

# DURABILITY PRODUCT SELECTION

## ALTERNATIVE SOLUTION TO TABLE 4.1

### NZS 3604:2011

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

- All GANG-NAIL, LUMBERLOK and BOWMAC product complies with Table 4.2 NZS 3604:2011.
- LUMBERLOK and BOWMAC Stainless Steel product is 304 grade. Regular washing and maintenance will positively affect long term appearance of these items.
- BOWMAC Hot Dip Galvanised product is to AS/NZS 4680 to 600g/m<sup>2</sup>
- LUMBERLOK Hot Dip Galvanised product is to AS/NZS 4680 to 390g/m<sup>2</sup>

#### NOTES

Items above refer to GANG-NAIL<sup>®</sup>, LUMBERLOK<sup>®</sup> and BOWMAC<sup>®</sup> 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 3604:1999 and Report 01372: Corrosion of BOWMAC Fixings in Treated Timber.

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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