Delivery guide for Environmental Noise Data

Submission of DF4_DF8: Strategic noise maps for major roads, major

railways, major airports and agglomerations



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2.0	Núria Blanes, Maria José Ramos, Miquel Sáinz de la Maza, Jaume Fons, Roman Ortner, Colin Nugent, Martin Adams	17.11.2017	Update of the delivery guidelines for DF4_8, including the modifications introduced in 2017 in the ENDRM delivery system in Reportnet.
3.0	Núria Blanes, Eulàlia Peris	12.12.2018	Update of the delivery guidelines for DF4_8 according to updated QA/QC implemented in Reportnet

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1 Outline of the delivery

This reporting obligation consists on the provision of data related to "Strategic noise maps" data specifications as listed in annex VI for all major roads, railways, airports and agglomerations with the following thresholds:

- Agglomerations>100,000 inhabitants.
- Major civil airport > 50,000 movements/year
- All major roads >3 million vehicles/year
- All major railways >30,000 trains/year"

Information on strategic noise maps consist on 4 main blocks of information:

- 1. Statistical data consisting on:
 - People exposed to different noise bands by different noise sources by L_{den} and L_{night} , and calculations differentiated by exposure to major sources, to most exposed façade, to quiet façade and also areas and dwellings exposed. Details can be found in the description of the reporting obligation in Reportnet- <u>http://rod.eionet.europa.eu/obligations/369</u>- and in chapter 4 of this Annex)
 - It is recommended to provide the information corresponding to number of people exposed to the different noise bands and to dwellings rounded to the nearest hundred (solely), in order to avoid potential confusions.
 - Unique codification
- 2. Spatial data consisting on:
 - Noise contour maps focused on the noise emission sources (obligatory in the case of major roads, major railways and major airports, and voluntary in the case of the agglomerations)
 - Quiet areas inside and outside agglomerations

(Details can be found in chapter 5 of the current Annex)

- 3. Supplementary information (if needed), detailed in chapter 6 of this Annex.
- 4. Metadata (how the data provided has been created and constraints of this data: a detailed list of information that should be provided is specified in chapter 7).

So, it is expected that each subfolder created to deliver data concerning this reporting obligation will contain at least, statistical and spatial data, both with the corresponding metadata files. How data should be delivered through Reportnet is explained in a separate chapter in the main document.

It is highly recommended that the data provided follow the templates that have been specially created for this purpose, with specific quality check rules designed for helping the country to report the data following the specifications and ensuring the data coherence and at the same time, to facilitate the manual quality check developed by several EU institutions.

The analysis of the quality of the data as well as of its completeness will be only done for the information requested as compulsory, which will be basis to evaluate the compliance of a specific country. The rest of automatic quality check rules have been introduced in order to guide the reporter.

To be highlighted that unique codes are highly relevant in order to ensure traceability as well as the linkage between different dataflows or different types of information in the same dataflow. The unique codes which are used to perform the quality check rules are available in Reportnet's Content Registry, at <a href="http://cr.eionet.europa.eu/folder.action?uri=http://cr.eione

2 Data submission process

The process to submit the requested information is very simple:

- 1. Download the template provided for tabular data
- 2. Fill in the template in your personal computer
- 3. Upload the filled in template into the Reportnet system
- 4. Run the quality check rules and correct the data if necessary (if this is the case, go back to step 2)
- 5. Download the template provided for spatial data
- 6. Upload the requested spatial data as separate files or in a ZIP file using the "Add zip file" button.
- 7. Complete the task (=equivalent to submit the information)

Figure 1. Overview of the Reporting process



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Chapter 3 contains a check list of what needs to be done in order to fulfil the requests of the END for this specific deliverable, to ensure that the data provided is compliant with the minimum requirements specified in this Annex.

The reporter would be able to find the instructions and the explanation of the detailed data to be delivered for each concept specified in the END in chapter 4 (concerning the statistical information to be reported) and in chapter 5 (concerning the spatial information to be delivered).

Chapter 6 deals with the supplementary information that can be provided, and chapter 7 details the content of the metadata files to be provided for each document delivered.

