**«union»**
**EmissionSourceGeometry**
+ GM_Point: GM_Point
+ GM_Curve: GM_Curve
+ GM_Surface: GM_Surface

**«dataType»**
**NEN3610ID**
+ namespace: CharacterString
+ localId: CharacterString
+ versionId: CharacterString [0..1]

**«dataType»**
**EmissionSourceCharacteristics**
+ heatContent: HeatContent
+ emissionHeight: Real
+ spread: Real [0..1]
+ diurnalVariation: DiurnalVariation [0..1]

+connection 0..*
+building 0..1

**«dataType»**
**SpecifiedHeatContent**
+ value: Real

**«dataType»**
**HeatContent**

**«dataType»**
**CalculatedHeatContent**
+ emissionTemperature: Real [0..1]
+ outflowDiameter: Real
+ outflowVelocity: Real
+ outflowDirection: OutflowDirectionType
+ outflowVelocityType: OutflowVelocityType

*GeoObject*
**«featureType»**
**Building**
+ label: CharacterString [0..1]
+ height: Real
+ geometry: GM_Surface
**«identificatie»**
+ identifier: NEN3610ID

**«dataType»**
**AeriusCalculatorMetadata**
+ project: ProjectMetadata
+ situation: SituationMetadata [0..1]
+ calculation: CalculationMetadata [0..1]
+ version: VersionMetadata [0..1]

**«dataType»**
**VersionMetadata**
+ aeriusVersion: CharacterString
+ databaseVersion: CharacterString

**«dataType»**
**SituationMetadata**
+ name: CharacterString [0..1]
+ reference: CharacterString [0..1]
+ situationType: SituationType
+ nettingFactor: Real [0..1]

**«dataType»**
**CalculationMetadata**
+ type: CalculationType
+ substance: Substance [1..*]
+ resultType: ResultType [1..*]
+ maximumRange: Real [0..1]
+ researchArea: Boolean [0..1]
+ monitorSrm2Year: Integer [0..1]

**«dataType»**
**ProjectMetadata**
+ year: Integer
+ temporaryPeriod: Integer [0..1]
+ permitCalculationRadiusType: CharacterString [0..1]
+ name: CharacterString [0..1]
+ corporation: CharacterString [0..1]
+ facilityLocation: Address [0..1]
+ description: CharacterString [0..1]

**«dataType»**
**Address**
+ streetAddress: CharacterString
+ postcode: CharacterString
+ city: CharacterString

**«dataType»**
**StandardDiurnalVariation**
+ standardType: CharacterString

**«dataType»**
**DiurnalVariation**

**«dataType»**
**ReferenceDiurnalVariation**

+connection 0..*
+customDiurnalVariation 1

**«dataType»**
**Definitions**
+ customDiurnalVariation: CustomDiurnalVariation [0..*]

**«type»**
**CustomDiurnalVariation**
+ label: CharacterString [0..1]
+ customType: CharacterString
+ value: Integer [1..*]

