

# Techtonic Non-Retractable

Internal louvre blind



Internal T50 fitted in library



Internal circular T88

## Description:

The Techtonic non-retractable louvre blind system has been designed specifically for roof applications, both internal and external, and is suitable for horizontal, sloping or unusually shaped glazed areas, particularly conservatory type roofs. The system consists of an aluminium sub frame which is assembled beneath the glazing area to be covered. Once this sub frame is in place, aluminium or wood louvres are clipped in. The system adapts to fit almost any glazed area, and provides the solution to the most difficult applications. Once installed, the fully adjustable louvres reduce solar heat gain, control glare, allow outward vision and ensure best use of natural lighting conditions. Techtonic is a very robust product and is virtually maintenance free.

Techtonic louvres, supported from aluminium rack arms, prevent the problem of sagging which can occur with retractable blinds. Many control options are possible from manual, where appropriate, through to electric and remote. Timers and sun sensors may also be used.

Techtonic is available with 50mm, 80mm and 88mm aluminium slat, with 50mm wood slats providing a beautiful option for office, boardroom or domestic use.

## Function

- Automatic/ Manual
- Durable
- Proven Technology
- Sustainable

## Control

- Solar Gain
- Light level
- Thermal comfort
- Energy Saving

### System selection

There are four louvre options :

**T50** This is the standard blind and the most cost effective.

**TW50** This is a wood slat option which is only available in 50mm slat width. Only high quality Basswood is used which is sourced from renewable forests. Basswood is the most suitable wood for manufacturing blinds as it has a very even grain and of all woods, has the least tendency to warp or bend.

These features make Basswood the key element of quality wood blinds. Wood is a natural product and has maximum tolerances which are far lower than those of aluminium, (for example, the maximum length of slat which may be used is far shorter than that of aluminium.)

**T80** This has a heavy duty aluminium rolled edge slat which could be preferred in areas where damage could occur to standard slat. This system is appropriate for commercial use.

**T88AV** A very heavy extruded section that interlocks when closed. It gives a good degree of dim out for film projection or gallery light level control in addition to providing a fully adjustable sunscreen. With side masking fitted, the blinds can also be fully closed to reduce light levels to 20 Lux and below.

#### Solar control

Techtonic, fitted internally, reduces solar heat gain with reductions of up to 45% being possible. External Techtonic can achieve reductions between 80 and 90%.

#### Insulation

An additional benefit, with the installation of Techtonic is the provision of a trapped layer of air which can help to reduce overnight heat loss in winter time. Night Sky Radiation is also reduced when louvres are in the closed position.

#### Controls

Most domestic applications use electric control for convenience although manual controls can be used where the areas covered are not too large or if the roof is not too high. Electric control means that the whole area can be adjusted easily from one switch. Manual options range from a simple lever control or a gearbox which has a detachable handle. The last option is by far the most efficient and popular.

The motor is located within the blind area and control can be from a simple manual switch to a complex system linked to the building services.

For galleries, light level control systems allow the louvres to adjust to maintain an even light level within a selected band width. For commercial buildings less complex solar, thermostat or timer controls would usually be specified. Our leaflet, "A Guide to Control Options, for electric blinds" describes the options in detail.

Automated control can ensure that the blinds react to external conditions to produce optimum performance. In commercial buildings certain areas may be provided with manual overrides, (local switch), to the automatic system, to cater for the occupants varying lighting or shading requirements

#### Techtonic External

The Techtonic external range, (see separate leaflet), offers louvre widths of 80mm or 88mm in aluminium only, external blinds are essential when controlling excessive solar heat build up.