

Resene Equivalent to SNZ TS 3404:2018

Table 2 – Surface-Specific Atmospheric Corrosivity Categories

Reference Material SNZ TS 3404:2018

Macroclimate corrosion category (from AS/NZS2312.1: 2014)	Typically	Location	Characterised by	Surface-specific Atmospheric corrosivity				
				External			Internal	
				Exposed	Sheltered	Wet	Dry	Damp
C5-M	Within 200 metres of breaking surf on the West and South coasts of the South Island. Within 100 metres of breaking surf on the West and south coasts of the North Island. This environment may be extended inland by prevailing winds and local conditions.	All Coasts	Heavy salt deposits almost constant smell of salt sea spray in the air.	C5-M			C1	C4
C4	Within 500 metres inland of breaking surf. Within 50 metres of calm saltwater such as harbour foreshores. This environment may be extended inland by prevailing winds and local conditions.	All Coasts	Medium salt deposits Frequent smell of salt sea spray in the air.	C4	C5-M			C3
C3	Within 20km of Breaking surf.	West and South coasts of the South Island.	Minor salt deposits Occasional smell of salt in the air.	C3	C5-M		C1	C3
	Within 5km Saltwater.	East coast of both Islands, West and South coasts of the North Island, and all harbours			C4	C5M		

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				External			Internal	
				Exposed	Sheltered	Wet	Dry	Damp
C2	More than 20km to 50km from saltwater.	West and South coasts of the South Island.	No Marine influence	C2	C3	C4	C1	C3
	More than 5km to 50km from saltwater.	East coast of both Islands, West and South coasts of the North Island, and all harbours.		C2	C3	C4		
C2	Inland, more than 50km from saltwater.	North and South Islands.		C2	C3			
See note 3	Close to geothermal source <500 metres	Geothermal zone	Constant smell of hydrogen sulphide	See note 3			C4	
-	Beyond 500 metres to geothermal source		Mild geothermal influence				C3	
<p>NOTE –</p> <p>(1) The atmospheric corrosivity categories given provide an indication of environment corrosivity to assist in the selection of a suitable corrosion protection system; taking into account the macroclimate and where required microclimate effects.</p> <p>(2) For confirmation of a site-specific atmospheric corrosivity category (for example, for sites that are sheltered from marine influence by the local topography), then site-specific testing is required as described in HERA Report R4-133.</p> <p>(3) For areas in the geothermal zones, both the macroclimate and the surface-specific corrosivity categories are dependent on the level of geothermal activities and distance from the geothermal source. The Corrosivity category could range up to CX with considerable variation; thus, in those areas site-specific corrosivity assessment is recommended.</p> <p>For Areas that are more than 500 metres beyond the geothermal source or boundary (such as Sulphur Bay, Rotorua), and that have been assessed using the smell test as having minimal or non-existent geothermal influence, the other corrosion zones or categories apply based on distance from the sea.</p>								