	19.22	50 x 2.50
driven, D-head,		25	65 x 2.5*
round- head or finished- head	Softwood	19.22	65 x 2.5*
		25	75 x 2.5*

*Available in D-head or round-head only. Tables extracted from AS1860.2

- -- -

Minimum screw size & length combinations

SCREWS Joist Material	Flooring Thickness (mm)	Screw Type & Size	
	19 & 22	No. 10 x 50 mm twin-thread, self-drilling wood screw	
Timber	25	No. 14 x 65mm twin-thread, self drilling wood screw	
Steel	19, 22 & 25	No. 9 or 10 x 45mm countersunk self-imbedding head, self-drilling	
	Fixing to steel & timber I-beam joists NOTE: AS1860.2 recommends that if particleboard flooring is fixed to: • Timber I-beam joists – screws (not nails) should be used. • Steel joists – No.9 or 10 x 45mm screws are recommended		





Mt Gambier Lic No 002, Oberon Lic No 005, Gympie Lic No 006





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