Finally, in chapter 8, details concerning the naming conventions for the files that should be uploaded in Reportnet are proposed and chapter 9 contain the general quality check process followed concerning this dataflow.

3 Check list for the data reporters

This section contains a list to be checked by the (experienced) noise information reporters through Reportnet, to be sure that the data reported accomplish the minimum requirements specified in this annex.

Data preparation:

- Have you downloaded the most recent template for DF_4_8 from the Reportnet data dictionary (9 tables)? <u>http://dd.eionet.europa.eu/datasets/3300</u>
- Is your data given in the correct units?
- Is your data plausible and complete?
- All the cells are fulfilled and where no data should be provided (due to data not available or data not applicable), have they been fulfilled using the explanatory values "-1" and "-2"?
- Have you inserted your country data into the template (xls or xml)?
- Do you provide a metadata file / supplementary report and do they contain all necessary information (e.g. description of data actuality)?
- Does the supplementary report include a short summary in English?
- Do the shapefiles include a projection-file?
- Do the shapefiles fulfil the requirements (names and values of the attributes, etc.)?
- Have you completed all the metadata files for all the information you need to provide for this deliverable?

Quiet areas data:

- Do you have quiet areas? Inside agglomerations? Outside agglomerations?
- Have they been delimited and reported?
- Do the metadata file / supplementary report contain a description of the methodology how the quiet areas have been defined?

File names:

- Do the file names follow the naming convention proposed? And if the naming convention is not available, does the name indicate the content of the file?

Uploading process:

- Be sure to select the folder corresponding to the reporting period, e.g. 2017.
- Have you delivered the data through Reportnet? If this is the case, have you log in, created a new envelope, entered the envelope and activated the task?
- Have you uploaded the filled template and GIS files with the corresponding metadata file, and the supplementary reports (in case it is needed)?
- Have you run the automatic QA for all the tables?
- If necessary (because the automatic QA is not passed successfully for all tables) have you corrected the data and uploaded the correct tables again?
- Have you checked that your data is delivered? Have you press the option "Complete task"?
- Have you logout from Reportnet?

Related tasks:

- Check if an update of any other dataflow is necessary (e.g. DF_1_5 due to a change on the noise sources, a change of the total number of inhabitants in agglomerations etc.)

• It is important to be aware that, if DF1_DF5 is updated in Reportnet at the same time than DF4_DF8, the automatic quality checking rules that check the correspondence between the items reported in the different dataflows would not be applicable until the reference tables would be updated accordingly.

4 Statistical information expected to be reported

In order to harmonise the statistical information to be reported to the European Commission, an Excel Workbook has been designed containing 10 different worksheets, 9 of them expected to be fulfilled with information concerning the noise exposure data per noise source requested by the END, and the last worksheet is solely for internal use (for the conversion of the files to enable the automatic quality check of the data being reported).

The expected information to be reported is indicated in the first row of the nine worksheets. Empty fields are not allowed in those worksheets; therefore, one of the following values should be provided in case there is no information available for a specific cell:

Field value	Meaning	Description
-1	Data not applicable	This may apply to the following cases:Table / field not to be reported because no agglomeration, or
		no major roads, or no major railways or no major airports fall in the scope of the Directive (meeting the minimum threshold specified by END).
		 For the agglomerations case if a specific noise source is not present.
		- A field value does not exist (e.g. EURoadID)
-2	Data not available	This may apply to the following cases:
		- Data not mandatory for reporting
		- Data not yet available (mandatory data)
		- Data not available (mandatory data)

The "-2" value should not appear in the mandatory cells corresponding to the final data delivery (in case more than one delivery is done by one MS).

Concerning this dataflow, "0" value will be understood as 0 hundreds of people exposed (meaning that there could be from 0 to 49 people exposed at that noise band for that noise source), or 0 dwellings exposed to a specific noise band, etc.

Information concerning the number of people exposed inside agglomerations and the number of people exposed from major transport sources as well as the number of dwellings are expected to be reported **rounded to the nearest hundred**.

For example, if there are 5235 people exposed, the figure to be provided is 5200, rounding it to the nearest hundred (e.g. 5200 = between 5150 and 5249; 100 = between 50 and 149; 0 = less than 50).

