

About CadnaA



Version 2026 (64 Bit) (build: 213.5606)

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License Number: L42947

Product: City Professional X L

Expiration Date: none

Customer Number: 27433

Licensee:

Kajaja Acoustics OÜ, Tallinn, Estonia

OK

Configuration of Calculation

?

×

Reflection	Meteorology	Industry	Road	Railroad		
Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.

Template:

-

Open Configuration...

Save Configuration...

Standards / Guidelines:

Industry:

CNOSSOS-EU

▼

Road:

NMPB-Routes-96

▼

Railroad:

SRM II

▼

Aircraft:

▼

OK

Cancel

Help

Configuration of Calculation?×

Reflection	Meteorology	Industry	Road	Railroad		
Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.

Max. Error (dB):

0.1

Max. Search Radius (m):

5000.0

Min. Dist Source to Rcvr (m):

0.0

☒ Extrapolate Grid 'under' Buildings

Propagation Coeff. Uncertainty:

3*log10(d/10)

☐ Angle Scan Method (exp!!!)

Number of Angle Segments:

100

Reflection Depth:

0

Grid Interpolation:

(none) ▾

Max. Diff. Corners (dB):

10.0

Max. Diff. Center (dB):

0.10

☐ Fast Screening

☐ Mithra Compatibility

OK

Cancel

Help

Configuration of Calculation?×

Reflection		Meteorology	Industry	Road	Railroad	
Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Raster Factor:		0.50	Projection of: ☒ Line Sources			
Max. Length of Section (m):		1000.0	☒ Area Sources			
Min. Length of Section (m):		1.0	☐ Projection at Terrain Model			
Min. Length of Section (%):		0.0	Max Dist. Source-Rcvr (m):		2000.00	
☐ Partition acc. to RBLärm-92 Proc. 1			Search Radius Source (m):		100.00	
			Search Radius Receiver (m):		100.00	
			☒ Min. Lengths are considered by projection			

OK

Cancel

Help

Configuration of Calculation
?
X

Reflection

Meteorology

Industry

Road

Railroad

Standards

General

Partition

Ref. Time

Eval.Param.

DTM

Ground Abs.

Allocation Hours - Periods Day, Evening, Night

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	00
N	N	N	N	N	N	N	D	D	D	D	D	D	D	D	D	D	D	E	E	E	E	N	

Daytime Penalty (dB):

0.0

☐
Recr. Time Penalty only for:

(ohne Nutzung)

KU Kurgebiet

WR reines Wohngebiet

WA allg. Wohngebiet

MI Mischgebiet

GE Gewerbegebiet

Evening/Recr. Time Penalty (dB):

5.0

Night-time Penalty (dB):

10.0

OK

Cancel

Help

Configuration of Calculation

? X

Reflection		Meteorology		Industry		Road		Railroad	
Standards	General	Partition	Ref. Time	Eval.Param.		DTM		Ground Abs.	

Evaluation Parameters:

	Type		Name		Unit	Expression	
1:	Ld	☒	Ld	☐			>>
2:	Le	☒	Le	☐			>>
3:	Ln	☒	Ln	☐			>>
4:	Lden	☒	Lden	☐			>>

DIN 4109 Version:

2018

OK

Cancel

Help

Configuration of Calculation?×

Reflection	Meteorology	Industry	Road	Railroad
Standards	General	Partition	Ref. Time	Eval.Param.
			DTM	Ground Abs.

Standard Height (m):

Model of Terrain:

☒ Triangulation

☐ Explicit Edges Only

☐ Obj with "Ground at every point" influence DTM

☐ Search Contour Lines (Average)

☐ Search Contour Lines (Local Inclined Plane)

Search Radius for Contour Lines (m):

☒ Lift 'Sources under Ground' to Ground-Niveau

☐ Area sources with constant relative height follow terrain

Configuration of Calculation?×

Reflection	Meteorology	Industry	Road	Railroad
Standards	General	Partition	Ref. Time	Eval.Param.
			DTM	Ground Abs.

Default Ground Absorption G:

Use map of ground absorption

Resolution (m):

☒ Roads / Parking Lots are reflecting (G==0)

☐ Buildings are reflecting (G==0)

☐ Railways are absorbing (G==1)

Configuration of Calculation?×

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Reflection	Meteorology	Industry	Road	Railroad		

max. Order of Reflection:

Conditions for Calculation of Reflection:

Search Radius Source (m):	100.00	Receiver:	100.00
Max. Distance Source - Receiver (m):	1000.00	Interpolate from:	1000.00
Min. Distance Receiver - Reflector (m):	1.00	Interpolate to:	1.00
Min. Distance Source - Reflector (m):	0.10		

Configuration of Calculation
?
X

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Reflection	Meteorology		Industry	Road	Railroad	

Temperature (°C): 10

rel. Humidity (%): 70

Wind Speed for Dir. (m/s): 3.0

Meteorology...

Direction of North:

☒ Get from first North Arrow Symbol

☐ Angle (°): 0.0

OK Cancel Help

Configuration of Calculation
?
X

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Reflection	Meteorology		Industry	Road	Railroad	

Temperature (°C): 10

rel. Humidity (%): 70

Meteorology
X

Country: France

Percentage of 'favorable conditions' (default)

	20°	40°	60°	80°	100°	120°	140°	160°	180°	200°	220°	240°	260°	280°	300°	320°	340°	360°
Day:	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Evening:	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Night:	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

☐ Evening Values = Day Values

OK Cancel Help

☒ Get from first North Arrow Symbol

☐ Angle (°): 0.0

OK Cancel Help

Configuration of Calculation

?

✕

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.	Reflection
Meteorology		Industry		Road		Railroad	
Calculation acc. to:			2021/1226 EU				
Lateral Diffraction:			Point Sources	if Distance smaller (m):		1000	
☒ Obstacles within Area Src do not shield							
☐ Src. in Building/Cylinder do not shield							
OKCancelHelp							

Configuration of Calculation?×

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Reflection	Meteorology	Industry	Road	Railroad		

Calculation acc to NMPB

☐ Calc exactly one Reflection Order

☐ Use Multiple Reflection Correction

☒ Calc outer Lanes separately

Emission Calculation:

NMPB

Meteorology...

OK

Cancel

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Configuration of Calculation
?
X

Standards	General	Partition	Ref. Time	Eval.Param.	DTM	Ground Abs.
Reflection	Meteorology	Industry	Road	Railroad		

Calculation acc. to SRM II (Reken- en Meetvoorschriften Railverkeerslawaai '96)

☐ All Emissions at 0.50 m above railhead

Railway Correction (dB):

☒ Use Non-Standard Reference Time D/E/N = 12/4/8 (see Ref.Time Tab)

☒ Air Absorption acc. to ISO 9613-1

☒ Meteorological Correction Cmet acc. to ISO 9613-2

Other Properties: See Industry.

OK
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Help

Receiver Grid
X

Receiver Spacing:

dx (m):

dy (m):

Receiver Height (m):

☐ Absolute

☒ Exclude Sound Sources

☒ Exclude Buildings

☐ Use Height of Buildings

☒ for all Variants

OK
Cancel
Help
Options >>