| IFC 2x2 IfcMeasureResour | ra Unite | Init enumers | ations and r | naasiira <i>(</i> | lafinad datat | vnoe | | | IAI MSG / 2003-05-02 |
|---|------------------------------|--------------|--------------------|-------------------|--|--------------------|--|---|--|
| Ref. ISO-1000+A1.1992, 1998. | ce omis, t | int enumera | ations and n | leasure | | lypes | | | IFC_2x2_MeasureTypesEnums_Summary.xls |
| 150 1550 17111002, 1500. | | _ | | | | | | | |
| | | STEP Part41 | | | Unit | | | | Defined measure and |
| Unit in English | Туре | msr value | Unit | Symbol | derivation | IfcSiUnitEnum | IfcUnitEnum | IfcDerivedUnitEnum | value types |
| | | | | | | | | | |
| Absorbed dose, specific energy | SI / Derived | | | 0 | 171.0 | CDAY | ABSORBEDDOSEUNIT | | IfcAbsorbedDoseMeasure |
| impact, kerma, absorbed dose index Acceleration | Derived | | gray | Gy | J/kg m/s² | GRAY | ABSORBEDDOSEUNIT | ACCELERATIONUNIT | IfcAccelerationMeasure |
| Acidity (pH) | Derived | | pН | pН | mol/I | | | ACIDITYUNIT | IfcPHMeasure |
| Activity (of radionuclide) | SI / Derived | | becquerel | Bq | 1/s | BECQUEREL | RADIOACTIVITYUNIT | | IfcRadioActivityMeasure |
| Amount of substance | SI / Basic | ✓ | mole | mol | | MOLE | AMOUNTOFSUBSTANCEUNIT | | IfcAmountOfSubstanceMeasure |
| Angular velocity | Derived | | | | rad / s | | | ANGULARVELOCITYUNIT | IfcAngularVelocityMeasure |
| Area | SI / Derived | ✓ | square metre | m² | m² | SQUARE_METRE | AREAUNIT | | IfcAreaMeasure |
| <u>-</u> | | | | | | | | | IfcBoolean |
| Compound plane angle | Compound | _ | | | degree, min, s | | | COMPOUNDPLANEANGLEUNIT | IfcCompoundPlaneAngleMeasure |
| - | | · / | | | | | | | IfcContextDependentMeasure IfcCountMeasure |
| - | | | | | | | | | IfcDescriptiveMeasure |
| Capacitance | SI / Derived | | farad | F | C/V | FARAD | ELECTRICCAPACITANCEUNIT | | IfcElectricCapacitanceMeasure |
| Celsius temperature | SI / Basic | | degree Celsius | °C | 1 °C = 1 K | DEGREE_CELSIUS | THERMODYNAMICTEMPERATUREUNIT | | IfcThermodynamicTemperatureMeasure |
| Curvatue | Derived | | | | rad / m | | | CURVATUREUNIT | IfcCurvatureMeasure |
| Dose equivalent, dose equivalent | | | | | | | | | |
| index | SI / Derived | | sievert | Sv | J/kg | SIEVERT | DOSEEQUIVALENTUNIT | | IfcDoseEquivalentMeasure |
| Dynamic viscosity | Derived | | | | Pa⋅s | | | DYNAMICVISCOSITYUNIT | IfcDynamicViscosityMeasure |
| Electric charge, quantity of electricity | GL/B | | | С | | COLUCIAS | EL FOTDICCI IA DOEL TUT | | K-Fl-std-Ch-ses-Manage |
| Electric conductance | SI / Derived SI / Derived | | coulomb siemens | S | A·s 1/Ω | COULOMB SIEMENS | ELECTRICCHARGEUNIT ELECTRICCONDUCTANCEUNIT | | IfcElectricChargeMeasure IfcElectricConductanceMeasure |
| Electric conductance Electric current | SI / Basic | _ | ampere | A | 1 / 52 | AMPERE | ELECTRICCONDUCTANCEUNIT | | IfcElectricConductanceWeasure |
| Licotilo darient | Ol / Dasio | | umpere | , n | | 7 WII LIKE | EEEO TRIOGOTRICEI TOTALI | | II CE I COLITO CHI I I I CE I CE I CE I CE I CE I CE I |
| Electric potential, potential | | | | | | | | | |
| difference, tension, electromotive force | SI / Derived | | volt | V | W/A | VOLT | ELECTRICVOLTAGEUNIT | | IfcElectricVoltageMeasure |
| Electric resistance | SI / Derived | | ohm | Ω | V/A | OHM | ELECTRICRESISTANCEUNIT | | IfcElectricResistanceMeasure |
| Energy, work, quantity of heat | SI / Derived | | joule | J | N · m | JOULE | ENERGYUNIT | | IfcEnergyMeasure |