For consultation purposes, all the information expected to be provided in the template excel sheets is detailed in the following subsections (it is not the purpose to reproduce the format of all the spreadsheets, it is just a summary of the details of the data requested in each excel sheet,). This information can also be consulted in the following Reportnet page: <u>http://dd.eionet.europa.eu/datasets/3300</u>.

Naming conventions to upload the requested files in the corresponding Reportnet envelope are detailed in chapter 8.1 of the current annex.

EC and EEA will decline responsibilities for not quality checking and therefore, not including into NOISE (Noise Observation and Information Service for Europe) those deliveries not following the specifications and guidelines provided in this annex.

The specifications detailed in this document will be adapted to the INSPIRE guidelines specifications as soon as they become available and official.

4.1 Data to be reported corresponding to agglomerations > 100.000 inhabitants

4.1.1 Road noise, railway noise and aircraft noise

Information should be provided separately in the corresponding worksheets, named as DF4_8_Agg_Road, DF4_8_Agg_Rail, DF4_8_Agg_Air, respectively.

Field Identifier	Field Name	Field Definition	Compulsory (c) /	Methodology	Data type	Units
			not compulsory (nc)			
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF1_5_Agg	String	Minimum size: 6 Maximum size: 14
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade, including major sources	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Number of people exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade, including major sources	с	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Number of people exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade, including major sources	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lden 70-74	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	_	of people
		that are exposed to values of Lden between 70-74 dB(A),		hundred (for example		
		4 m above the ground and on the most exposed façade,		159,432 in this case is		
		including major sources		equivalent to 159400).		
Lden75	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lden ≥ 75	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	_	of people
	_	that are exposed to values of Lden \geq 75 dB(A), 4 m above		hundred (for example		
		the ground and on the most exposed façade, including		159,432 in this case is		
		major sources		equivalent to 159400).		
Lden5054FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	exposed to Lden 50-54	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Roads	in dwellings that are exposed to values of Lden from a		hundred (for example		
		Major Source between 50-54 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade		equivalent to 159400).		
Lden5559FromMajorSource	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lden 55-59	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lden from a Major Source		hundred (for example		
		between 55-59 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lden6064FromMajorSource	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lden 60-64	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lden from a Major Source		hundred (for example		
		between 60-64 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lden6569FromMajorSource	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
	exposed to Lden 65-69	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lden from a Major Source		hundred (for example		
		between 65-69 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lden7074FromMajorSource	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
	exposed to Lden 70-74	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lden from a Major Source		hundred (for example		
		between 70-74 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lden75FromMajorSource	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
	exposed to Lden \geq 75 from	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	Major Roads	that are exposed to values of Lden from a Major Source		hundred (for example		
		\geq 75 dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade		equivalent to 159400).		

