



## WATERPROOF PROTECTIVE BOARDS THERMAL EXPANSION

**Allowances within the structure for thermal movement are recommended as follows:**

All plastics are susceptible to thermal expansion and contraction associated with temperature change. Allowances for thermal movement should be incorporated into the design and construction of structures when using Manticore to prevent warping and buckling.

**The below table assumes the following:**

- Service temperature range of -10°C to +35°C
- Thermal expansion and contraction up to 2.0mm / 1m / 10°C
- Product is conditioned to ambient temperature prior to installation

Allowances within the structure for thermal movement are recommended as follows:

Ambient Temp °C	Potential for Expansion per 1m	Potential for Contraction per 1m
-10	+9mm	0mm
-5	+8mm	-1mm
0	+7mm	-2mm
5	+6mm	-3mm
10	+5mm	-4mm
15	+4mm	-5mm
20	+3mm	-6mm
25	+2mm	-7mm
30	+1mm	-8mm
35	0mm	-9mm
-10	+9mm	0mm

