

TABLE 3

BUILDING IMPORTANCE LEVEL	
Importance Level	Description
IL 2	Typical structures such as single residential dwellings, car parks, and excluding structures otherwise referenced in IL 2 and IL 4
IL 3	Structures which are not designated as post-disaster, where people may gather in crowds or high community value structures such as schools & day care facilities, health care facilities [with no surgery or emergency treatment facilities], airports, principal railway terminals, Correctional Institutions, Multi-unit residential/commercial/office/retail buildings accommodating >5000 people and with a floor area >10,000 square metres or public assembly buildings with floor area >1000 square metres. Also medium size theatres and cinemas, or buildings which could pose risks to people in crowds, as well as emergency, power generating or public utility buildings not specified as post-disaster and buildings and facilities containing hazardous materials
IL4 Specific Engineering Design Required	Structures with special post-disaster functions or designated as essential facilities. Here are some examples: Emergency Services facilities as such as Fire, Police and Medical [emergency or surgical], Emergency Shelters, emergency vehicle garages, Buildings containing hazardous material capable of causing great harm to the environment and people.

NOTE: For more detailed description refer to AS/NZS 1170 or seek structural engineering advice or contact SRP™

TABLE 4

TERRAIN CATEGORY	
Terrain Category	Description
TC 2	Open terrain, with well-scattered [1.5m to 5m high] obstructions with no more than two obstructions per hectare such as grassland, farmland, newly established or under construction subdivisions, and airfields, water surfaces.
TC 3	Terrain with numerous closely spaced [3 m to 10 m high] obstructions, with a minimum of the equivalent of 10 residential- sized obstructions per hectare. Example: suburban areas, small industrial areas, well established subdivisions.
TC 4	Terrain with numerous closely spaced large, 10 m to 30 m tall and beyond structures. Example: Large city centres, and large, well developed industrial areas.

NOTE: For more detailed description refer to AS/NZS 1170 or seek structural engineering advice or contact SRP™

TABLE 5

WIND ZONES [WZ] WITH THE WIND SPEED RANGE [WS] [M/S]								
Importance Level	Terrain Category		TC 4		TC 3		TC 2	
	Wind Region		A	W	A	W	A	W
	Reference Height Ht [m]							
IL 2	3 - 8 incl.		Medium WZ WS [32<Vr<37]		High WZ WS [37<Vr<44]		Very High WZ WS [44<Vr<50]	
	9 - 12 incl.						Extra High WZ WS [50<Vr<55]	
	13 - 15 incl.				Very High WZ WS [44<Vr<50]		Extra High WZ WS [50<Vr<55]	
	16 - 19 incl.						Extra High WZ WS [50<Vr<55]	
	20						[SED]	
IL 3	3 - 8 incl.		Medium WZ WS [32<Vr<37]		High WZ WS [37<Vr<44]		Very High WZ WS [44<Vr<50]	
	9 - 12 incl.						Extra High WZ WS [50<Vr<55]	
	13 - 15 incl.				Very High WZ WS [44<Vr<50]		Extra High WZ WS [50<Vr<55]	
	16 - 19 incl.						Extra High WZ WS [50<Vr<55]	
	20						[SED]	

SRP™ STUD HEIGHT TABLES

WIND ZONES	WIND SPEED [M/S]
Low	[Vr<32]
Medium	[32<Vr<37]
High	[37<Vr<44]
Very High	[44<Vr<50]
Extra High	[50<Vr<55]

Specific Engineering Design required for Vr>55 m/s

DESIGN INFORMATION

SLS deflection limit under $W_s \Rightarrow L$ / Plasterboard walls under $W_s - 1170.0$ table C1	200
Soft body deflection limit [1170.0 table C1] - L/	200
DS	0.7
SLS point load [kN]	0.7
Soft body deflection limit under SLS point load [mm]	12
Wind Zone - Vr - see table	Low

CPI - INTERNAL PRESSURE COEFFICIENT

AS/NZS 1170.2 SECTION 5.3

CPI = 0.20 Fully sealed, no openings

CPI = 0.30 Equal openings on all sides

CPI = 0.60 Openings on one side only

CPI = 0.80 A dominant opening. e.g., large roller door