	Lden5054WithSpecialInsula tion	Number of people exposed to L den 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations	nc	The number of people, rounded to the nearest	Integer	Number of people
	lion	with Special Insulation	in dwellings that have special insulation that are exposed		hundred (for example		or people
			to values of Lden between 50-54 dB(A), 4 m above the		159,432 in this case is		
			ground and on the most exposed façade, including major		equivalent to 159400).		
			sources				
	Lden5559WithSpecialInsula	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	tion	exposed to Lden 55-59	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
		with Special Insulation	in dwellings that have special insulation that are exposed		hundred (for example		
			to values of Lden between 55-59 dB(A), 4 m above the		159,432 in this case is		
			ground and on the most exposed façade, including major		equivalent to 159400).		
_			sources			-	
	Lden6064WithSpecialInsula	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	tion	exposed to Lden 60-64	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
		with Special Insulation	in dwellings that have special insulation that are exposed		hundred (for example		
			to values of Lden between 60-64 dB(A), 4 m above the		159,432 in this case is		
			ground and on the most exposed façade, including major		equivalent to 139400).		
ŀ	I den6569WithSpecialInsula	Number of people	Where available, the estimated total number of people	nc	The number of people	Integer	Number
	tion	exposed to Lden 65-69	(rounded to the nearest hundred) living in agglomerations	ne	rounded to the nearest	integer	of people
	uon	with Special Insulation	in dwellings that have special insulation that are exposed		hundred (for example		or people
		······	to values of Lden between 65-69 dB(A), 4 m above the		159.432 in this case is		
			ground and on the most exposed facade, including major		equivalent to 159400).		
			sources				
	Lden7074WithSpecialInsula	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	tion	exposed to Lden 70-74	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
		with Special Insulation	in dwellings that have special insulation that are exposed		hundred (for example		
			to values of Lden between 70-74 dB(A), 4 m above the		159,432 in this case is		
			ground and on the most exposed façade, including major		equivalent to 159400).		
	1.1	N	sources		T 11	Testeres	NT
	Lden/5WithSpecialInsulatio	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	11	exposed to Lden ≥ 75 with Special Insulation	(rounded to the heatest hundred) hving in aggiomerations		hundred (for example		of people
		Special insulation	In twennings that have special institution that are exposed to values of L den $>75 \text{ dB}(\Lambda)$. A m above the ground and		150 432 in this case is		
			on the most exposed facade, including major sources		r_{13} , r_{13} in this case is equivalent to 159400)		
ŀ	Lden5054FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people.	Integer	Number
	WithSpecialInsulation	exposed to Lden 50-54	(rounded to the nearest hundred) living in agglomerations	-	rounded to the nearest		of people
	1	from Major Source with	in dwellings that have special insulation that are exposed		hundred (for example		r · · r ·
		Special Insulation	to values of Lden from a Major Source between 50-54		159,432 in this case is		
			, i i i i i i i i i i i i i i i i i i i		equivalent to 159400).		

		dB(A), 4 m above the ground and on the most exposed facade				
Lden5559FromMajorSource WithSpecialInsulation	Number of people exposed to Lden 55-59 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064FromMajorSource WithSpecialInsulation	Number of people exposed to Lden 60-64 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569FromMajorSource WithSpecialInsulation	Number of people exposed to Lden 65-69 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074FromMajorSource WithSpecialInsulation	Number of people exposed to Lden 70-74 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75FromMajorSourceW ithSpecialInsulation	Number of people exposed to Lden ≥75 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation that are exposed to values of Lden from a Major Source \geq 75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5054WithAQuietFacad e	Number of people exposed to Lden 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden5559WithAQuietFacad	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
e	exposed to Lden 55-59	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	-	of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lden between 55-59 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed facade, including major		equivalent to 159400).		
		sources		1 /		
Lden6064WithAQuietFacad	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
e	exposed to Lden 60-64	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	e	of people
	with a Ouiet Facade	in dwellings that have a quiet facade, that are exposed to		hundred (for example		1 1
		values of Lden between 60-64 dB(A). 4 m above the		159.432 in this case is		
		ground and on the most exposed facade, including major		equivalent to 159400)		
		sources				
Lden6569WithAOuietFacad	Number of people	Where available, the estimated total number of people	nc	The number of people.	Integer	Number
e	exposed to Lden 65-69	(rounded to the nearest hundred) living in agglomerations	-	rounded to the nearest	8	of people
	with a Ouiet Facade	in dwellings that have a quiet facade, that are exposed to		hundred (for example		· · · · ·
		values of Lden between 65-69 dB(A). 4 m above the		159.432 in this case is		
		ground and on the most exposed facade, including major		equivalent to 159400).		
		sources				
Lden7074WithAQuietFacad	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
e	exposed to Lden 70-74	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	e	of people
	with a Quiet Facade	in dwellings that have a quiet facade, that are exposed to		hundred (for example		
		values of Lden between 70-74 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed facade, including major		equivalent to 159400).		
		sources		1		
Lden75WithAQuietFacade	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	exposed to Lden \geq 75 with	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lden \geq 75 dB(A), 4 m above the ground and on		159,432 in this case is		
		the most exposed façade, including major sources		equivalent to 159400).		
Lden5054FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
WithAQuietFacade	exposed to Lden 50-54	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Source with a	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Quiet Façade	values of Lden from a Major Source between 50-54		159,432 in this case is		
	-	dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				