**«enumeration»**
**Substance**

NH3
NOX
NO2
PM10
PM25
EC

**«enumeration»**
**TimeUnit**

HOUR
DAY
MONTH
YEAR

**«enumeration»**
**ResultType**

DEPOSITION
CONCENTRATION
EXCEEDANCE_DAYS
EXCEEDANCE_HOURS

**«enumeration»**
**CalculationType**

PERMIT
NATURE_AREA
RADIUS
CUSTOM_POINTS

**«enumeration»**
**StandardVehicleType**

LIGHT_TRAFFIC
NORMAL_FREIGHT
HEAVY_FREIGHT
AUTO_BUS

**«enumeration»**
**RoadSideBarrierType**

SCREEN
WALL

**«enumeration»**
**RoadElevation**

NORMAL
NORMAL_DYKE
STEEP_DYKE
VIADUCT
TUNNEL

**«enumeration»**
**MaritimeShippingMovementType**

INLAND
MARITIME

**«enumeration»**
**OutflowDirectionType**

VERTICAL
HORIZONTAL

**«enumeration»**
**RejectionGrounds**

NONE
COMPLIANCE_CRITERION
EXPOSURE_CRITERION
OTHER

**«enumeration»**
**MonitorSubstance**

NONE
PM10_ONLY
ALL

**«enumeration»**
**WaterwayDirectionType**

IRRELEVANT
UPSTREAM
DOWNSTREAM

**«enumeration»**
**InlandRouteDirectionType**

ARRIVE
DEPART

**«enumeration»**
**TreeProfile**

NONE_OR_FEW
SEPARATED
PACKED

**«enumeration»**
**SpeedProfile**

URBAN_TRAFFIC_STAGNATING
URBAN_TRAFFIC_NORMAL
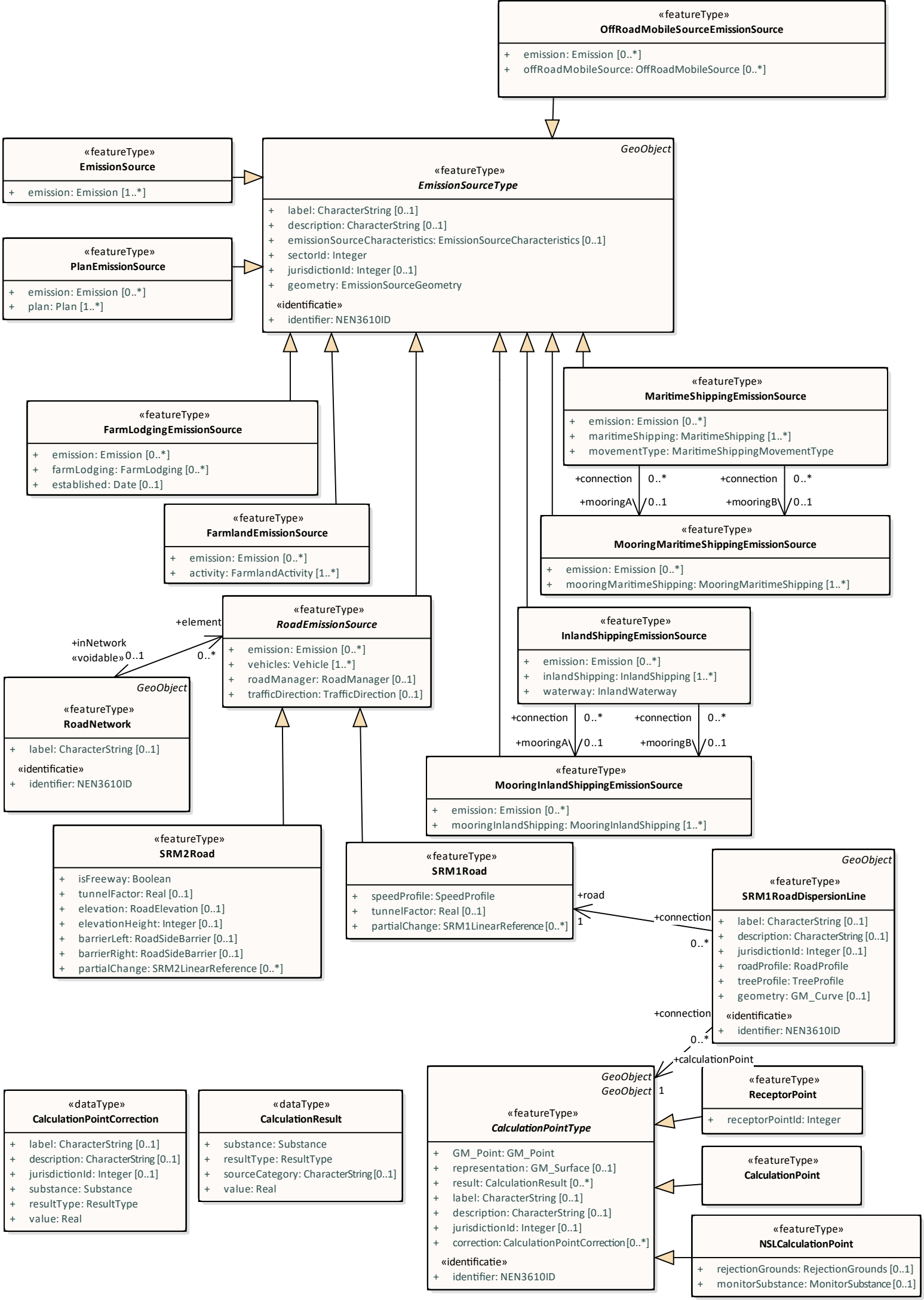URBAN_TRAFFIC_FREE_FLOW
NON_URBAN_TRAFFIC

