

Standard Table: c.s. envelope

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
CS_Envelope		-	the exterior plus semi-exterior portions of a building (separating conditioned space from external environment or from unconditioned space)	ANSI/ASHRAE 90.1*	-	-	-
has	Vertical_Enclosure	-	portion of the building envelope, including opaque surface and vertical fenestration, that is vertical or tilted at an angle of 60 degrees from horizontal or greater	ANSI/ASHRAE 90.1*	string	-	-
has	Wall	wall [new]	opaque surface of the vertical enclosure	ANSI/ASHRAE 90.1*	string	-	-
has	Wall_Name	wall name [new]	name of the wall	-	string	-	-
has	Wall_Coordinate	wall coordinates [new]	coordinates of the wall	-	real	-	-
has	Wall_Startpoint	wall coordinates - startpoint [new]	startpoint of the coordinates of the wall	-	real	-	-
has	Wall_Endpoint	wall coordinates - endpoint [new]	endpoint of the coordinates of the wall	-	real	-	-
has	Wall_Type	type of wall	type of wall	-	string	-	-
	is	Mass_Wall	a wall with an heat capacity exceeding 143 kJ/m ² K, provided that the wall has a material unit weight not greater than 1920 kg/m ³	ANSI/ASHRAE 90.1	string	-	-
	is	Metal_Building_Wall	a wall whose structure consists of metal spanning members supported by steel structural members	ANSI/ASHRAE 90.1	string	-	-
	is	Steel-framed_Wall	a wall with a cavity (insulated or otherwise) whose exterior surfaces are separated by steel framing members (e.g. curtain wall systems)	ANSI/ASHRAE 90.1	string	-	-
	is	Wood-framed_Wall	wood stud wall	ANSI/ASHRAE 90.1	string	-	-
	is	Cavity_Wall	-	SAP	string	-	-
	is	Solid_Brick_As_Built_Wall	-	SAP	string	-	-
	is	A	-	-	-	-	-
	is	A	-	-	-	-	-
has	Wall_Location_Type	type of location of the wall [new]	type of location of the wall with respect to the building	-	string	-	-
	is	Main_Wall	-	Manresa Cadastre	string	-	-
	is	Back_Wall	-	Manresa Cadastre	string	-	-
	is	Lateral_Wall	-	Manresa Cadastre	string	-	-
has	Wall_Color	color of the wall [new]	color of the wall	-	string	-	-
has	Orientation	orientation [new]	the direction an envelope element faces, i.e. the direction of a vector perpendicular to and pointing away from the surface outside of the element	ANSI/ASHRAE 90.1	string	-	"SPACE"
has	Wall_Adjacent_Space	wall adjoining space	space adjacent to the wall	-	string	-	-
	is	External_Environment	external unenclosed space	-	string	-	-
	is	Unconditioned_Space	enclosed space within a building that is not a conditioned space or a semi-conditioned space; room or enclosure that is not part of a conditioned space	ANSI/ASHRAE 90.1 EN ISO 13790	string	-	-
	is	Adjacent_Building	a building adjacent to the wall	-	string	-	-
	is	Ground	ground	-	string	-	-
has	Wall_Area	wall area	the area of the wall measured on the exterior face from the top of the floor to the bottom of the roof	ANSI/ASHRAE 90.1	real	m ²	-
has	Wall_Dimension	wall dimensions	size of the wall, defined through two dimensions (length and height)	-	-	-	-
	has	Wall_Length	wall length [new]	-	real	m	-
	has	Wall_Height	wall height [new]	-	real	m	-
has	Wall_Thickness	wall thickness	thickness of the wall	-	real	m	-
has	Wall_Insulation	wall insulation	insulation of the wall	-	string	-	-
	has	Wall_Insulation_Type	type of wall insulation [new]	-	string	-	-
	is	Cavity_As_Built_Wall_Insulation	-	SAP	string	-	-
	is	Filled_Cavity_Wall_Insulation	-	SAP	string	-	-
	is	Solid_Brick_As_Built_Wall_Insulation	-	SAP	string	-	-
	is	A	-	-	-	-	-
	is	A	-	-	-	-	-
	has	Wall_Insulation_Thickness	wall insulation thickness	-	real	m	-