Lden5559FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people.	Integer	Number
WithAOuietFacade	exposed to Lden 55-59	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	8	of people
	from Major Source with a	in dwellings that have a quiet facade, that are exposed to		hundred (for example		· · · · ·
	Ouiet Facade	values of Lden from a Major Source between 55-59		159.432 in this case is		
	C	dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden6064FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
WithAQuietFacade	exposed to Lden 60-64	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	-	of people
-	from Major Source with a	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Quiet Façade	values of Lden from a Major Source between 60-64		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade		•		
Lden6569FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
WithAQuietFacade	exposed to Lden 65-69	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Source with a	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Quiet Façade	values of Lden from a Major Source between 65-69		159,432 in this case is		
	-	dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden7074FromMajorSource	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
WithAQuietFacade	exposed to Lden 70-74	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Source with a	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Quiet Façade	values of Lden from a Major Source between 70-74		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden75FromMajorSourceW	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ithAQuietFacade	exposed to Lden \geq 75 from	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	Major Source with a Quiet	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Façade	values of Lden from a Major Source \geq 75 dB(A), 4 m		159,432 in this case is		
		above the ground and on the most exposed façade		equivalent to 159400).		
Lnight4044	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	exposed to Lnight 40-44	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
		in dwellings that are exposed to values of Lnight between		hundred (for example		
		40-44 dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade, including major sources		equivalent to 159400).		
Lnight4549	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	exposed to Lnight 45-49	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
		in dwellings that are exposed to values of Lnight between		hundred (for example		
		45-49 dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade, including major sources		equivalent to 159400).		

Lnight5054	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lnight 50-54	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 50-54		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade, including major sources		equivalent to 159400).		
Lnight5559	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lnight 55-59	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 55-59		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade, including major sources		equivalent to 159400).		
Lnight6064	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lnight 60-64	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 60-64		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade, including major sources		equivalent to 159400).		
Lnight6569	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lnight 65-69	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 65-69		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade, including major sources		equivalent to 159400).		
Lnight70	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	exposed to Lnight ≥70	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight \geq 70 dB(A), 4 m above		hundred (for example		
		the ground and on the most exposed façade, including		159,432 in this case is		
		major sources		equivalent to 159400).		
Lnight4044FromMajorSour	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ce	exposed to Lnight 40-44	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Roads	in dwellings that are exposed to values of Lnight from		hundred (for example		
		Major Source between 40-44 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade		equivalent to 159400).		
Lnight4549FromMajorSour	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ce	exposed to Lnight 45-49	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Roads	in dwellings that are exposed to values of Lnight from		hundred (for example		
		Major Source between 45-49 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade		equivalent to 159400).		
Lnight5054FromMajorSour	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
ce	exposed to Lnight 50-54	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lnight from a Major Source		hundred (for example		
		between 50-54 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		

Lnight5559FromMajorSour	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
ce	exposed to Lnight 55-59	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	U	of people
	from Major Roads	that are exposed to values of Lnight from a Major Source		hundred (for example		
		between $55-59 \text{ dB}(A)$, 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lnight6064FromMajorSour	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
се	exposed to Lnight 60-64	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	-	of people
	from Major Roads	that are exposed to values of Lnight from a Major Source		hundred (for example		
	-	between 60-64 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lnight6569FromMajorSour	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
се	exposed to Lnight 65-69	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	-	of people
	from Major Roads	that are exposed to values of Lnight from a Major Source		hundred (for example		
		between 65-69 dB(A), 4 m above the ground and on the		159,432 in this case is		
		most exposed façade		equivalent to 159400).		
Lnight70FromMajorSource	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
	exposed to Lnight ≥ 70	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
	from Major Roads	that are exposed to values of Lnight from a Major Source		hundred (for example		
		\geq 70 dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade		equivalent to 159400).		
Lnight4044WithSpecialInsu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	exposed to Lnight 40-44	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with Special Insulation	in dwellings that have special insulation, that are exposed		hundred (for example		
		to values of Lnight between 40-44 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight4549WithSpecialInsu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	exposed to Lnight 45-49	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with Special Insulation	in dwellings that have special insulation, that are exposed		hundred (for example		
		to values of Lnight between 45-49 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight5054WithSpecialInsu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	exposed to Lnight 50-54	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with Special Insulation	in dwellings that have special insulation, that are exposed		hundred (for example		
		to values of Lnight between 50-54 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				

