

DURABILITY PRODUCT SELECTION

ALTERNATIVE SOLUTION TO TABLE 4.1

NZS 3604:2011

Zones	Fixings	Environment	Product Option
All Zones	Nail plates and timber connectors All other structural fixings	Closed	GANG-NAIL and LUMBERLOK Standard Zinc Coated Product ⁽¹⁾ BOWMAC Hot Dip Galvanised ⁽³⁾
Zone D	Structural fixings	Sheltered and Exposed	LUMBERLOK Stainless Steel 304 ⁽²⁾ BOWMAC Stainless Steel 304 ⁽²⁾
Zones B and C	Timber pile fixings MORE than 600mm from ground	Sheltered Subfloors vented 7000mm ² /m ² or less	LUMBERLOK Hot Dip Galvanised ⁽⁴⁾ BOWMAC Hot Dip Galvanised ⁽³⁾
		Exposed Subfloors vented 7000mm ² /m ² or more	LUMBERLOK Stainless Steel 304 ⁽²⁾ BOWMAC Hot Dip Galvanised ⁽³⁾
	Timber pile fixings LESS than 600mm from ground	Sheltered and Exposed	LUMBERLOK Stainless Steel 304 ⁽²⁾
	All other structural fixings	Sheltered	LUMBERLOK Hot Dip Galvanised ⁽⁴⁾ BOWMAC Hot Dip Galvanised ⁽³⁾
		Exposed	LUMBERLOK Stainless Steel 304 ⁽²⁾ BOWMAC Hot Dip Galvanised ⁽³⁾

1. All GANG-NAIL®, LUMBERLOK® and BOWMAC® product complies with Table 4.2 NZS 3604:2011.
2. LUMBERLOK and BOWMAC Stainless Steel product is 304 grade. Regular washing and maintenance will positively affect long term appearance of these items.
3. BOWMAC Hot Dip Galvanised product is to AS/NZS 4680 to 600g/m². Treated timber should have 2 - 3 weeks curing time to allow chemical preservatives to be "fixed" and for moisture content to be 20% or less. Apply grease to bolts for additional protection.
4. LUMBERLOK Hot Dip Galvanised product is to AS/NZS 4680 to 390g/m²

NOTES

Items above refer to GANG-NAIL®, LUMBERLOK® and BOWMAC® product marketed for specific applications with a requirement to last 50 years as an alternative solution to Table 4.1 NZS 3604:2011.

The MiTek New Zealand Limited Durability Flow Chart for product selection is derived from this alternative solution to Table 4.1 NZS 3604:2011. Definitions of zones and environments are derived from NZS 3604:2011.

Supporting documents available for this alternative solution:-

Les Boulton and Associates. Materials and Corrosion Consultants Report 00330: Evaluation of Bracket Durability; NZS 3604, Report 01372: Corrosion of BOWMAC Fixings in Treated Timber and Report 181217: Durability Appraisal of BOWMAC Structural Brackets

Optimech Services Metallurgical Consultancy Test Certificate Reports No: 00-134 BOWMAC and No: 01-023

LUMBERLOK Determination of Galvanising Coating thickness.

Product Statements for LUMBERLOK and BOWMAC products.

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