

The Sikkens Sentinel Plus[®] 30 Year Coating System Guarantee ACCOYA[™] JOINERY AND CLADDING



The Sentinel Plus[®] Wood Protection Programme aims to achieve a more managed sustainable construction by further extending the life cycle of timber components through the specification of high performance coating systems, thereby reducing the through life cost of maintenance. The Sikkens joinery range of factory applied coating systems are now available with a **30 YEAR COATING SYSTEM GUARANTEE**. The guarantee is designed to cover **embrittlement, flaking or cracking** of the coating system due to a coating manufacturing fault.

The requirements are as follows:

All Windows and Doors are to be designed to meet the requirements of BS EN 942: 1996 and BS 644: 2003 incorporating the following features:

TIMBER SELECTION

- The timber is to be Acetylated wood referred to as Accoya[™].
- The moisture content of the timber following completion of the Acetylation process is to be in the region of 5 to 7%.

JOINERY DESIGN

- All exposed edges are to be rounded to a minimum 1.5mm; a 3mm rounding should be achieved where practicable.
- All fixings to be of Stainless Steel.
- All furniture and fittings to be of non-ferrous metal.

Notes regarding Cladding Manufacture

- All cladding profiles to follow the recommendations made for a full range of design options visit www.accoya.co.uk
- To accommodate timber wall cladding the cill protection should be extended to a maximum protrusion of 175mm. All other design criteria to remain the same.

Notes regarding Door Manufacture

- The use of an internally glazed system is strongly advised.
- A minimum slope of 1:8 must be incorporated within the design to the top of any external glazing upstand.

Notes regarding Window Manufacture

- The protruding timber sill section should have a maximum protrusion of 175mm from the frame itself, and have an even continual slope away from the bottom of the frame of not less than 1:8. A capillary groove should be included within the design of the underside of the sill, the minimum width and depth of the groove should be 6mm, and should be positioned a minimum of 12 mm from the front edge. The front edge of the sill must be finished with a minimum 3mm rounding and a minimum finished thickness of 25mm.
- It has to be recognised that this new industry standard of a 30 year coating system guarantee can only be achieved if the window is fitted set back into the opening, this will ensure that the coated protruding sill section is protected from the elements.
- At the Building Design stage, it is very important to ensure that the complete underside of the protruding sill is accessible for maintenance.

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FULL FACTORY APPLIED COATING SYSTEM

- The Sikkens fully factory finished coating system must be applied in strict accordance with the requirements of Akzo Nobel Specialist Coatings, to achieve a minimum dry film thickness of 120 micrometres on all exposed and concealed surfaces including all end grains.
- Sikkens **Kodrin WV 456** End Grain Sealer and **Kodrin WV 470 'V'** Joint Sealer (doors and windows only) must be applied with all coating systems following base stain/primer application.
- To enable the joinery team of Akzo Nobel Specialist Coatings Division to fulfil their customer service commitment, periodic visits will be made to the Joinery Manufacturers premises to inspect and advise on all aspects of coating application, drying and storage.

FACTORY GLAZING

- Windows and Doors must be glazed in accordance with Section 4.2 of the Glass & Glazing Federation manual to meet the requirements of BS. 6262, and BS 644: 2003, Annex B.
- Latest glazing developments and systems should be discussed with the supplying Joinery Manufacturer.

INSTALLATION

- All joinery is to be installed and soundly fixed in accordance with the manufacturers instructions, avoiding any damage to the door/frame and its coating system. Additional information can be found in BS 644:2003, Annex B.

FINAL INSPECTION

- All joinery items are to be inspected by either the client's representative or the joinery manufacturer to ensure complete compliance and satisfaction, and that all coatings are undamaged at time of handover prior to the completion of the Sentinel Plus® Guarantee Document.
- If the coating film has been damaged it is essential that the coating system is made good prior to handover, in accordance with instructions which can be obtained from

Note:

The information contained within this document is correct at the time of print.

This document is covered by the Akzo Nobel Decorative Coatings confidentiality agreement, a copy of which is available from Akzo Nobel Specialist Coatings Joinery Division, Meadow Lane, St. Ives, Cambridgeshire. PE27 4UY, United Kingdom.

Akzo Nobel Specialist Coatings Joinery Division, Meadow Lane, St. Ives, Cambridgeshire. PE27 4UY, United Kingdom. Tel. 01480 484239. Fax. 01480 460083. www.sikkens.co.uk

REQUIRED PROGRAMMED MAINTENANCE

- Following the assessment of the property in accordance with the advice given in BS EN 927: 1997, Part 1 on exposure hazard, a planned maintenance programme must be applied in strict accordance with the requirements of the Sikkens Sentinel Plus® support programme. It is the responsibility of the property owner or his representative to ensure that correct maintenance is carried out at the appropriate time.

IMPORTANT NOTE

- To comply with the requirements of the Sikkens Sentinel Plus® guarantee It is the responsibility of the Joinery Manufacturer to ensure that the Sentinel Plus® guarantee registration document is completed and returned within 28 days of handover to: Akzo Nobel Specialist Coatings Joinery Division. Meadow Lane, St. Ives. Cambridgeshire. PE27 4UY, United Kingdom.

GENERAL ADVICE

HANDLING

- Care must be taken to avoid any handling/transit/storage damage, we strongly advise the use of protective wrapping on all joinery items/trim; this is to remain undamaged until fixing.

SITE STORAGE

- All components must be stored under cover, preferably inside a ventilated building. In the event of outside storage, they must be kept clear of the ground on level bearers and protected against dampness and direct sunlight by a tarpaulin or suitable protective cover. There must be space for air circulation around and between the components.

Akzo Nobel Specialist Coatings

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