

Standard Table: *building*

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
<b>Building</b>		-	construction as a whole, including its envelope and all technical building systems, for which energy is used to condition the indoor climate, to provide domestic hot water and illumination and other services related to the use of the building	EN 15603	-	-	-
<i>has</i>	<b>Building_Name</b>	-	name (ID) of the building	-	string	-	-
<i>has</i>	<b>Age</b>	<i>building age</i>	construction period of the building	-	string	-	-
<i>is</i>	<b>Year_Of_Construction</b>	-	year of construction of the building	-	string	-	-
<i>is</i>	<b>Age_Class</b>	<i>building age class [new]</i>	period of years to be defined according to typical construction or building properties (materials, construction principles, building shape, ...)	TABULA	string	-	-
<i>has</i>	<b>From_Year</b>	-	first year of the age class	TABULA	string	-	-
<i>has</i>	<b>To_Year</b>	-	last year of the age class	TABULA	string	-	-
<i>has</i>	<b>Allocation</b>	-	specification of the region the age class is defined for	TABULA	string	-	-
<i>has</i>	<b>Identifier</b>	-	-	SUMO	A,B,C,D	-	-
<i>has</i>	<b>Address</b>	<i>building address [new]</i>	address of the building	-	string	-	-
<i>is</i>	<b>Address_Code</b>	<i>building address [new]</i>	address code of the building	-	string	-	-
<i>is</i>	<b>Building_Number</b>	<i>building address [new]</i>	building number	-	string	-	-
<i>has</i>	<b>First_Part_Of_Postcode</b>	<i>building postcode [new]</i>	first part of the postcode of the building location	SAP	string	-	-
<i>has</i>	<b>Building_Typology</b>	<i>building typology</i>	building typology	-	string	-	-
<i>is</i>	<b>Flat</b>	-	apartment in a building	-	string	-	-
<i>is</i>	<b>Detached_Building</b>	-	small building, without attached buildings	TABULA	string	-	-
<i>is</i>	<b>Semi-Detached_Building</b>	-	small building, with an attached building	TABULA	string	-	-
<i>is</i>	<b>Terraced_Building</b>	-	small building, with two attached buildings	TABULA	string	-	-
<i>is</i>	<b>Row_Building</b>	-	big building, with prevalent horizontal extension	TABULA	string	-	-
<i>is</i>	<b>Tower_Building</b>	-	big building, with prevalent vertical extension	TABULA	string	-	-
<i>is</i>	<b>Courtyard_Building</b>	-	big building having "L" or "U" shape	TABULA	string	-	-
<i>has</i>	<b>Internal_Courtyard_Orientation</b>	-					
<i>has</i>	<b>Type_Of_Construction</b>	<i>type of building construction [new]</i>	type of building construction	-	string	-	-
<i>is</i>	<b>Masonry</b>	-		SAP	string	-	-
<i>is</i>	<b>Å</b>						-
<i>is</i>	<b>Å</b>						-
<i>has</i>	<b>Conservation_State</b>	<i>conservation state</i>	conservation state of the building	-	string	-	-
<i>is</i>	<b>New_Building</b>	-	building to be designed	-	string	-	-

