

TECHNICAL BULLETIN

SUBJECT: Welded Deck During Ambient Temperature Changes

SERIES #: 101

DATE: 12/12/11

A common sales pitch against the welded deck system is that it is susceptible to cracking during ambient temperature change. This sales pitch is completely inaccurate.

The filler material used when welding the tread planks together has very similar expansion properties to the actual planks themselves. As such, significant differential expansion is not experienced by a welded deck panel. The full, welded panel will expand and contract, at the same rate as any aluminum extrusion. However, measurable differential expansion between the planks within the panel does not occur.

Dant Clayton's welded deck panels are manufactured in a factory environment with robotically controlled welded deck machines. Each panel is carefully inspected to ensure that all welds are solid and continuous.

Dant Clayton has been producing welded deck panels for over 20 years without experiencing any temperature cracking. These panels have been provided for several hundred stadiums, including installations in areas with high temperature variations, such as the northern US and Canada.