**«enumeration»**
**RoadProfile**

WIDE_STREET_CANYON
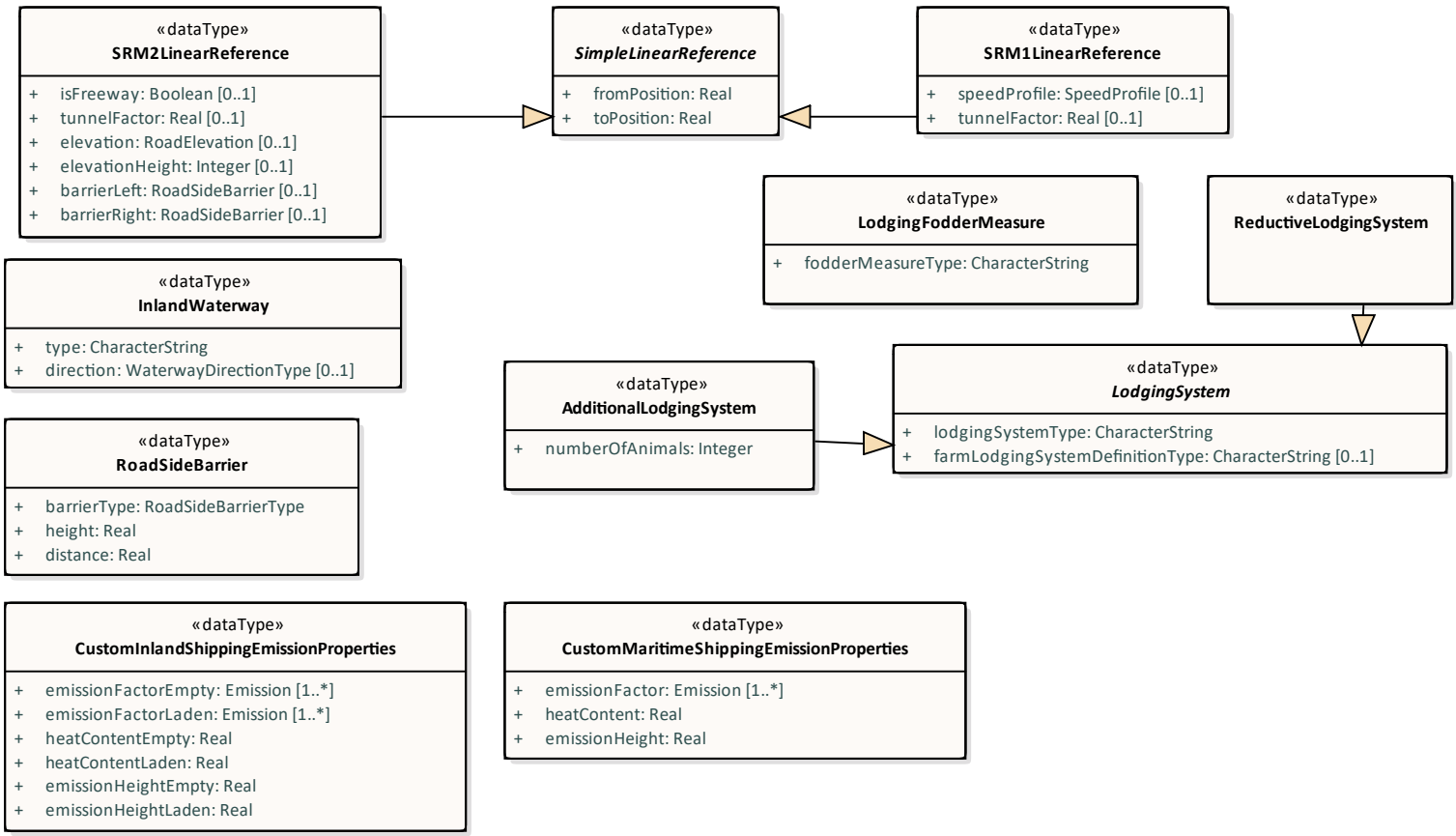NARROW_STREET_CANYON
ONE_SIDE_BUILDINGS
OTHER

**«enumeration»**
**RoadManager**

MUNICIPALITY
PROVINCE
STATE
WATER_AUTHORITY
PRIVATE

**«enumeration»**
**SituationType**

REFERENCE
PROPOSED
TEMPORARY
NETTING

**«enumeration»**
**TrafficDirection**

BOTH
A_TO_B
B_TO_A

**«enumeration»**
**OutflowVelocityType**

ACTUAL_FLOW
NORMALISED_FLOW

**«dataType»**
**SRM2LinearReference**

| |
|---|
| + isFreeway: Boolean [0..1] |
| + tunnelFactor: Real [0..1] |
| + elevation: RoadElevation [0..1] |
| + elevationHeight: Integer [0..1] |
| + barrierLeft: RoadSideBarrier [0..1] |
| + barrierRight: RoadSideBarrier [0..1] |

**«dataType»**
*SimpleLinearReference*

| |
|---|
| + fromPosition: Real |
| + toPosition: Real |

**«dataType»**
**SRM1LinearReference**

| |
|---|
| + speedProfile: SpeedProfile [0..1] |
| + tunnelFactor: Real [0..1] |

**«dataType»**
**LodgingFodderMeasure**

| |
|---|
| + fodderMeasureType: CharacterString |

**«dataType»**
**ReductiveLodgingSystem**

**«dataType»**
**InlandWaterway**

| |
|---|
| + type: CharacterString |
| + direction: WaterwayDirectionType [0..1] |

**«dataType»**
**AdditionalLodgingSystem**

| |
|---|
| + numberOfAnimals: Integer |