has	Wall_U-value	wall U-value	thermal transmittance of the wall: heat flow density through the wall divided by the difference in environmental temperatures on either side of the wall in steady-state condition	-	real	W/(m ² K)	-

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has	Wall_α-value	wall α-value	solar absorption factor of the surface of the wall: fraction of incident solar irradiance that is absorbed by the surface of the wall	-	real	-	-
has	Wall_Fsh,ob-value	wall Fsh,ob-value [new]	shading reduction factor of the wall for external obstacles	EN ISO 13790	real	-	-
has	Window	window [new]	or vertical fenestration, fenestration surface having a slope of more than 60 degrees from the horizontal plane	ANSI/ASHRAE 90.1	string	-	-
has	Window_Name	window name [new]	name of the window	-	string	-	-
has	Window_Coordinate	window coordinates [new]	coordinates of the window	-	real	-	-
has	Window_Startpoint	window coordinates - startpoint [new]	startpoint of the coordinates of the window	-	real	-	-
has	Window_Endpoint	window coordinates - endpoint [new]	endpoint of the coordinates of the window	-	real	-	-
has	Window_Type	type of window	type of window	-	string	-	-
is	Double_Window	-	window with double glass panel	-	string	-	-
is	Double_Post_2002_Window	-	-	SAP	string	-	-
is	Double_Pre_2002_Window	-	-	SAP	string	-	-
is	A	-	-	-	-	-	-
is	A	-	-	-	-	-	-
has	Orientation	orientation [new]	the direction an envelope element faces, i.e. the direction of a vector perpendicular to and pointing away from the surface outside of the element	ANSI/ASHRAE 90.1	string	-	"SPACE"
has	Window_Adjacent_Space	window adjoining space	space adjacent to the window	-	string	-	-
is	External_Environment	-	external unenclosed space	-	string	-	-
is	Unconditioned_Space	-	enclosed space within a building that is not a conditioned space or a semi-conditioned space; room or enclosure that is not part of a conditioned space	ANSI/ASHRAE 90.1 EN ISO 13790	string	-	-
has	Window_Area	window area	total area of the window measured using the rough opening and including the glass, sash, and frame	ANSI/ASHRAE 90.1*	real	m ²	-
has	Window_Dimension	window dimensions	size of the window, defined through two dimensions (length and height)	-	-	-	-
has	Window_Length	window length [new]	length of the window	-	real	m	-
has	Window_Height	window height [new]	height of the window	-	real	m	-
has	Window_Setback	window setback [new]	setback of the window	-	real	m	-
has	Window_U-value	window U-value	thermal transmittance of the window: heat flow density through the window divided by the difference in environmental temperatures on either side of the window in steady-state condition	-	real	W/(m ² K)	-
has	Window_Glass	window glass [new]	the glazing panel of a window	EN ISO 10077-1	string	-	-
has	Window_Glass_Type	type of window glass	type of window glass	-	string	-	-
is	Single_Window_Glass	-	-	SAP	string	-	-
is	Double_Post_2002_Window_Glass	-	-	SAP	string	-	-
is	A	-	-	-	-	-	-
has	Window_Glass_Area	window glass area	area of the glazing panel of a window	EN ISO 10077-1	real	m ²	-
has	Window_Glass_U-value	window glass U-value	thermal transmittance of the window glass: heat flow density through the window glass divided by the difference in environmental temperatures on either side of the window glass in steady-state condition	-	real	W/(m ² K)	-
has	Window_Glass_g-value	window glass g-value	total solar energy transmittance coefficient of the window glass: the ratio of the solar heat gain entering the space through the window glass area to the incident solar radiation. Solar heat gain includes directly transmitted solar heat and absorbed solar radiation, which is then reradiated, conducted, or convected into the conditioned space	ANSI/ASHRAE 90.1* EN 410	real	-	-
