

Flood Compatible Materials Guide

For Construction Certificate Applications

In order to ensure that structures which are located on flood prone land are structurally compatible with flood water during and after a 100yr Average Recurrence Interval (ARI) Flood Events, Council specifies a list of materials which are less likely to be prone to water damage.

The list below is not exhaustive and materials that are listed (which may be only mildly affected by immersion) may be eligible for use if Council deems them to be adequate.

Key components	Suitable materials/construction	Unsuitable materials/construction		
Roof	 Timber trusses with galvanised connections Reinforced concrete Galvanised metal 	 Traditional timber roof frame construction Inaccessible flat roofs Non-galvanised structural steelwork or connections Unsecured roof tiles 		
Bolts, nails, hinges and fittings	 Brass Nylon Stainless steel Galvanised steel Hinges with removable pins 	Mild steel		
Windows	Aluminium frames with stainless steel or brass rollers	Timber with PVA gluesMild steel fittings		
Walls	 Concrete walls Cavity brick walls Galvanised steel frames Stainless steel frames Aluminium frames Timber frames in areas not subject to forces from fast flowing water Bracing of galvanised steel or marine grade plywood 	Timber frames in areas that are subject to forces from fast flowing water		
Floor, sub-floor structure	 Reinforced concrete slab Suspended timber floor Masonry walls Marine grade plywood Galvanised steel piers/columns Masonry piers/columns 	 Foundation must not be prone to failure due to erosion (located on fill) Particle board flooring Standard grade plywood Engineered timbered products (unless certified by the manufacturer as being resistant to the effects of repeated immersion for periods in excess of one week) 		

Flood Compatible Material Submission List for Construction Certificate Application

The 100yr ARI Flood Level which affects this structure is	:
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RLm AHD

Please find a list of all Structural Building Materials to be used in the development below the 100yr ARI Flood Level.

Key Components	Lowest level of component (AHD) *	Is this component affected? *			List of materials to be used #
Roof	RL m	☐ Yes	□ No	1	
				2	
				3	
				4	
Bolts, nails,	RL m	□ Yes	□ No	1	
hinges and fittings	-			2	
				3	
				4	
Windows	RL m	□ Yes	□ No	1	
				2	
				3	
				4	
Load bearing walls	RL m	☐ Yes	□ No	1	
				2	
				3	
				4	
Floor, sub-floor structure	RL m	☐ Yes	□ No	1	
]		2	
				3	
				4	

^{*} Fill out columns for all components # Fill out only if affected



This document contains important information. If you do not understand it, contact the Telephone Interpreter Service on 131 450.



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