Block BASE

The BASE block calculates the dynamic conductance value for unsteady heat transport via basement around an building. Calculation is based on EN ISO 13370.



Name	BASE
Function	bs0015
Inputs	0
Outputs	4
Parameters	17
Strings	0
Group	S

Inputs

None

Outputs

1 Dynamic conductance via basement floor [W/K]
2 Dynamic conductance via basement wall [W/K]
3 Static conductance [W/K]
4 Phase shift because of basement [mth.]

Parameters

1 Switch base-mode (0: no cellar without ins. band 1: no cellar with ins. band 2: heated cellar 3: unheated cellar)
2 Switch ins. band modus (only for PARAMS(1)=1) (0: horizontal 1: vertical)
3 Net volume cellar [m^3]
4 Area of basement floor [m^2]
5 External perimeter of basement floor [m]
6 Height of cellar wall [m]
7 Thickness of cellar wall [m]
8 Height cellar wall above ground [m]

9	Width of insulation band [m]
10	Thickness of ins. band [m]
11	Thermal resistance of wall under ground [(m^2*K)/W]
12	Thermal resistance of ground plate [(m^2*K)/W]
13	U-value cellar ceiling [W/(m^2*K)]
14	Thermal resistance of insulation band (Dämmstreifen) [(m^2*K)/W]
15	U-value wall above ground [W/(m^2*K)
16	Ventilation rate in cellar [1/h]
17	Thermal conductivity of soil [W/(mK)]

Strings

None