Lnight5559WithSpecialInsu lation	Number of people exposed to Lnight 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade, including major	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithSpecialInsu lation	Number of people exposed to Lnight 60-64 with Special Insulation	sources Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithSpecialInsu lation	Number of people exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsulat ion	Number of people exposed to Lnight ≥70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight \geq 70 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 40-44 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 45-49 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 50-54 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 55-59 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 60-64 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569FromMajorSour ceWithSpecialInsulation	Number of people exposed to Lnight 65-69 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70FromMajorSource WithSpecialInsulation	Number of people exposed to Lnight ≥70 from Major Source with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight from a Major Source \geq 70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithAQuietFaca de	Number of people exposed to Lnight 40-44 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFaca de	Number of people exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade, including major sources	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight5054WithAQuietFaca	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
de	exposed to Lnight 50-54	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest	-	of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lnight between 50-54 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight5559WithAQuietFaca	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
de	exposed to Lnight 55-59	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lnight between 55-59 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources		-		
Lnight6064WithAQuietFaca	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
de	exposed to Lnight 60-64	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lnight between 60-64 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight6569WithAQuietFaca	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
de	exposed to Lnight 65-69	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lnight between 65-69 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight70WithAQuietFacade	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	exposed to Lnight ≥ 70	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	with a Quiet Façade	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
		values of Lnight between ≥ 70 dB(A), 4 m above the		159,432 in this case is		
		ground and on the most exposed façade, including major		equivalent to 159400).		
		sources				
Lnight4044FromMajorSour	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ceWithAQuietFacade	exposed to Lnight 40-44	(rounded to the nearest hundred) living in agglomerations		rounded to the nearest		of people
	from Major Source with a	in dwellings that have a quiet façade, that are exposed to		hundred (for example		
	Quiet Façade	values of Lnight from a Major Source between 40-44		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				

Lnight4549FromMajorSour ceWithAQuietFacade	Number of people exposed to Lnight 45-49 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054FromMajorSour ceWithAQuietFacade	Number of people exposed to Lnight 50-54 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559FromMajorSour ceWithAQuietFacade	Number of people exposed to Lnight 55-59 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064FromMajorSour ceWithAQuietFacade	Number of people exposed to Lnight 60-64 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569FromMajorSour ceWithAQuietFacade	Number of people exposed to Lnight 65-69 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70FromMajorSource WithAQuietFacade	Number of people exposed to Lnight ≥70 from Major Source with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight from a Major Source between \geq 70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationAndMeasurem entMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	с	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255

ComputationMethodName	Name of the computation	Short name of the computation method used to made the	nc	Name	of	the	String	Minimum
	method	calculations		computation	on metho	d		size: 1
								Maximum
								size: 255

4.1.1.1 Extra spreadsheet in the case of aircraft noise

In order to distinguish between different major airports affecting the same agglomeration, an extra worksheet has been added in order to obtain the above mentioned information. Information should be provided in the worksheet named DF4_8_Agg_Air_Major, which contains the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory	Methodology	Data type	Units
			(c) /			
			not			
			compulsory			
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF1_5_Agg	String	Minimum size: 6 Maximum size: 14
IcaoCode	ICAO Code	The airport code defined by the International Civil Aviation Organization	nc	The same code as defined in DF1_5_MAir	String	Minimum size: 4 Maximum size: 4
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 $dB(A)$, 4 m above the ground and on the most exposed façade	с	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6064	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lden 60-64	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	-	of people
		that are exposed to values of Lden between 60-64		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lden6569	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lden 65-69	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lden between 65-69		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lden7074	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lden 70-74	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	_	of people
		that are exposed to values of Lden between 70-74		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lden75	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lden \geq 75	nearest hundred) living in agglomerations in dwellings		rounded to the nearest	U	of people
		that are exposed to values of Lden \geq 75 dB(A), 4 m		hundred (for example		1 1
		above the ground and on the most exposed facade		159,432 in this case is		
				equivalent to 159400).		
Lden5054WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	Lden 50-54 with Special	(rounded to the nearest hundred) living in		rounded to the nearest	U	of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		1 1
		that are exposed to values of Lden between 50-54		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade		1 , , , , , , , , , , , , , , , , , , ,		
Lden5559WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	Lden 55-59 with Special	(rounded to the nearest hundred) living in		rounded to the nearest	U	of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		1 1
		that are exposed to values of Lden between 55-59		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade		1 ,		
Lden6064WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	Lden 60-64 with Special	(rounded to the nearest hundred) living in		rounded to the nearest	U	of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		1 1
		that are exposed to values of Lden between 60-64		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade		·		

