

# case study

## Impressive results from castor wheel test

Product tested: **Bolon 3.4mm woven vinyl flooring (tiles) on InstaLay 30hg acoustic underlay**

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

Outstanding results were achieved following castor wheel testing carried out on 'Bolon' woven vinyl flooring installed over InstaLay 30hg self-adhesive acoustic underlay.

The flooring sample was prepared and then subjected to 25,000 continuous castor wheel revolutions, with a one hour rest after every 1,000 revolutions. The wheel direction was reversed every three minutes and the castors were loaded to 90kgs (approx. 14 stones), in order to simulate human weight and provide aggressive test conditions.

Results demonstrated that:

- The InstaLay 30hg (3mm high grab) was extremely robust and resilient and was able to easily and firmly bond the woven vinyl flooring without any signs of delamination.
- At the end of the test the joints of the woven vinyl flooring remained tight and intact, with no signs of them raising or gapping.
- The woven vinyl flooring remained fully intact and completely undamaged.

The test proved that InstaLay is suitable for use beneath woven vinyl flooring, where an acoustic, anti-fatigue floor finish is required. InstaLay 30hg is able to bond the flooring and support the joints of the woven vinyl flooring, even under these most demanding conditions.

Despite this very positive result, it is still recommended that a protection mat always be used under castor wheels to protect the floor finish throughout its useful life.

InstaLay self-adhesive underlay provides significant bond strength to the woven vinyl flooring, which enhances the joints and does not collapse over time, even in high traffic areas. With its rubber crumb composition it also reduces sub-floor preparation times, while its anti-fatigue characteristics deliver superb underfoot comfort.



Castor wheel configuration



Bolon tile before the test (above) and after (below)



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