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	<i>is</i>	<b>Existing_Building</b>	-	existing building	-	string	-
	<i>is</i>	<b>Refurbished_Building</b>	-	building to be refurbished	-	string	-
<i>has</i>	<b>Building_Use</b>		<i>building use</i>	use of the building	-	string	"b_use"
<i>has</i>	<b>Building_Geometry</b>		-	geometry of the building	-	-	-
<i>has</i>	<b>Building_Floor_Area</b>		<i>building floor area [new]</i>	sum of the areas of the building storeys	-	real	m <sup>2</sup>
	<i>is</i>	<b>Building_Gross_Floor_Area</b>	<i>building gross floor area [new]</i>	sum of the areas of the building storeys measured from the exterior faces of the exterior walls or from the centerline of walls separating buildings	-	real	m <sup>2</sup>
	<i>is</i>	<b>Building_Net_Floor_Area</b>	<i>building net floor area [new]</i>	sum of the areas of the building storeys measured from wall to wall inside the rooms of the building	-	real	m <sup>2</sup>
<i>has</i>	<b>Building_Volume</b>		<i>building volume [new]</i>	volume of the building	-	real	m <sup>3</sup>
	<i>is</i>	<b>Building_Gross_Volume</b>	<i>building gross volume [new]</i>	volume of the building measured from the exterior faces of the exterior walls and from the exterior face of the roof to the exterior face of the lower floor of the building	-	real	m <sup>3</sup>
	<i>is</i>	<b>Building_Net_Volume</b>	<i>building net volume [new]</i>	volume of the building measured from wall to wall inside the rooms and floor to ceiling inside the rooms of the building	-	real	m <sup>3</sup>
<i>has</i>	<b>Building_Perimeter</b>		<i>building perimeter [new]</i>	perimeter of the building measured from the exterior walls or from the centerline of walls separating buildings	-	real	m
<i>has</i>	<b>Building_Height</b>		<i>building height</i>	height of the building measured from the exterior face of the roof to the exterior face of the lower floor of the building	-	real	m
<i>has</i>	<b>Main_Orientation</b>		<i>building orientation</i>	the direction the main axis of the building	-	string	-
	<i>is</i>	<b>North-South</b>	-	north-south direction	-	string	-
	<i>is</i>	<b>East-West</b>	-	east-west direction	-	string	-
	<i>is</i>	<b>North/West-South/East</b>	-	north/west-south/east direction	-	string	-
	<i>is</i>	<b>North/East-South/West</b>	-	north/east-south/west direction	-	string	-
<i>has</i>	<b>Number_Of_Sides_Sheltered</b>		<i>number of sides sheltered [new]</i>	the number of sides of the building that are protected from the effects by wind, by stuff like trees, or other buildings, etc.	SAP	integer	-
<i>has</i>	<b>Number_Of_Complete_Storeys</b>		<i>number of complete storeys</i>	number of floors/storeys of the building	TABULA*	integer	-
<i>has</i>	<b>Basement</b>		<i>basement [new]</i>	usable part of a building that is situated partly or entirely below ground level	EN ISO 13370	string	-
	<i>has</i>	<b>Basement_Area</b>	<i>basement area [new]</i>	area of the basement	-	real	m <sup>2</sup>
	<i>has</i>	<b>Basement_Height</b>	<i>basement height [new]</i>	height of the basement	-	real	m
<i>has</i>	<b>Ground_Floor</b>		<i>ground floor [new]</i>	usable part of a building that is situated on ground level	-	string	-
	<i>has</i>	<b>Ground_Floor_Area</b>	<i>ground floor area [new]</i>	area of the ground floor	-	real	m <sup>2</sup>
	<i>has</i>	<b>Ground_Floor_Height</b>	<i>ground floor height [new]</i>	height of the ground floor	-	real	m
<i>has</i>	<b>Upper_Floor</b>		<i>upper floor [new]</i>	each floor/storey of the building that is situated above ground floor	-	string	-
	<i>has</i>	<b>Level</b>	<i>level of the upper floor [new]</i>	level of the upper floor (e.g. first floor, second floor, etc.)	-	integer	-
	<i>has</i>	<b>Upper_Floor_Area</b>	<i>upper floor area [new]</i>	area of the upper floor (e.g. area of the first floor, area of the second floor, etc.)	-	real	m <sup>2</sup>
	<i>has</i>	<b>Upper_Floor_Height</b>	<i>upper floor height [new]</i>	height of the upper floor (e.g. height of the first floor, height of the second floor, etc.)	-	real	m

