

## Verandah flooring solutions using LYSAGHT FIRMLOK

By combining structural integrity, aesthetic appeal and ease of construction, BLUESCOPE LYSAGHT has developed the Quika-Floor® verandah system—a cost effective and fully engineered steel flooring system.

The system uses LYSAGHT FIRMLOK beams for both in-plane and conventional non-cantilevered verandahs. LYSAGHT FIRMLOK beams are available in a wide range of COLORBOND® colours and sizes.

### Design data

This sheet gives the data required to design or specify a Quika-Floor system for verandah applications. Live loads of 3 kPa have been used to calculate spans. Live point loads must be transferred to the Uni-Piers® and not to the Quika-Floor.

- Dead loads for the design of floor members = 0.5 kPa
- Dead load of sheet roof = 0.4 kPa
- Dead load of tile roof = 0.9 kPa

Wind rating is N3 (W41N permissible, W50N limit state).

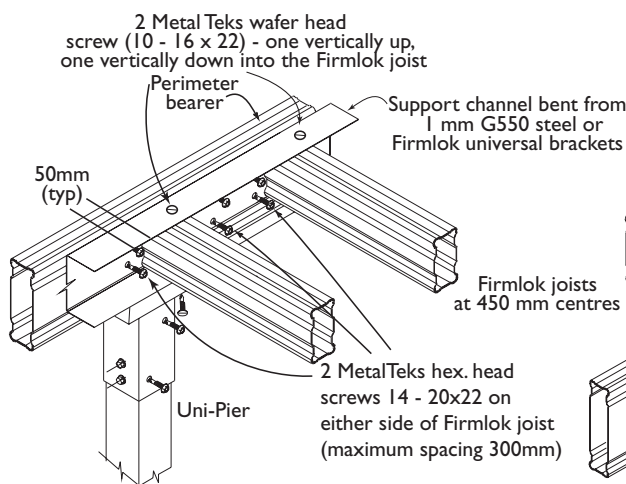
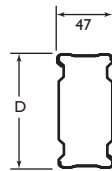
### Connection details

Fixing your floorboards to LYSAGHT FIRMLOK can be readily achieved by either:

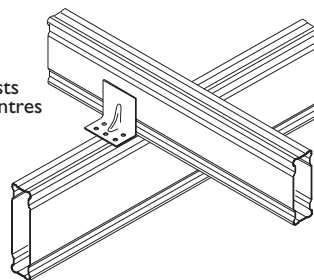
- screw fixing a 50 x 50 mm timber batten to the top of joists and then nailing floor boards to the batten, or
- screw fixing each board directly to the joist.

### Verandah bearers & joists

FL10011ZL	D = 100
FL15015ZL	D = 150
FL20020ZL	D = 200



**Connection of verandah joists to perimeter beams (joists in plane)**



**Connection of verandah joist to intermediate bearers**

### Certification

On behalf of BLUESCOPE LYSAGHT, I certify that this document has been prepared in accordance with the relevant Australian Standards.

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Home Improvements



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## Terminology

### Bearer

A section supported by walls, piers or stumps, which in turn supports floor joists, floors and walls.

### Floor joists

Sections spaced at a maximum of 450 mm, that span over walls or bearers to which flooring is fixed.

### Floor load width

The width of verandah floor supported by each bearer or support.

### Joist spacing

Centre-to-centre distance between floor joists.

### Sheet roof

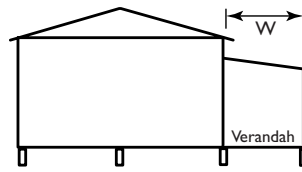
Includes roof clad with continuous sheets of steel, aluminium, fibreglass, polycarbonate or metal tiles.

### Tile roof

Includes roof clad with concrete or terracotta tiles.

### Roof load width

The width of verandah roof supported by each bearer or support.



Roof load width =  $W/2$

### Adverse conditions

If the product is to be used in marine applications, or in severe corrosive industrial environments, please seek advice from our information line

### Metal and timber compatibility

Do not allow this product, or its components, to make long-term contact with lead, copper, bare steel or most green or chemically-treated timbers. Do not allow rainwater runoff from these products to flow over this product or its components. Supporting members should be coated to avoid underside condensation. If you have doubts about the compatibility of other materials, please seek advice from our information line.

## Non-cantilevered verandahs

Wind rating N3 (W50N limit state, W41N permissible)

### Maximum span of FIRMLOK bearers

Section	Roof and floor load width							
	Single span				Continuous span			
	900	1200	1500	1800	900	1200	1500	1800
<b>Supporting sheet roof and 3 kPa floor live loads</b>								
FL 100 11ZL	1380	1255	1165	1095	1545	1405	1305	1030
FL 150 15ZL	2115	1925	1785	1680	2375	2155	2005	1520
FL 200 20ZL	2945	2675	2480	2335	3305	3000	2785	2355
<b>Supporting tile roof and 3 kPa floor live loads</b>								
FL 100 11ZL	1380	1255	1165	1095	1545	1325	1225	940
FL 150 15ZL	2115	1925	1785	1680	2375	1975	1820	1385
FL 200 20ZL	2945	2675	2480	2335	3305	3000	2785	2150
<b>Supporting 3kPa floor live loads only</b>								
FL 100 11ZL	1380	1255	1165	1095	1545	1405	1350	1115
FL 150 15ZL	2115	1925	1785	1680	2375	2160	2005	1655
FL 200 20ZL	2945	2675	2480	2335	3305	3000	2785	2545

### Maximum span of FIRMLOK joists at 450 mm maximum centres

Supporting 3kPa floor live loads only

	Single span	Continuous span
FL 100 11ZL	1650	1850
FL 150 15ZL	2535	2845
FL 200 20ZL	3520	3950



**BLUESCOPE  
LYSAGHT**

Information, brochures and  
your local distributor

**1800 641 417**

Please check the latest information  
which is always available at  
[www.lysaght.com](http://www.lysaght.com)

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