has	Window_Glass_Plus_Shading_g-value	window glass plus shading g-value [new]	total solar energy transmittance coefficient of the window glass plus solar shading, when the solar shading is in use	EN ISO 13790	real	-	-
has	Window_Frame	window frame [new]	the frame of a window	EN ISO 10077-1	string	-	-
has	Window_Frame_Type	type of window frame [new]	type of window frame	-	string	-	-
has	Window_Frame_Area	window frame area [new]	the larger of the two projected areas (internal projected frame area and external projected frame area) seen from both sides. The internal projected frame area is the area of the projection of the internal frame, including sashes if present, on a plane parallel to the glazing panel. The external projected frame area is the area of the projection of the external frame, including sashes if present, on a plane parallel to the glazing panel	EN ISO 10077-1	real	m ²	-

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets	
	has	Window_Frame_U-value	window frame U-value [new]	thermal transmittance of the window frame: heat flow density through the window frame divided by the difference in environmental temperatures on either side of the window frame in steady-state condition	-	real	W/(m ² K)	-
	has	Window_Overhang	window overhang [new]	overhang on the window	-	string	-	-
	has	Window_Overhang_Geometry	window overhang geometry [new]	geometry referred to the overhang of the window	-	-	-	-
	has	Window_Overhang_Distance_From_Upper_Edge	-	distance of the overhang from the upper edge of the window	-	real	m	-
	has	Window_Overhang_Distance_From_Right_Edge	-	distance of the overhang from the right edge of the window	-	real	m	-
	has	Window_Overhang_Distance_From_Left_Edge	-	distance of the overhang from the left edge of the window	-	real	m	-
	has	Window_Overhang_Width_Upper	-	width of the upper part of the overhang	-	real	m	-
	has	Window_Overhang_Width_Right	-	width of the right part of the overhang	-	real	m	-
	has	Window_Overhang_Width_Left	-	width of the left part of the overhang	-	real	m	-
	has	Window_Overshading_Type	window degree of overshading [new]		SAP	string	-	-
	is	Window_Average_Overshading	-		SAP	string	-	-
	is	Window_Heavy_Overshading	-		SAP	string	-	-
	is	Å						
	has	Window_Fsh,ob-value	window Fsh,ob-value [new]	shading reduction factor of the window for external obstacles	EN ISO 13790	real	-	-
	has	Vertical_Enclosure_Area	vertical enclosure area [new]	overall area of the vertical enclosure of the building	-	real	m ²	-
	has	Overall_Window_Area	overall window area [new]	overall area of the windows of the vertical enclosure of the building	-	real	m ²	-
	has	Percentage_Of_Window	percentage of overall window area on vertical enclosure area [new]	percentage of overall window area on overall vertical enclosure area	-	real	%	-
	has	Door	door [new]	operable opening area (which is not window) in the vertical enclosure, including swinging and roll-up door, fire door, and access hatch. Door that is more than one-half glass is considered window	ANSI/ASHRAE 90.1*	string	-	-
	has	Door_Name	door name [new]	name of the door	-	string	-	-
	has	Door_Coordinate	door coordinates [new]	coordinates of the door	-	real	-	-
	has	Door_Startpoint	door coordinates - startpoint [new]	startpoint of the coordinates of the door	-	real	-	-
	has	Door_Endpoint	door coordinates - endpoint [new]	endpoint of the coordinates of the door	-	real	-	-
	has	Door_Type	type of door	type of door	-	string	-	-
