Certified Passive House Component				Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt GERMANY
Category:Attic staircaseManufacturer:WIPPRO GmbHA191 Vorderweissenbach, AUSTRIAProduct name:KLIMATEC 160This certificate was awarded basedon the following criteria:			Representation of the Passive House Attic Stairs	
A given component size	e of 1.40 m by 0.70 (m²K) ≤		n: W/(m²K)	Isothermal map of the Passive House Attic
Taking the installation situations into account, the component meets the following criterion.				Stairs
U _{D,installed}	≤	0.60	W/(m²K)	Isothermal map installation in concrete ceiling
Functional requirements of hygiene: f _{Rsi = 0,25 m²K/W} ≥ 0.80				
Following thermal bridge coefficients Ψ [W/(mK)] have been determined:				Isothermal map installation in wooden-
	Wooden- beam ceiling	Concrete- ceiling	Concrete-ceiling with frame	beam ceiling
Thermal bridge coeffic Ψ [W/(mK)]	cient 0.04	0.08	0.05	
U _{D,installed} [W/(m²K)]	0.52	0.70	0.57	
Description				
Attic stairs of wooden composite material. Trap door with insulation of extruded polystyrene ($\lambda = 0.035$ W/(mk)) and coating of sheet metal. 3 - level airtightness-sealing (EPDM, TPE) and sorrounding insulation of mineral wool ($\lambda = 0.035$ W/(mk)). Installation in arctic climates requires installation frame for concrete-ceilings.				arctic climate

Please ask the manufacturer for a detailed report containing all calculations and results.

www.passivehouse.com