

All **ecodek®** decking products have been load tested in accordance with 'BS EN 1195:1998 *Timber structures – Test methods – Performance of structural floor decking*'.

Table 1 shows point loads against spans to ensure you can choose the right product (either **ecodek® AT** or **Classic\*** or **ecodek® HD**) for your project and also the correct bearer spacing to ensure you comply with 'BS EN 1991-1-1:2002 *Actions on structures - Imposed loads for buildings*'.

**Table 1. ecodek® AT or Classic\* and ecodek® HD point loads tested at different spans.**

	ecodek® AT or Classic*				ecodek® HD			
SPAN (mm)	300	350	405	455	405	455	500	600
<b>Max point load (kN)</b>	<b>3.5</b>	<b>2.8</b>	<b>2.4</b>	<b>2.0</b>	<b>4.5</b>	<b>3.6</b>	<b>3.0</b>	<b>2.4</b>

Table 2 below shows an excerpt from BS EN 1991 that demonstrates what point loads the flooring media should be able to support. These loads are **mid-span live** loads. **Dead** loads should be supported in a different manner whereby the load is spread over the support beams to ensure long term board deflection is prevented. If in doubt, please contact our technical department for further information/guidance. \*Classic is the original **ecodek®** 25mm decking board which is being phased out and replaced with the lighter, thinner **ecodek® AT**.

**Table 2. Point loads requirements for different flooring media (BS EN 1991-1-1:2002).**

BS EN 1991-1-1:2002 <i>Actions on structures - Imposed loads for buildings</i>	Point Load kN (mid-span)
Balconies	2.0
Walkways – Light duty	2.0
General residential	2.0
Offices for general use	2.7
Public, institutional and communal dining rooms and lounges, cafes and restaurants	3.0
Classrooms	3.0
Assembly areas with fixed seating	3.6
Walkways – General duty	3.6
Assembly areas without seating, concert halls and bars	3.6
Shopping areas – General	3.6
Stairs & landings in all buildings inc hotels & institutional buildings subject to crowds	4.0
Corridors, hallways, aisles, in all buildings inc hotels & institutional buildings subject to crowds or wheeled vehicles inc trolleys	4.5
Walkways heavy duty (high density pedestrian traffic including escape routes)	4.5
Stages in public assembly areas	4.5

It is also important to ensure you design your substructure to comply with the uniformly distributed load (UDL) values (commonly expressed in kN/m<sup>2</sup>), which are also expressed in BS EN 1991