	is	Nonswinging_Door	-	roll-up, sliding, and all other doors that are not swinging doors	ANSI/ASHRAE 90.1	string	-	-
	is	Swinging_Door	-	all operable opaque panels with hinges on one side and opaque revolving doors	ANSI/ASHRAE 90.1	string	-	-
	is	Å						
	has	Orientation	orientation [new]	the direction an envelope element faces, i.e. the direction of a vector perpendicular to and pointing away from the surface outside of the element	ANSI/ASHRAE 90.1	string	-	"SPACE"
	has	Door_Adjacent_Space	door adjoining space	space adjacent to the door	-	string	-	-
	is	External_Environment	-	external unenclosed space	-	string	-	-
	is	Unconditioned_Space	-	enclosed space within a building that is not a conditioned space or a semi-conditioned space; room or enclosure that is not part of a conditioned space	ANSI/ASHRAE 90.1 EN ISO 13790	string	-	-
	has	Door_Area	door area	total area of the door measured using the rough opening and including the door slab and the frame	ANSI/ASHRAE 90.1	real	m ²	-
	has	Door_Dimension	door dimensions	size of the door, defined through two dimensions (length and height)	-	-	-	-
	has	Door_Length	door length [new]	length of the door	-	real	m	-
	has	Door_Height	door height [new]	height of the door	-	real	m	-
	has	Door_Thickness	door thickness	thickness of the door	-	real	m	-
	has	Door_Insulation	door insulation	insulation of the door	-	string	-	-
	has	Door_Insulation_Type	type of door insulation [new]	type of insulation of the door	-	string	-	-
	has	Door_Insulation_Thickness	door insulation thickness	thickness of the insulation of the door	-	real	m	-

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets	
	has	Door_U-value	door U-value	thermal transmittance of the door: heat flow density through the door divided by the difference in environmental temperatures on either side of the door in steady-state condition	-	real	W/(m ² K)	-
	has	Door_α-value	door α-value	solar absorption factor of the surface of the door: fraction of incident solar irradiance that is absorbed by the surface of the door	-	real	-	-
	has	Door_Fsh,ob-value	door Fsh,ob-value [new]	shading reduction factor of the door for external obstacles	EN ISO 13790	real	-	-
has	Horizontal_Superior_Enclosure		-	upper portion of the building envelope, including opaque surface and fenestration, that is horizontal or titled at an angle of less than 60 degrees from horizontal (separating conditioned space by external environment)	ANSI/ASHRAE 90.1*	string	-	-
	has	Roof	roof [new]	opaque surface of the horizontal superior enclosure	ANSI/ASHRAE 90.1*	string	-	-
	has	Roof_Coordinate	roof coordinates [new]	coordinates of the roof	-	real	-	-
		has	Roof_Startpoint	roof coordinates - startpoint [new]	startpoint of the coordinates of the roof	real	-	-
		has	Roof_Endpoint	roof coordinates - endpoint [new]	endpoint of the coordinates of the roof	real	-	-
	has	Roof_Type	type of roof	type of roof	-	string	-	-
		is	Pitched_Slates_Or_Tiles_Roof	-	SAP	string	-	-
		is	A	-	-	-	-	-
		is	A	-	-	-	-	-
	has	Orientation	orientation [new]	the direction an envelope element faces, i.e. the direction of a vector perpendicular to and pointing away from the surface outside of the element	ANSI/ASHRAE 90.1	string	-	"SPACE"
	has	Roof_Tilt	roof tilt [new]	angle between the plane containing the surface of the roof and the horizontal plane	-	real	°	-
	has	Roof_Area	roof area	the area of the roof measured from the exterior faces of walls of from the centerline of party walls	ANSI/ASHRAE 90.1	real	m ²	-
	has	Roof_Thickness	roof thickness	thickness of the roof	-	real	m	-
