

case study

Castor wheel test produces outstanding results

Products tested: **Adore LVT (square edge)** on **InstaLay 30hg acoustic underlay**

Independent UKAS accredited testing facility: **BTTG Testing & Certification Ltd**

Exceptional results were achieved following castor wheel testing carried out on square edge 'Adore' Luxury Vinyl Tiles (LVT) installed over InstaLay 30hg Peel & Stick acoustic underlay.

The flooring sample was prepared using a double-stick installation method and was then subjected to 25,000 continuous castor wheel revolutions, with the wheel direction being reversed every three minutes during a rigorous 16 hour test. The wheels were loaded to 90kgs (approx. 14 stones), in order to simulate human weight and provide aggressive test conditions.



Castor wheel configuration

Results demonstrated that:

- The InstaLay 30hg (3mm high grab) was extremely robust and resilient and was easily able to bond the square edge LVT firmly without any signs of delamination.
- At the end of the test the LVT joints remained tight and intact, with no signs of damage to the LVT edges.
- Indentations on the surface of the LVT, caused by the continuous castor wheel compression, recovered quickly and after two weeks had virtually disappeared.



Castor wheel test in progress

The test proved that InstaLay is suitable for use beneath LVTs, where an acoustic, anti-fatigue floor finish is required. InstaLay 30hg is able to bond the flooring and support the LVT joints, even under the most demanding conditions. Despite this very positive result, it is still always recommended that a protection mat be used under castor wheels in order to protect the floor finish throughout its useful life.

InstaLay self-adhesive underlay provides significant LVT bond strength, delivers superb underfoot comfort, reduces sub-floor preparation times and does not collapse over time, even in high traffic areas.

CS50



IL30hg with Adore LVT before testing



IL30hg with Adore LVT two weeks after testing