

Standard Table: local climate

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
Local_Climate		-	climate that defines areas of size up to 10 km linear extension	-	-	-	-
has	Climatic_Parameter	-	climatic parameter	-	-	-	-
is	Air_Temperature	air temperature	the temperature of external air	EN ISO 15927-1	real	°C	-
	is	Air_Temperature_Maximum	the maximum temperature of external air	EN ISO 15927-1	real	°C	-
	is	Air_Temperature_Minimum	the minimum temperature of external air	EN ISO 15927-1	real	°C	-
is	Water_Temperature	-	the temperature of external water	-	real	°C	-
	is	Water_Temperature_Maximum	the maximum temperature of external water	-	real	°C	-
	is	Water_Temperature_Minimum	the minimum temperature of external water	-	real	°C	-
is	Solar_Irradiance	-	radiation power per area generated by the reception of solar radiation on a plane	EN ISO 15927-1*	real	W/m <sup>2</sup>	-
has	Solar_Irradiance_Type	-	type of solar irradiance	-	string	-	-
	is	Direct_Solar_Irradiance	irradiance generated by the reception of solar radiation on a plane from a conical angle which surrounds concentrically the apparent solar disk	EN ISO 15927-1*	string	-	-
	is	Diffuse_Solar_Irradiance	irradiance generated by the reception of scattered solar radiation from the full sky hemisphere on a plane, with the exception of that solid angle which is used to measure the direct solar irradiance	EN ISO 15927-1*	string	-	-
	is	Global_Solar_Irradiance	irradiance generated by reception of solar radiation from the full hemisphere on a plane	EN ISO 15927-1*	string	-	-
has	Solar_Irradiance_On_Surface_Type	-	type of solar irradiance by type of surface on which the solar radiation is received	-	string	-	-
	is	Solar_Irradiance_On_Horizontal_Surface	radiation power per area generated by the reception of solar radiation on a horizontal plane	EN ISO 15927-1*	string	-	-
	is	Solar_Irradiance_On_Not-Horizontal_Surface	radiation power per area generated by the reception of solar radiation on a plane of any tilt and orientation	EN ISO 15927-1	string	-	-
	has	Orientation	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"
is	Solar_Irradiation	-	radiant energy per area received on a surface during a given period of time	EN ISO 15927-1*	real	MJ/m <sup>2</sup>	-
has	Solar_Irradiation_Type	-	type of solar irradiation	-	string	-	-
	is	Direct_Solar_Irradiation	irradiation generated by the reception of solar radiation on a plane from a conical angle which surrounds concentrically the apparent solar disk	EN ISO 15927-1*	string	-	-
	is	Diffuse_Solar_Irradiation	irradiation generated by the reception of scattered solar radiation from the full sky hemisphere on a plane, with the exception of that solid angle which is used to measure the direct solar irradiation	EN ISO 15927-1*	string	-	-
	is	Global_Solar_Irradiation	irradiation generated by reception of solar radiation from the full hemisphere on a plane	EN ISO 15927-1*	string	-	-
has	Solar_Irradiation_On_Surface_Type	-	type of solar irradiation by type of surface on which the solar radiation is received	-	string	-	-
	is	Solar_Irradiation_On_Horizontal_Surface	radiant energy per area received on a horizontal surface during a given period of time	EN ISO 15927-1*	string	-	-
	is	Solar_Irradiation_On_Not-Horizontal_Surface	radiant energy per area received on a surface of defined inclination and orientation during a given period of time	EN ISO 15927-1	string	-	-
	has	Orientation	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"
is	Solar_Declination	solar declination	the angle between the equatorial plane and the straight line joining the centre of the Earth and the Sun	-	real	°	-
is	Wind_Speed	wind speed	the speed of the wind	EN ISO 15927-1	real	m/s	-
is	Wind_Direction	wind direction	the wind direction measured clockwise from North	EN ISO 15927-1	real	°	-
is	Relative_Humidity	relative humidity	ratio of the vapour pressure of moist air to the vapour pressure it would have if it were saturated	EN ISO 15927-1	real	%	-
is	Water_Vapour_Pressure	water vapour pressure	part of the total atmospheric pressure exerted by water vapour	EN ISO 15927-1	real	hPa	-
is	Mixing_Ratio	mixing ratio	ratio of the mass of water vapour to the mass of dry air with which the water vapour is associated	EN ISO 15927-1	real	g/kg	-

Standard Table: *local climate*

Name/Acronym		Corresponding Name in D3.1	Description	Reference	Type of data	Unit	Reference to other sheets
<i>is</i>	<b>Total_Rainfall</b>	<i>rainfall total</i>	equivalent amount of melted solid precipitation	EN ISO 15927-1	real	mm	-
<i>has</i>	<b>Time_Processing_Type</b>	-	type of time processing for the determination of the value	-	string	-	"TIME"
<i>has</i>	<b>Duration</b>	-	period to which the aggregation for the determination of the value refers	-	string	-	"TIME"
<i>has</i>	<b>Climatic_Index</b>	-		-	-	-	-
<i>is</i>	<b>Heating_Degree_Days</b>	<i>heating degree days [new]</i>	the summation, extended to the entire heating season, of the difference between a reference internal temperature (taking into account the internal and the solar heat gains) and a mean daily outside temperature	-	real	-	-
<i>is</i>	<b>Cooling_Degree_Days</b>	<i>cooling degree days [new]</i>		-	real	-	-
<i>is</i>	<b>Rain_Index</b>	<i>rain index [new]</i>		ISO 15927-3	real	-	-