**«dataType»**
*LodgingSystem*

| |
|---|
| + lodgingSystemType: CharacterString |
| + farmLodgingSystemDefinitionType: CharacterString [0..1] |

**«dataType»**
**RoadSideBarrier**

| |
|---|
| + barrierType: RoadSideBarrierType |
| + height: Real |
| + distance: Real |

**«dataType»**
**CustomInlandShippingEmissionProperties**

| |
|---|
| + emissionFactorEmpty: Emission [1..*] |
| + emissionFactorLaden: Emission [1..*] |
| + heatContentEmpty: Real |
| + heatContentLaden: Real |
| + emissionHeightEmpty: Real |
| + emissionHeightLaden: Real |

**«dataType»**
**CustomMaritimeShippingEmissionProperties**

| |
|---|
| + emissionFactor: Emission [1..*] |
| + heatContent: Real |
| + emissionHeight: Real |

**«dataType»**
**CustomOffRoadMobileSource**
+ emission: Emission [1..*]
+ emissionSourceCharacteristics: EmissionSourceCharacteristics
+ offRoadVehicleSpecification: OffRoadVehicleSpecification [0..1]

**«dataType»**
**StandardOffRoadMobileSource**
+ offRoadMobileSourceType: CharacterString
+ literFuelPerYear: Integer [0..1]
+ operatingHoursPerYear: Integer [0..1]
+ literAdBluePerYear: Integer [0..1]

**«dataType»**
**StandardVehicle**
+ stagnationFactor: Real
+ vehicleType: StandardVehicleType
+ maximumSpeed: Integer [0..1]
+ strictEnforcement: Boolean [0..1]

