

Standard Table: *building system*

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
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	-	-	-
is	Space_Heating_System	<i>space heating system</i> [new]	technical building system that supplies heat for thermal comfort	EN 15316-1*	string	-	-
has	Space_Heating_System_Type	<i>type of space heating system</i> [new]	type of space heating system	-	string	-	-
	is	Main_Space_Heating_System	main space heating system	-	string	-	-
	is	Secondary_Space_Heating_System	secondary space heating system	-	string	-	-
has	Space_Heating_Fraction_Of_Heat	-	fraction of space heated by the space heating system	-	real	-	-
has	Space_Heating_System_Efficiency	<i>space heating system efficiency</i> [new]	global efficiency of the space heating system	EN 15316-1*	real	%	-
has	Space_Heating_Capacity	<i>heat capacity for space heating</i> [new]	maximum heat addition flowrate of a space heating system under specified conditions	EN 15243*	real	W	-
has	Space_Heating_Energy_Carrier	<i>energy carrier for space heating</i> [new]	substance or phenomenon that can be used to produce heat for space heating	EN 15603* EN 15316-1*	string	-	-
	is	Natural_Gas	-	-	string	-	-
	is	Electricity	-	-	string	-	-
	is	Heat	-	-	string	-	-
	is	A	-	-	string	-	-
has	Space_Heating_System_Responsiveness	<i>system responsiveness of space heating system</i> [new]		SAP	real	-	-
has	Space_Heating_Emission_Subsystem	<i>emission subsystem for space heating</i> [new]	subsystem of the space heating system that provides heat in the conditioned space, including control. It is characterised by non-uniform space temperature distribution, heat emitters embedded in the building structure, control accuracy of the indoor temperature	EN 15316-2-1*	string	-	-
has	Space_Heating_Emission_Subsystem_Type	<i>type of emission subsystem for space heating</i> [new]	type of emission subsystem for space heating	-	string	-	-
has	Space_Heating_Emission_Subsystem_Efficiency	<i>efficiency of the emission subsystem for space heating</i> [new]	ratio between the energy output of the emission subsystem of the space heating system (energy need) and the energy input of the emission subsystem of the space heating system, taking into account the subsystem thermal losses (e.g. non-ideal emission system causing nonuniform temperature distribution and non-ideal room temperature control). The efficiency includes the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Heating_Distribution_Subsystem	<i>distribution subsystem for space heating</i> [new]	subsystem of the space heating system in which energy is transported by a fluid from the heat generation to the heat emission, including control	EN 15316-2-3*	string	-	-
has	Space_Heating_Distribution_Subsystem_Type	<i>type of distribution subsystem for space heating</i> [new]	type of distribution subsystem for space heating	-	string	-	-
has	Space_Heating_Distribution_Subsystem_Efficiency	<i>efficiency of the distribution subsystem for space heating</i> [new]	ratio between the energy output of the distribution subsystem of the space heating system and the energy input of the distribution subsystem of the space heating system, taking into account the subsystem thermal losses and the auxiliary energy	EN 15316-1*	real	-	-
has	Space_Heating_Distribution_Type_Of_Pump	-	type of pump installed in the distribution subsystem for space heating	-	string	-	-
	is	Central_Heating_Pump	-	SAP	string	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Heating_Storage_Subsystem	<i>storage subsystem for space heating</i> [new]	subsystem of the space heating system for storing heat, including control	-	string	-	-
has	Space_Heating_Storage_Subsystem_Type	<i>type of storage subsystem for space heating</i> [new]	type of storage subsystem for space heating	-	string	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Heating_Generation_Subsystem	<i>generation subsystem for space heating</i> [new]	subsystem of the space heating system for heat production	-	string	-	-

