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**Agrément Certificate****07/4446 (ES2)****ENHANCED SECURITY TO PAS 24 FOR PRODUCT SHEET 2****NORDAN FA AND TL FIXED WINDOWS**

This Enhanced Security sheet is not valid in isolation and must be read in conjunction with Product Sheet 2 of this Certificate. The information in this sheet supplements the details given in Product Sheet 2, section 9 *Unauthorised access*.

- *The details in this sheet are only relevant to windows fabricated by NorDan UK Ltd and meeting the specification defined in section 2 Scope of approval.*
- *It is essential that the windows are installed in accordance with the recommendations contained in Product Sheet 2 and in the manufacturer's instructions to achieve the standard of enhanced security defined in this sheet.*

**1 General**

Selected windows from the NorDan FA and TL Fixed Windows covered by Product Sheet 2 were tested in accordance with PAS 24 : 2016, Annex C *Specification for enhanced security performance of windows* and met the requirements.

2 Scope of approval

2.1 The specification for the windows considered to offer enhanced security comprises windows all fabricated from components as shown in Figure 1, and in accordance with the recommendations contained in the Certificate holder's reference manual.

2.2 The scope of the test programme does not cover glass breakage as a means of entry. In locations where this is considered to be a significant risk, the use of laminated glass or other suitable glazing material may be necessary or required by Secured by Design (Sbd) Schemes.

3 Design features

Externally fitted aluminium glazing beds can be removed by manipulation but the subsequent removal of the glass without breakage and noise is extremely difficult due to the glazing being additionally secured by polyurethane adhesive sealant.

4 Design considerations

4.1 Only the specification of windows referred to in Figure 1 can be considered to meet the requirements. Any design variations to the frame profiles, glazing blocks, glazing bead clips or associated fasteners will require the window to be retested.

4.2 To ensure the level of resistance to intrusion indicated by the tests is achieved, installation must be carried out in accordance with the recommendations contained in Product Sheet 2 and the Certificate holder's instructions. For example, correct glass packing and fixing of the window into the opening are critical.

4.3 Windows assessed for enhanced security are designed to resist attempts to forced entry by the opportunist intruder using basic hand tools. However, the scope of assessment does not extend to an assurance of absolute security. In addition, window security must be considered in the context of the overall security of the building, taking into account such factors as vulnerability of individual windows and the security of doors.

The BBA has awarded this Certificate for Enhanced Security to PAS 24 : 2016 to the company named above for the window systems described herein provided they are installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of Fourth issue: 8 June 2020

Hardy Giesler
Chief Executive Officer

Originally certificated on 18 June 2007

*The BBA is a UKAS accredited certification body – Number 113.**The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbcerts.co.uk Readers MUST check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA directly.**Any photographs are for illustrative purposes only, do not constitute advice and should not be relied upon.*



Figure 1 Typical vertical section of an FA Fixed Window