	has	Roof_Insulation	roof insulation	insulation of the roof	-	string	-	-
		has	Roof_Insulation_Type	type of roof insulation [new]	-	string	-	-
		has	Roof_Insulation_Thickness	roof insulation thickness	-	real	m	-
	has	Roof_U-value	roof U-value	thermal transmittance of the roof: heat flow density through the roof divided by the difference in environmental temperatures on either side of the roof in steady-state condition	-	real	W/(m ² K)	-
	has	Roof_α-value	roof α-value	solar absorption factor of the surface of the roof: fraction of incident solar irradiance that is absorbed by the surface of the roof	-	real	-	-
	has	Roof_Fsh,ob-value	roof Fsh,ob-value [new]	shading reduction factor of the roof for external obstacles	EN ISO 13790	real	-	-
has	Skylight		skylight [new]	fenestration surface having a slope of less than 60 degrees from the horizontal plane	ANSI/ASHRAE 90.1	string	-	-
	has	Skylight_Name	skylight name [new]	name of the skylight	-	string	-	-
	has	Skylight_Coordinate	skylight coordinates [new]	coordinates of the skylight	-	real	-	-
		has	Skylight_Startpoint	skylight coordinates - startpoint [new]	startpoint of the coordinates of the skylight	real	-	-
		has	Skylight_Endpoint	skylight coordinates - endpoint [new]	endpoint of the coordinates of the skylight	real	-	-
	has	Skylight_Type	type of skylight	type of skylight	-	string	-	-
		is	Double_Skylight	-	-	string	-	-
		is	Double_Post_2002_Skylight	-	SAP	string	-	-
		is	Double_Pre_2002_Skylight	-	SAP	string	-	-
	has	Orientation	orientation [new]	the direction an envelope element faces, i.e. the direction of a vector perpendicular to and pointing away from the surface outside of the element	ANSI/ASHRAE 90.1	string	-	"SPACE"
	has	Skylight_Tilt	skylighty tilt [new]	angle between the plane containing the surface of the skylight and the horizontal plane	-	real	°	-
	has	Skylight_Area	skylight area	total area of the skylight measured using the rough opening and including the glass, sash, and frame	ANSI/ASHRAE 90.1*	real	m ²	-
	has	Skylight_Dimension	skylight dimensions	size of the skylight, defined through two dimensions (length and width)	-	-	-	-
		has	Skylight_Length	skylight length [new]	-	real	m	-
		has	Skylight_Width	skylight width [new]	-	real	m	-

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
has	Skylight_U-value	<i>skylight U-value</i>	thermal transmittance of the skylight: heat flow density through the skylight divided by the difference in environmental temperatures on either side of the skylight in steady-state condition	-	real	W/(m ² K)	-
has	Skylight_Glass	<i>skylight glass [new]</i>	the glazing panel of a skylight	EN ISO 10077-1*	string	-	-
	has Skylight_Glass_Type	<i>type of skylight glass</i>	type of skylight glass	-	string	-	-
	is Single_Skylight_Glass	-		SAP	string	-	-
	is Double_Post_2002_Skylight_Glass	-		SAP	string	-	-
	is Å	-					
has	Skylight_Glass_Area	<i>skylight glass area</i>	area of the glazing panel of a skylight	EN ISO 10077-1*	real	m ²	-
has	Skylight_Glass_U-value	<i>skylight glass U-value</i>	thermal transmittance of the skylight glass: heat flow density through the skylight glass divided by the difference in environmental temperatures on either side of the skylight glass in steady-state condition	-	real	W/(m ² K)	-
has	Skylight_Glass_g-value	<i>skylight glass g-value</i>	total solar energy transmittance coefficient of the skylight glass: the ratio of the solar heat gain entering the space through the skylight glass area to the incident solar radiation. Solar heat gain includes directly transmitted solar heat and absorbed solar radiation, which is then reradiated, conducted, or convected into the conditioned space	ANSI/ASHRAE 90.1* EN 410	real	-	-