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has	Space_Heating_Generation_Subsystem_Efficiency	<i>efficiency of the generation subsystem for space heating</i> [new]	ratio between the energy output of the generation subsystem of the space heating system and the energy input of the generation subsystem of the space heating system (energy use), taking into account the subsystem thermal losses. The efficiency includes the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
is	Domestic_Hot_Water_System	<i>domestic hot water system</i> [new]	heating system that supplies heat to raise the temperature of the cold water to the intended delivery temperature	EN 15316-1*	string	-	-
has	Domestic_Hot_Water_System_Type	<i>type of domestic hot water system</i> [new]	type of domestic hot water system	-	string	-	-
is	Main_Domestic_Hot_Water_System	-	main domestic hot water system	-	string	-	-
is	Secondary_Domestic_Hot_Water_System	-	secondary domestic hot water system	-	string	-	-
has	Domestic_Hot_Water_Fraction_Of_Hot_Water	-	fraction of space covered by the domestic hot water system type	-	real	-	-
has	Domestic_Hot_Water_System_Efficiency	<i>domestic hot water system efficiency</i> [new]	global efficiency of the entire domestic hot water system	EN 15316-1*	real	-	-
has	Domestic_Hot_Water_Heat_Capacity	<i>heat capacity for domestic hot water</i> [new]	maximum heat addition flowrate of a domestic hot water system under specified conditions	EN 15243*	real	W	-
has	Domestic_Hot_Water_Energy_Carrier	<i>energy carrier for domestic hot water</i> [new]	substance or phenomenon that can be used to produce heat for domestic hot water	EN 15603* EN 15316-1*	string	-	-
is	Natural_Gas	-	-	-	string	-	-
is	Electricity	-	-	-	string	-	-
is	Heat	-	-	-	string	-	-
is	A	-	-	-	string	-	-
has	Domestic_Hot_Water_Distribution_Subsystem	<i>distribution subsystem for domestic hot water</i> [new]	distribution pipes installed between the heat generator or hot water storage vessel (if present) and the user outlet or outlets. The domestic hot water distribution system may include a circulation loop and individual sections	EN 15316-3-2	string	-	-
has	Domestic_Hot_Water_Distribution_Subsystem_Type	<i>type of distribution subsystem for domestic hot water</i> [new]	type of distribution subsystem for domestic hot water	-	string	-	-
has	Domestic_Hot_Water_Distribution_Subsystem_Efficiency	<i>efficiency of the distribution subsystem for domestic hot water</i> [new]	ratio between the energy output of the distribution subsystem of the domestic hot water system and the energy input of the distribution subsystem of the domestic hot water system, taking into account the subsystem thermal losses and the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Domestic_Hot_Water_Storage_Subsystem	<i>storage subsystem for domestic hot water</i> [new]	subsystem of the domestic hot water system for storing heat, including control	-	string	-	-
has	Domestic_Hot_Water_Storage_Subsystem_Type	<i>type of storage subsystem for domestic hot water</i> [new]	type of storage subsystem for domestic hot water	-	string	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Domestic_Hot_Water_Generation_Subsystem	<i>generation subsystem for domestic hot water</i> [new]	subsystem of the domestic hot water system for heat production	-	string	-	-
has	Domestic_Hot_Water_Generation_Subsystem_Efficiency	<i>efficiency of the generation subsystem for domestic hot water</i> [new]	ratio between the energy output of the generation subsystem of the domestic hot water system and the energy input of the generation subsystem of the domestic hot water system (energy use), taking into account the subsystem thermal losses. The efficiency includes the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
is	Space_Cooling_System	<i>space cooling system</i> [new]	technical building system that extracts heat for thermal comfort	EN 15603*	string	-	-
is	Split-Multisplit_Cooling_System	-	-	-	string	-	-
is	Air_Distribution_Cooling_System	-	-	-	string	-	-
has	Space_Cooling_System_Type	<i>type of space cooling system</i> [new]	type of space cooling system	-	string	-	-
is	Main_Space_Cooling_System	-	main space cooling system	-	string	-	-

