

TUTORIAL - 3-dimensional:

Corner construction over carport. Masonry bearing wall on girder
over carport and bonded with concrete floor slab (+ ext. insul,
perimeter insul., elect. heating assembly in floor topping).

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Angaben zur Modellierung der Bauteilkonstruktion

Räume :

Raumbez.: Room 0

$\alpha = 25 \text{ W/(m}^2\text{K)}$ $R_s = 0,0400 \text{ m}^2\text{K/W}$: Ext. transfer coeff.

Raumbez.: Room 1

$\alpha = 6 \text{ W/(m}^2\text{K)}$ $R_s = 0,1667 \text{ m}^2\text{K/W}$: Int. transfer coeff.

Wärmequellen :

Wärmequelle: PS 0

Baustoffe :

$\lambda = 0,271 \text{ W/(m K)}$: Adhesive mortar

$\lambda = 1,2 \text{ W/(m K)}$: Concrete topping

$\lambda = 0,15 \text{ W/(m K)}$: Expansion strip

$\lambda = 0,8 \text{ W/(m K)}$: Exterior plaster

$\lambda = 0,041 \text{ W/(m K)}$: Insulation

$\lambda = 0,7 \text{ W/(m K)}$: Interior plaster

$\lambda = 0,04 \text{ W/(m K)}$: Isol. underlayment

$\lambda = 0,164 \text{ W/(m K)}$: Masonry wall

$\lambda = 0,5 \text{ W/(m K)}$: Perimeter brick

$\lambda = 2,2 \text{ W/(m K)}$: Reinf. concrete

$\lambda = 1 \text{ W/(m K)}$: Sand cushion

$\lambda = 0,8 \text{ W/(m K)}$: Stucco