**«dataType»**
**SpecificVehicle**
+ vehicleType: CharacterString

**«dataType»**
**Plan**
+ description: CharacterString
+ amount: Integer
+ planType: CharacterString

**«dataType»**
**OffRoadMobileSource**
+ description: CharacterString

**«dataType»**
**Vehicle**
+ vehiclesPerTimeUnit: Real
+ timeUnit: TimeUnit

**«dataType»**
**CustomVehicle**
+ description: CharacterString
+ emission: Emission [1..*]

**«dataType»**
**FarmlandActivity**
+ emission: Emission [1..*]
+ activityType: CharacterString

**«dataType»**
**EmissionValueType**

**«dataType»**
**Emission**
+ substance: Substance
+ value: Real

**«dataType»**
**StandardMaritimeShipping**
+ shipType: CharacterString

**«dataType»**
**MaritimeShipping**
+ description: CharacterString
+ shipsPerTimeUnit: Integer
+ timeUnit: TimeUnit

**«dataType»**
**CustomMaritimeShipping**
+ emissionProperties: CustomMaritimeShippingEmissionProperties
+ grossTonnage: Real

**«dataType»**
**FarmLodging**
+ numberOfAnimals: Integer

**«dataType»**
**CustomFarmLodging**
+ animalType: CharacterString [0..1]
+ description: CharacterString
+ emissionFactor: Emission [1..*]

**«dataType»**
**StandardFarmLodging**
+ farmLodgingSystemDefinitionType: CharacterString [0..1]
+ farmLodgingType: CharacterString
+ fodderMeasure: LodgingFodderMeasure [0..*]
+ lodgingSystem: LodgingSystem [0..*]

**«dataType»**
**InlandShipping**
+ description: CharacterString
+ numberOfShipsAtoBperTimeUnit: Integer
+ numberOfShipsBtoAperTimeUnit: Integer
+ percentageLadenAtoB: Integer
+ percentageLadenBtoA: Integer
+ timeUnitShipsAtoB: TimeUnit
+ timeUnitShipsBtoA: TimeUnit

**«dataType»**
**MooringMaritimeShipping**
+ description: CharacterString
+ averageResidenceTime: Integer
+ shorePowerFactor: Real
+ shipsPerTimeUnit: Integer
+ timeUnit: TimeUnit

**«dataType»**
**MooringInlandShipping**
+ description: CharacterString
+ averageResidenceTime: Integer
+ shorePowerFactor: Real
+ shipsPerTimeUnit: Integer
+ timeUnit: TimeUnit
+ percentageLaden: Integer

**«dataType»**
**StandardInlandShipping**
+ shipType: CharacterString

**«dataType»**
**CustomInlandShipping**
+ emissionPropertiesAtoB: CustomInlandShippingEmissionProperties
+ emissionPropertiesBtoA: CustomInlandShippingEmissionProperties

**«dataType»**
**StandardMooringMaritimeShipping**
+ shipType: CharacterString

**«dataType»**
**StandardMooringInlandShipping**
+ shipType: CharacterString

**«dataType»**
**CustomMooringInlandShipping**
+ emissionProperties: CustomInlandShippingEmissionProperties

**«dataType»**
**CustomMooringMaritimeShipping**
+ emissionProperties: CustomMaritimeShippingEmissionProperties

## «dataType»
### ConsumptionOffRoadVehicleSpecification

+ emissionFactor: Emission [1..*]
+ energyEfficiency: Integer
+ consumption: Integer

## «dataType»
### OffRoadVehicleSpecification

+ fuelType: CharacterString

## «dataType»
### OperatingHoursOffRoadVehicleSpecification

+ emissionFactor: Emission [1..*]
+ load: Integer
+ power: Integer
+ operatingHours: Integer

---

*GeoObject*

## «featureType»
### SRM1RoadMeasureArea

+ label: CharacterString [0..1]
+ description: CharacterString [0..1]
+ jurisdictionId: Integer [0..1]
+ measure: SRM1RoadMeasure [1..*]
+ geometry: GM_Surface

«identificatie»
+ identifier: NEN3610ID

## «dataType»
### SRM1RoadMeasure

+ vehicleType: StandardVehicleType
+ speedProfile: SpeedProfile
+ reduction: EmissionReduction [1..*]

## «dataType»
### EmissionReduction

+ substance: Substance
+ factor: Real