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is	Secondary_Space_Cooling_System	-	secondary space cooling system	-	string	-	-
has	Space_Cooling_Fraction_Of_Cold	-	fraction of space cooled by the space cooling system	-	real	-	-
has	Space_Cooling_System_Efficiency	<i>space cooling system efficiency</i> [new]	global efficiency of the entire space cooling system	EN 15316-1*	real	%	-
has	Space_Cooling_Capacity	<i>cooling capacity for space cooling</i> [new]	maximum heat extraction flowrate of a space cooling system under specified conditions	EN 15243*	real	W	-
has	Space_Cooling_Energy_Carrier	<i>energy carrier for space cooling</i> [new]	substance or phenomenon that can be used by the space cooling system	-	string	-	-
is	Natural_Gas	-	-	-	string	-	-
is	Electricity	-	-	-	string	-	-
is	Å	-	-	-	string	-	-
has	Space_Cooling_Emission_Subsystem	<i>emission subsystem for space cooling</i> [new]	subsystem, where the cooling energy is emitted to the space, inclusive control systems	EN 15240	string	-	-
has	Space_Cooling_Emission_Subsystem_Type	<i>type of emission subsystem for space cooling</i> [new]	type of emission subsystem for space cooling	-	string	-	-
has	Space_Cooling_Emission_Subsystem_Efficiency	<i>efficiency of the emission subsystem for space cooling</i> [new]	ratio between the energy output of the emission subsystem of the space cooling system (energy need) and the energy input of the emission subsystem of the space cooling system, taking into account the subsystem thermal losses (e.g. non-ideal emission system causing nonuniform temperature distribution and non-ideal room temperature control). The efficiency includes the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Cooling_Distribution_Subsystem	<i>distribution subsystem for space cooling</i> [new]	subsystem, where the cooling energy is transported and distributed from the storage subsystem to emission subsystem by a distribution medium, inclusive control systems	EN 15240	string	-	-
has	Space_Cooling_Distribution_Subsystem_Type	<i>type of distribution subsystem for space cooling</i> [new]	type of distribution subsystem for space cooling	-	string	-	-
has	Space_Cooling_Distribution_Subsystem_Efficiency	<i>efficiency of the distribution subsystem for space cooling</i> [new]	ratio between the energy output of the distribution subsystem of the space cooling system and the energy input of the distribution subsystem of the space cooling system, taking into account the subsystem thermal losses and the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Cooling_Storage_Subsystem	<i>storage subsystem for space cooling</i> [new]	storage subsystem of the space cooling system, including control	-	string	-	-
has	Space_Cooling_Storage_Subsystem_Type	<i>type of storage subsystem for space cooling</i> [new]	type of storage subsystem for space cooling	-	string	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Space_Cooling_Generation_Subsystem	<i>generation subsystem for space cooling</i> [new]	subsystem, where the cooling energy is generated by refrigeration units, inclusive control systems	EN 15240	string	-	-
has	Space_Cooling_Generation_Subsystem_Efficiency	<i>efficiency of the generation subsystem for space cooling</i> [new]	ratio between the energy output of the generation subsystem of the space cooling system and the energy input of the generation subsystem of the space cooling system (energy use), taking into account the subsystem thermal losses. The efficiency includes the auxiliary energy	EN 15316-1*	real	-	-
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
is	Ventilation_System	<i>ventilation system</i> [new]	technical building system that supplies or removes air by natural or mechanical means to or from a space	EN 15603* EN 15316-1*	string	-	-
has	Ventilation_System_Type	<i>type of ventilation system</i> [new]	type of ventilation system	-	string	-	-
is	Exhaust_Air_System	-	exhaust air system, continuously operated during heating season	TABULA	string	-	-
is	Balanced_Ventilation_System	-	balanced ventilation system (air exhaust/supply)	TABULA	string	-	-
is	Balanced_Ventilation_System_Heat_Recovery	-	balanced ventilation system (air exhaust/supply) with heat recovery system	TABULA	string	-	-
is	Balanced_Ventilation_System_Preheated	-	balanced ventilation system (air exhaust/supply) with ground heat exchanger and heat recovery	TABULA	string	-	-
has	Ventilation_System_Efficiency	<i>ventilation system efficiency</i> [new]	global efficiency of the ventilation system	-	real	%	-

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Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
has	Ventilation_Electrical_Power_Installed	<i>electrical power installed for ventilation</i> [new]	electrical power of the ventilation system	-	real	W	-
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
is	Lighting_System	<i>lighting system</i> [new]	technical building system that supplies the necessary illumination	EN 15603*	string	-	-
has	Lighting_System_Type	<i>type of lighting system</i> [new]	type of lighting system	-	string	-	-
has	Lighting_System_Efficiency	<i>lighting system efficiency</i> [new]	global efficiency of the lighting system	-	real	%	-
has	Lighting_Electrical_Power_Installed	<i>electrical power installed for lighting</i> [new]	electrical power from the mains supply consumed by the lamps, control gear and control circuit in or associated with the luminaire	EN 15193	real	W	-
has	Number_Of_Fixed_Lighting_Outlets	-		SAP	integer	-	-
has	Number_Of_Fixed_Low_Energy_Outlets	-		SAP	integer	-	-
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
is	Electrical_Appliances	<i>electrical appliances</i> [new]	various appliances consuming energy	EN 15603*	string	-	-
has	Electrical_Appliances_Type	<i>type of electrical appliances</i> [new]	type of electrical appliances	-	string	-	-
has	Electrical_Appliances_Power_Installed	<i>electrical power installed for electrical appliances</i> [new]	electrical power of the electrical appliances	-	real	W	-
has	Final_Energy_Generator	-	generator of final energy	-	string	-	"energy_generator"
has	Energy_Quantity_Related_To_Technical_Building_System	-	energy referred to the technical building systems	-	-	-	"energy_quantities"
is	Hydraulic_System	-		-	string	-	-
has	Water_Flow_Reduction_Element	-		-	string	-	-
has	Double_Discharge_WC_Element	-		-	string	-	-
has	Non-drinkable_Water_Washing_Machine	-		-	string	-	-
has	Non-drinkable_Water_WC	-		-	string	-	-