has	Skylight_Glass_Plus_Shading_g-value	<i>skylight glass plus shading g-value [new]</i>	total solar energy transmittance coefficient of the skylight glass plus solar shading, when the solar shading is in use	EN ISO 13790*	real	-	-
has	Skylight_Frame	<i>type of skylight frame [new]</i>	the frame of a skylight	EN ISO 10077-1*	string	-	-
has	Skylight_Frame_Area	<i>skylight frame area [new]</i>	the larger of the two projected areas (internal projected frame area and external projected frame area) seen from both sides. The internal projected frame area is the area of the projection of the internal frame, including sashes if present, on a plane parallel to the glazing panel. The external projected frame area is the area of the projection of the external frame, including sashes if present, on a plane parallel to the glazing panel	EN ISO 10077-1	real	m ²	-
has	Skylight_Frame_U-value	<i>skylight frame U-value [new]</i>	thermal transmittance of the skylight frame: heat flow density through the skylight frame divided by the difference in environmental temperatures on either side of the skylight frame in steady-state condition	-	real	W/(m ² K)	-
has	Skylight_Overshading_Type	<i>skylight degree of overshading [new]</i>		SAP	string	-	-
	is Skylight_Average_Overshading	-		SAP	string	-	-
	is Skylight_Heavy_Overshading	-		SAP	string	-	-
	is Å						
has	Skylight_Fsh,ob-value	<i>skylight Fsh,ob-value [new]</i>	shading reduction factor of the skylight for external obstacles	EN ISO 13790*	real	-	-
has	Horizontal_Superior_Enclosure_Area	<i>horizontal superior enclosure area [new]</i>	overall area of the horizontal superior enclosure of the building	-	real	m ²	-
has	Overall_Skylight_Area	<i>overall skylight area [new]</i>	overall area of the skylights of the building	-	real	m ²	-
has	Percentage_Of_Skylight	<i>percentage of overall skylight area on horizontal superior enclosure area [new]</i>	percentage of overall skylight area on overall horizontal superior enclosure area	-	real	%	-
has	Ceiling	<i>ceiling [new]</i>	upper portion of the building envelope, including opaque surface and fenestration, that is horizontal or titled at an angle of less than 60° from horizontal (separating conditioned space by unconditioned space)	ANSI/ASHRAE 90.1*	string	-	-
has	Ceiling_Coordinate	<i>ceiling coordinates [new]</i>	coordinates of the ceiling	-	real	-	-
has	Ceiling_Startpoint	<i>ceiling coordinates - startpoint [new]</i>	startpoint of the coordinates of the ceiling	-	real	-	-
has	Ceiling_Endpoint	<i>ceiling coordinates - endpoint [new]</i>	endpoint of the coordinates of the ceiling	-	real	-	-
has	Ceiling_Type	<i>type of ceiling</i>	type of ceiling	-	string	-	-
has	Ceiling_Adjacent_Space	<i>ceiling adjoining space</i>	space adjacent to the ceiling	-	string	-	-
	is Unconditioned_Space	-	enclosed space within a building that is not a conditioned space or a semi-conditioned space; room or enclosure that is not part of a conditioned space	ANSI/ASHRAE 90.1 EN ISO 13790	string	-	-
has	Ceiling_Area	<i>ceiling area</i>	the area of the ceiling measured from the exterior faces of walls of from the centerline of party walls	ANSI/ASHRAE 90.1*	real	m ²	-

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has	Ceiling_Dimension	<i>ceiling dimensions</i>	size of the ceiling, defined through two dimensions (length and width)	-	-	-	-
	has Ceiling_Length	<i>ceiling length [new]</i>	length of the ceiling	-	real	m	-
	has Ceiling_Width	<i>ceiling width [new]</i>	width of the ceiling	-	real	m	-
