

# High Performance Tilt&Turn Windows



**SKAALA**<sup>®</sup>



**Windows**

SKAALA

# Skaala T&T windows are safe and easy to use.



## Functional perfectness.

*Skaala T&T windows exceedingly fulfil all the demands that the shifting European climate makes on a window. Besides weather resistant, they are energy saving and safe.*

*Skaala windows have been developed in accordance with the principles that Skaala has followed from the very beginning. This includes the use of first class materials, full architectural freedom, perfect tightness, optimum safety and, above all, that the products are easy to use.*

## Skaala T&T window - The easiest to use.

*The inward opening Skaala T&T window represents a new line of easiness and safety. Using only one handle you can choose all the three functions you need: 1) Tilt position, 2) Closed position and 3) Turn position.*

*The firm structure of three layer laminated Nordic pine prevents twisting and offers accurate dimensions. Together with top class fitting system, it qualifies even in big windows, in all surroundings, year after year. Every window has been precisely adjusted at the factory. The one handle system leaves also more space for the elegant wood surface.*



## One handle - All operations. Simple.

### 1. Tilt position

*In the first stage, the window opens in a ventilation position, a maximum of about 100 mm at the top. The stale air rises up and streams out through the top and fresh air flows in through the sides. The airflow feels nice and even in every situation, so on a windy day there is no need to remove the window ornaments, curtains, flowers or papers placed on the window sill.*

### 2. Closed position

*The closed position includes two important elements:*

**A.** *Skaala windows are exceptionally weatherproof (See test results on back-page). The solid timber and the top class fitting system keep the construction firm and tight. The tightness is secured with two strong weather-seals, which also improves sound insulation. The rebated sash leaves no cracks on the exposed surfaces.*

**B.** *The window is equipped with standard multi-point-locking fittings and is thus well protected against housebreaking. The hinges are secured with screws and plugs in the wooden parts. There are from 2 to 6 locking points on the frame, depending on the size of the window. The glazing beads are nailed from the inside which makes it impossible to remove the glass from outside without breaking it.*

### 3. Turn position

*In the turn position, the glass can be cleaned on both sides from the inside the building without dangerous stretching or climbing. It is so easy to open the window that you can forget all the difficult opening procedures. This makes it easy, eg in case of fire, to use the Skaala T&T windows as emergency exits.*



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# Skaala windows – tailored to suit every house.

The Skaala T&T windows are always tailor-made, not only for new houses but also for old buildings in need of restoration. For your windows you can choose any dimensions, forms or colours.



T&T, viewed from inside



T&T, viewed from outside



Fixed light, viewed from outside

## 1. Timber and structure

The three layer laminated Nordic pine ensures that the window remains strong, stable and durable. There is no plugging on the exposed surfaces.

## 2. Fittings

Skaala uses the best tilt&turn fittings available. An advanced fitting system makes all operations quick and easy. Besides the hinges, on the frame there are from 2 to 6 locking points, depending on the size of the window. The mechanism allows also later adjustment if needed.

## 3. Two strong weather-seals as a standard.

## 4. Glazing

Full flexibility in selection of glass. Sealed double glazed unit as a standard.

- Low E-glass
- Low E-glass+argon
- Triple glazing
- Toughened / laminated
- Obscure
- Sound insulation
- Solar control

Glazing from inside. Secured with sturdy list (hidden nailing), silicon and sealing. With the spacer in the glazing unit you can give your windows a harmonious and individual expression.

Standard colours: brown, white, and natural. Other colours on request.

## 5. Surface treatment

Oil-based preservative always as a base. Full factory finish available: stain, lacquer and paint. Modern technology provides a better guarantee for an excellent and durable finish. There is also the additional ecological benefit of minimised waste.

## 6. Ventilator as an option (UK as a standard).

## 7. Standard and lockable handles as required.

## 8. Accessories

Child safety restrictors, extension sills and astragals available as an option.

## 9. Mix & Match

Fixed windows that are compatible with the T&T windows can be delivered either integrated or separately.



## Skaala - test results

Skaala is committed to quality. Traditional craftsmanship and the understanding of overall conditions combined with top class materials and modern technology enable us to achieve results that are difficult to exceed. Top class test results are a proof of the quality that Skaala T&T windows have.

**1. Top results in the test of air permeability:**

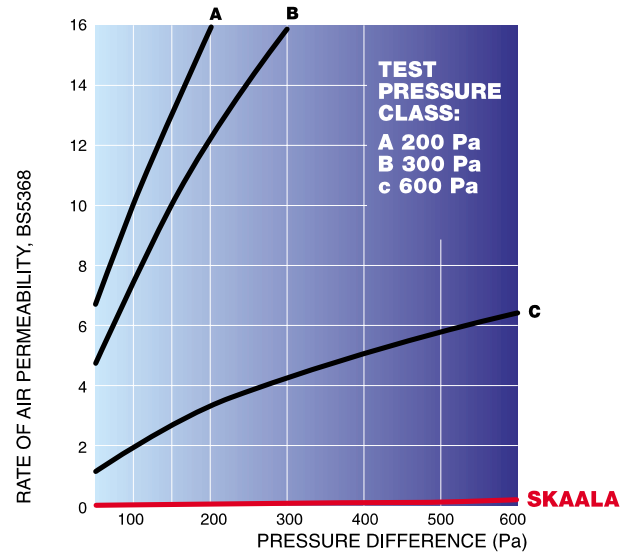
no leakage up to 500 Pa pressure difference; thereafter insignificant permeability to be distinguished.

**2. Top results in the test of water tightness test:**

no leakage within test limits of 1000 Pa pressure difference (corresponds to wind speed of 40 m/s).

**3. Top results in the test of wind resistance:**

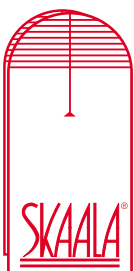
no significant displacement of construction, only negligible. The tests were carried out by British Standard / Macdata on the 2nd of February 1995.



## Skaala - naturally

Another commitment of Skaala is Customer Designed Deliveries. The whole production process is built on the customers' requirements and every window model that has been ordered from Skaala is individually handled and accurately delivered according to schedule.

The raw material of all wooden parts is the slow-growing Finnish pine, a renewable natural resource from the well maintained forests. The surface treatment system is one of the most modern in Europe, which enables Skaala to use both water and oil-based materials with great flexibility.



Certificated Quality System

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