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has	Number_Of_Apartments	<i>number of apartments</i>	number of apartments of the building	TABULA	integer	-	-
has	Percentage_Of_Apartments_In_Use	<i>percentage of apartments in use [new]</i>	percentage of apartments in use	URSOS	real	%	-
has	Number_Of_Rooms	<i>number of rooms</i>	number of rooms in apartment	-	integer	-	-
has	Overall_Window_Surface	<i>overall window surface [new]</i>	overall amount of windows	SAP	string	-	-
has	Overall_Window_Type	-	type of the overall amount of windows	SAP	string	-	-
	is	Double_Overall_Window	overall amount of windows with double glass panel	-	string	-	-
		is	Double_Post_2002_Overall_Window	SAP	string	-	-
		is	Double_Pre_2002_Overall_Window	SAP	string	-	-
	is	Å					-
has	Overall_Window_Area_Type	-	approximate measure of the overall amount of windows vs some hypothetical average	SAP	string	-	-
	is	Typical_Window_Area		SAP	string	-	-
	is	More_Than_Average_Window_Area		SAP	string	-	-
	is	Less_Than_Average_Window_Area		SAP	string	-	-
has	Percentage_Of_Window/Door_Draught_Stripped	<i>window percentage draught proofing</i>		SAP	real	%	-
has	3D_Location	<i>building coordinates</i>	-	-	real	-	-
	has	X-Coordinate	-	-	real	-	-
	has	Y-Coordinate	-	-	real	-	-
	has	Z-Coordinate	-	-	real	-	-
has	Building_Cadastral_Data	-	cadastral data of the building	-	-	-	-
has	Cadastral_Reference	<i>cadastral reference</i>	-	-	-	-	-
has	Number_Of_Cadastral_Rooms	<i>cadastral rooms</i>	-	-	integer	-	-
has	Cadastral_Area	<i>cadastral area</i>	-	-	real	m <sup>2</sup>	-
has	Space	-	enclosed space within a building	ANSI/ASHRAE 90.1	string	-	-
	is	Conditioned_Space	heated and/or cooled space	EN 15603 EN ISO 13790 ANSI/ASHRAE 90.1	string	-	-
has	CS_Geometry	-	geometry of the conditioned space of the building	-	-	-	"cs_geometry"
has	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*	-	-	"cs_envelope"
has	CS_Internal_Partitions	<i>internal partitions</i>	portions of a building within the conditioned space	-	-	-	"cs_internal_partitions"
has	CS_Occupancy	-	characteristics of the conditioned space occupancy	-	-	-	"cs_occupancy"

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
has	CS_Indoor_Air_Temperature	indoor air temperature [new]	arithmetic average of the air temperature and the mean radiant temperature at the centre of a zone or conditioned space	EN ISO 13790*	-	-	"cs_indoor_air_temperature"
has	CS_Ventilation	-	characteristics of the ventilation of the conditioned space	-	-	-	"cs_ventilation"
has	CS_Internal_Heat_Gains	internal heat gains	heat provided within the building by occupants (sensible metabolic heat) and by appliances such as domestic appliances, office equipment, etc., other than energy intentionally provided for heating, cooling or hot water preparation	EN ISO 13790	-	-	"cs_internal_heat_gains"
has	Energy_Quantity_Related_To_Conditioned_Space	-	energy referred to building conditioned space	-	-	-	"energy_quantities"
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	UCS_Geometry	-	geometry of the unconditioned space of the building	-	-	-	-
	has	Unconditioned_Floor_Area	building unconditioned floor area [new]	-	real	m <sup>2</sup>	-
		is	Unconditioned_Gross_Floor_Area	building unconditioned gross floor area [new]	-	real	m <sup>2</sup>
		is	Unconditioned_Net_Floor_Area	building unconditioned net floor area [new]	-	real	m <sup>2</sup>
has	UCS_Envelope	-	the exterior plus semi-exterior portions of a building (separating unconditioned space from external environment or from another unconditioned space)	ANSI/ASHRAE 90.1*	-	-	-
has	Technical_Building_System	-	technical equipment for heating, cooling, ventilation, domestic hot water, lighting and electricity production, composed of different subsystems	EN 15603 EN 15316-1	-	-	"building_system"
has	Energy_Consumption_And_Energy_Saving_Related_To_Building_Services	-	energy referred to building services	-	-	-	"energy_quantities"
has	Energy_Indicator	-	indicator of building energy performance	-	-	-	"energy_quantities"
has	Percentage_Households_Night_Cross_Ventilation	-		-	real	-	-
has	Percentage_Households_Cross_Ventilation_90	-		-	real	-	-
has	Ecological_Material_Percentage	-		-	real	-	-
has	Recycled_Material_Percentage	-		-	real	-	-
has	Housing	-	dwelling tenure and households	-	-	-	"housing"
has	Cost_Related_To_Energy_Performance	-	cost that shall be taken into account for calculation of the cost effectiveness of energy efficiency measures in buildings	EN 15459	-	-	"cost_related_to_energy"
has	Requirement_Related_To_Energy_Performance	-	minimum level of energy performance that is to be achieved to obtain a right or an advantage: e.g. right to build, lower interest rate, quality label	EN 15217*	-	-	"requirement_related_to_energy"

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<i>Name/Acronym</i>		<i>Corresponding Name in D3.1</i>	<i>Description</i>	<i>Reference</i>	<i>Type of data</i>	<i>Unit</i>	<i>Reference to other sheets</i>
<i>has</i>	Energy_Refurbishment	-	renovation of a building leading to a variation in the energy performance	2010/31/EU Directive*	-	-	"energy_refurbishment"