| Force | SI / Derived | | newton | N | kg·m/s² | NEWTON | FORCEUNIT | | IfcForceMeasure |
| Frequency | SI / Derived | | hertz | Hz | 1/s | HERTZ | FREQUENCYUNIT | | IfcFrequencyMeasure |
| Heat flux density | Derived | | | | W / m ² | | | HEATFLUXDENSITYUNIT | IfcHeatFluxDensityMeasure |
| Heating value | Derived | | | | J/kg | | | HEATINGVALUEUNIT | IfcHeatingValueMeasure |
| - | | | | | | | | | IfcIdentifier |
| Illuminance | SI / Derived | | lux | lx | Im / m² | LUX HENRY | ILLUMINANCEUNIT | | IfcIlluminaceMeasure IfcInductanceMeasure |
| Inductance | SI / Derived | | henry | Н | Wb / A | HENRY | INDUCTANCEUNIT | | IfcInductanceweasure IfcInteger |
| (Integer) Count rate | Derived | | | | 1/s | | | INTEGERCOUNTRATEUNIT | IfcIntegerCountRateMeasure |
| Ion concentration | Derived | | | | g/I | | | IONCONCENTRATIONUNIT | IfcIonConcentrationMeasure |
| Isothermal moisture capacity | Derived | | | | m³/kg | | | ISOTHERMALMOISTURECAPACITYUNIT | IfcIsothermalMoistureCapacityMeasure |
| Kinematic viscosity | Derived | | | | m²/s | | | KINEMATICVISCOSITYUNIT | IfcKinematicViscosityMeasure |
| Length | SI / Basic | ✓ | metre | m | | METRE | LENGTHUNIT | | IfcLengthMeasure |
| - | | | | | | | | | IfcLabel |
| Linear force | Derived | | | | N/m | | | LINEARFORCEUNIT | IfcLinearForceMeasure |
| Linear moment | Derived | | | | N·m/m | | | LINEARMOMENTUNIT | IfcLinearMomentMeasure |
| Linear stiffness | Derived | | | | N/m | | | LINEARSTIFFNESSUNIT | IfcLinearStiffnessMeasure |
| Linear velocity | Derived | | | | m/s | | | LINEARVELOCITYUNIT | IfcLinearVelocityMeasure IfcLogical |
| Luminous flux | SI / Derived | | lumen | lm | cd · sr | LUMEN | LUMINOUSFLUXUNIT | | IfcLuminousFluxMeasure |
| Luminous intensity | SI / Basic | ✓ | candela | cd | 00.01 | CANDELA | LUMINOUSINTENSITYUNIT | | IfcLuminousIntensityMeasure |
| Luminous intensity distribution | Derived | | | 1 | cd / lm | | | LUMINOUSINTENSITYDISTRIBUTIONUNIT | IfcLuminoousIntensityDistributionMEasure |
| Magnetic flux | SI / Derived | | weber | Wb | V·s | WEBER | MAGNETICFLUXUNIT | | IfcMagneticFluxMeasure |
| Magnetic flux density | SI / Derived | | tesla | Т | Wb / m² | TESLA | MAGNETICFLUXDENSITYUNIT | | IfcMagneticFluxDensityMeasure |
| Mass | SI / Basic | √ | gram | g (kg) | | GRAM | MASSUNIT | | IfcMassMeasure |
| Mass density | Derived | | | | kg / m² | | | MASSDENSITYUNIT | IfcMassDensityMeasure |
| Mass flow rate | Derived | | | | kg/s | | | MASSFLOWRATEUNIT | IfcMassFlowRateMeasure |
| Mass per length | Derived | | | | kg/m | | | MASSPERLENGTHUNIT | IfcMassPerLengthMeasure |
| Modulus of elasticity Modulus of linear subgrade reaction | Derived Derived | | | | N / m ² N / m ² | | | MODULUSOFELASTICITYUNIT MODULUSOFLINEARSUBGRADEREACTIONUNIT | lfcModulusOfElasticityMeasure lfcModulusOfLinearSubgradeReactionMeasure |
| Modulus of ilinear subgrade reaction Modulus of rotational subgrade reaction | | | | | N·m/m² | | | MODULUSOFRINEARSUBGRADEREACTIONUNIT | |
| Modulus of subgrade reaction | Derived | | | | N/m³ | | | MODULUSOFSUBGRADEREACTION | IfcModulusOfSubgradeReactionMeasure |
| Moisture diffusivity | Derived | | | | m ³ / s | | | MOISTUREDIFFUSIVITYUNIT | IfcMoistureDiffusivityMeasure |
| Molecular weight | Derived | | | | g / mol | | | MOLECULARWEIGHTUNIT | IfcMolecularWeightMeasure |
| Moment of inertia | Derived | | | | m ⁴ | | | MOMENTOFINERTIAUNIT | IfcMomentOfInertiaMeasure |
| - | | | | | | | | | IfcMonetaryMeasure |
| - | | | | | | | | | IfcNormalisedRatioMeasure |