has	Ceiling_Thickness	<i>ceiling thickness</i>	thickness of the ceiling	-	real	m	-
has	Ceiling_Insulation	<i>ceiling insulation</i>	insulation of the ceiling	-	string	-	-
	has Ceiling_Insulation_Type	<i>type of ceiling insulation [new]</i>	type of insulation of the ceiling	-	string	-	-
	has Ceiling_Insulation_Thickness	<i>ceiling insulation thickness</i>	thickness of the insulation of the ceiling	-	real	m	-
has	Ceiling_U-value	<i>ceiling U-value</i>	thermal transmittance of the ceiling: heat flow density through the ceiling divided by the difference in environmental temperatures on either side of the ceiling in steady-state condition	-	real	W/(m ² K)	-
has	Bottom_Floor	<i>bottom floor [new]</i>	lower portion of the building envelope, including opaque surface, that is horizontal or titled at an angle of less than 60° from horizontal	ANSI/ASHRAE 90.1*	string	-	-
has	Bottom_Floor_Coordinate	<i>bottom floor coordinates [new]</i>	coordinates of the bottom floor	-	real	-	-
	has Bottom_Floor_Startpoint	<i>bottom floor coordinates - startpoint [new]</i>	startpoint of the coordinates of the bottom floor	-	real	-	-
	has Bottom_Floor_Endpoint	<i>bottom floor coordinates - endpoint [new]</i>	endpoint of the coordinates of the bottom floor	-	real	-	-
has	Bottom_Floor_Type	<i>type of bottom floor</i>	type of bottom floor	-	string	-	-
	is Mass_Floor	-	a floor with an heat capacity that exceeds 143 kJ/m ² K, provided that the floor has a material unit mass not greater than 1920 kg/m ³	ANSI/ASHRAE 90.1	string	-	-
	is Steel-joist_Floor	-	a floor that has steel joist members supported by structural members	ANSI/ASHRAE 90.1	string	-	-
	is Wood-framed_Floor	-	wood joist floor	ANSI/ASHRAE 90.1	string	-	-
	is Sealed_Wooden_Floor	-		SAP	string	-	-
	is Unsealed_Wooden_Floor	-		SAP	string	-	-
	is Other_Floor	-		SAP	string	-	-
has	Bottom_Floor_Adjacent_Space	<i>bottom floor adjoining space</i>	space adjacent to the bottom floor	-	string	-	-
	is External_Environment	-	external unenclosed space	-	string	-	-
	is Unconditioned_Space	-	enclosed space within a building that is not a conditioned space or a semi-conditioned space; room or enclosure that is not part of a conditioned space	ANSI/ASHRAE 90.1 EN ISO 13790	string	-	-
	is Ground	<i>type of ground [new]</i>	ground	-	string	-	-
has	Bottom_Floor_Area	<i>bottom floor area</i>	the area of the bottom floor measured from the exterior faces of walls of from the centerline of party walls	ANSI/ASHRAE 90.1*	real	m ²	-
has	Bottom_Floor_Dimension	<i>bottom floor dimensions</i>	size of the bottom floor, defined through two dimensions (length and width)	-	-	-	-
	has Bottom_Floor_Length	<i>bottom floor length [new]</i>	length of the bottom floor	-	real	m	-
	has Bottom_Floor_Width	<i>bottom floor width [new]</i>	width of the bottom floor	-	real	m	-
has	Bottom_Floor_Thickness	<i>bottom floor thickness</i>	thickness of the bottom floor	-	real	m	-
has	Bottom_Floor_Insulation	<i>bottom floor insulation</i>	insulation of the bottom floor	-	string	-	-
	has Bottom_Floor_Insulation_Type	<i>type of bottom floor insulation [new]</i>	type of insulation of the bottom floor	-	string	-	-
	has Bottom_Floor_Insulation_Thickness	<i>bottom floor insulation thickness</i>	thickness of the insulation of the bottom floor	-	real	m	-
has	Bottom_Floor_U-value	<i>bottom floor U-value</i>	thermal transmittance of the bottom floor: heat flow density through the bottom floor divided by the difference in environmental temperatures on either side of the bottom floor in steady-state condition	-	real	W/(m ² K)	-