

# Expertise Statement

455 31092/1e dated 18. November 2008

referring to Evidence of Performance

403 31092/2 dated 4 July 2006

thermal transmittance  $U_m$  of roof windows



Translation of expertise statement 403 31092/1 dated 10 July 2006

Client **VELUX A/S**

Ådalsvej 99

2970 Hørsholm

Denmark

## Basis

EN ISO 12567-2 : 2005

Thermal performance of windows and doors - Determination of thermal transmittance by hot box method - Part 2: Roof windows and other projecting windows

Test report 403 37092/2 dated 4 July 2006

Product	Roof window
Designation	VELUX GGL 59, GPL 59, GHL 59, GTL 59
Overall dimensions (W x H)	see „Validity“
(Frame) Material	Wood (pine), Cover plate in aluminum / coated
Type of opening	Top-hung casement-horizontal pivot window Insulating glass unit VELUX 59 Configuration: <u>SSG4/16/4</u> mm Gas filling: 95 % Argon Coating: IR-coating (V6) on Pos. 3 ( $\epsilon_n=0.03$ )
Infill panel	Edge seals: Stainless steel
Installation	Installation depth in test wall: 49 mm with roof flashing in aluminium / coated
Special features	1 ventilation opening in casement member above, coverage of the slit exterior: cover plate in aluminum / coated with filters and inlay made of thermal insulation (polystyrene), coverage of the slit interior: cover in wood (pine)

## Instructions for use

The present expert statement in conjunction with the above basis serves to demonstrate the „thermal transmittance  $U_m$  of roof windows.“

## Validity

The testing and/or the evidence of performance „thermal transmittance  $U_m$  of windows“ does not allow any statement to be made on any further characteristics relevant to performance and quality of the present construction.

The thermal transmittance  $U_m$  has been determined for the reference size 1140 mm x 1400 mm in accordance with the specifications of the standard EN 14351-1.

## Thermal transmittance



$$U_m = 1.4 \text{ W}/(\text{m}^2 \cdot \text{K})^*$$

\*) According to EN ISO 12567-2 : 2005 based on test report 403 31092/2 dated 4 July 2006 and the in existing statements described deviations to the examined product variants.

## Notes on publication

The **ift** Guidance Sheet "Conditions and Guidance for the Use of **ift** Test Documents" applies.

The cover sheet can be used as abstract.

## Contents

The report comprises a total of 9 pages

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ift Rosenheim  
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