| - | | ✓ | | | | | | | IfcNumericMeasure |
| <u>-</u> | | ✓ | | | | | | | IfcParameterValue |
| Planar force | Derived | , | | ļ | N / m ² | DABIAN | DI ANICANIOI ELINIT | PLANARFORCEUNIT | IfcPlanarForceMeasure |
| Plane angle | SI / Derived | ✓ | radian | rad | m / m = 1 | RADIAN | PLANEANGLEUNIT | | IfcPlaneAngleMeasure |

| (Positive length) | | ✓ | | m | | | LENGTHUNIT | | IfcPositiveLengthMeasure |
|-------------------------------|--------------|---|-------------|-----|--------------------|-------------|------------------------------|---------------------------------|---------------------------------------|
| Positive plane angle) | | ✓ | | rad | | | PLANEANGLEUNIT | | IfcPositivePlaneAngleMeasure |
| | | ✓ | | | | | | | IfcPositiveRatioMeasure |
| Power | SI / Derived | | watt | W | J/s | WATT | POWERUNIT | | IfcPowerMeasure |
| Pressure, stress | SI / Derived | | pascal | Pa | N / m ² | PASCAL | PRESSUREUNIT | | IfcPressureMeasure |
| - | | ✓ | | | | | | | IfcRatioMeasure |
| | | | | | | | | | IfcReal |
| Rotational frequency | Derived | | | | cycles/s | | | ROTATIONALREQUENCYUNIT | IfcFrequencyMeasure |
| Rotational mass | Derived | | | | kg ⋅ m² | | | ROTATIONALMASSUNIT | IfcRotationalMassMeasure |
| Rotational stiffness | Derived | | | | N · m / rad | | | ROTATIONALSTIFFNESSUNIT | IfcRotationalStiffnessMeasure |
| Sectional area integral | Derived | | | | m ⁵ | | | SECTIONALAREAINTEGRALUNIT | IfcSectionalAreaIntegralMeasure |
| Section modulus | Derived | | | | m ³ | | | SECTIONMODULUSUNIT | IfcSectionModulusMeasure |
| Shear modulus | Derived | | | | N / m ² | | | SHEARMODULUSUNIT | IfcShearModulusMeasure |
| Solid angle | SI / Derived | ✓ | steradin | sr | $m^2 / m^2 = 1$ | STERADIAN | SOLIDANGLEUNIT | | IfcSolidAngleMeasure |
| Specific heat capacity | Derived | | | | J/kg·K | | | SPECIFICHEATCAPACITYUNIT | IfcSpecificHeatCapacityMeasure |
| Temperature gradient | | | | | K/m | | | TEMPERATUREGRADIENTUNIT | IfcTemperatureGradientMeasure |
| - | | | | | | | | | IfcText |
| Thermal admittance | Derived | | | | W / m² · K | | | THERMALADMITTANCEUNIT | IfcThermalAdmittanceMeasure |
| Thermal conductivity | Derived | | | | W/m·K | | | THERMALCONDUCTIVITYUNIT | IfcThermalConductivityMeasure |
| Thermal expansion coefficient | | | | | 1 / K | | | THERMALEXPANSIONCOEFFICIENTUNIT | IfcThermalExpansionCoefficientMeasure |
| Thermal resistance | Derived | | | | m² · K/W | | | THERMALRESISTANCEUNIT | IfcThermalResistanceMeasure |
| Thermal transmittance | Derived | | | | W/m²·K | | | THERMALTRANSMITTANCEUNIT | IfcThermalTransmittanceMeasure |
| Thermodynamic temperature | SI / Basic | ✓ | kelvin | K | | KELVIN | THERMODYNAMICTEMPERATUREUNIT | | IfcThermodynamicTemperatureMeasure |
| Time - | SI / Basic | ✓ | second | S | | SECOND | TIMEUNIT | | IfcTimeMeasure |
| | | | | | | | | | IfcTimeStamp |
| Torque | Derived | | | | Nm | | | TORQUEUNIT | IfcTorqueMeasure |
| /apor permeability | Derived | | | | kg/s·m·Pa | | | VAPORPERMEABILITYUNIT | IfcVaporPermeabilityMeasure |
| /olume | SI / Derived | ✓ | cubic metre | m³ | m³ | CUBIC_METRE | VOLUMEUNIT | | IfcVolumeMeasure |
| Volumetric flow rate | Derived | | | | m³ / s | | | VOLUMETRICFLOWRATEUNIT | IfcVolumetricFlowRateMeasure |
| Warping constant | | | | | m ⁶ | | | WARPINGCONSTANTUNIT | IfcWarpingConstantMeasure |
| Varping moment | Derived | | | | N' ⋅ m² | | | WARPINGMOMENTUNIT | IfcWarpingMomentMEasure |
| - | | | | | | | USERDEFINED | USERDEFINED | |