Lden6569WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	Lden 65-69 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		
		that are exposed to values of Lden between 65-69		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden7074WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
lation	Lden 70-74 with Special	(rounded to the nearest hundred) living in		rounded to the nearest	-	of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		
		that are exposed to values of Lden between 70-74		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden75WithSpecialInsulat	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ion	Lden ≥ 75 with Special	(rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Insulation	agglomerations in dwellings that have special insulation		hundred (for example		
		that are exposed to values of Lden \geq 75 dB(A), 4 m		159,432 in this case is		
		above the ground and on the most exposed façade		equivalent to 159400).		
Lden5054WithAQuietFac	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ade	Lden 50-54 with a Quiet	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet façade,		hundred (for example		
		that are exposed to values of Lden between 50-54		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden5559WithAQuietFac	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ade	Lden 55-59 with a Quiet	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet façade,		hundred (for example		
		that are exposed to values of Lden between 55-59		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden6064WithAQuietFac	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ade	Lden 60-64 with a Quiet	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet façade,		hundred (for example		
		that are exposed to values of Lden between 60-64		159,432 in this case is		
		dB(A), 4 m above the ground and on the most exposed		equivalent to 159400).		
		façade				
Lden6569WithAQuietFac	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ade	Lden 65-69 with a Quiet	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet façade,		hundred (for example		
		that are exposed to values of Lden between 65-69		159,432 in this case is		
				equivalent to 159400).		

		dB(A), 4 m above the ground and on the most exposed facade				
I den707/With A QuietEac	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people	Integer	Number
ade	I den 70-74 with a Quiet	(rounded to the nearest hundred) living in	ne	rounded to the nearest	Integer	of people
auc	Eacade	agglomerations in dwellings that have a quiet facade		hundred (for example		of people
	1 açade	that are exposed to values of I den between 70-74		159 432 in this case is		
		dB(A) A m above the ground and on the most exposed		equivalent to $159/100$		
		façade		equivalent to 159400).		
Lden75WithAQuietFacade	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	Lden \geq 75 with a Quiet Façade	(rounded to the nearest hundred) living in		rounded to the nearest		of people
		agglomerations in dwellings that have a quiet façade,		hundred (for example		
		that are exposed to values of Lden \geq 75 dB(A), 4 m		159,432 in this case is		
		above the ground and on the most exposed façade		equivalent to 159400).		
Lnight4044	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	Lnight 40-44	(rounded to the nearest hundred) living in		rounded to the nearest		of people
		agglomerations in dwellings that are exposed to values		hundred (for example		
		of Lnight between 40-44 dB(A), 4 m above the ground		159,432 in this case is		
		and on the most exposed façade		equivalent to 159400).		
Lnight4549	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
	Lnight 45-49	(rounded to the nearest hundred) living in		rounded to the nearest		of people
		agglomerations in dwellings that are exposed to values		hundred (for example		
		of Lnight between 45-49 dB(A), 4 m above the ground		159,432 in this case is		
		and on the most exposed façade		equivalent to 159400).		
Lnight5054	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lnight 50-54	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 50-54		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lnight5559	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lnight 55-59	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 55-59		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lnight6064	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lnight 60-64	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 60-64		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		

					1	
Lnight6569	Number of people exposed to	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number
	Lnight 65-69	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight between 65-69		hundred (for example		
		dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		
		façade		equivalent to 159400).		
Lnight70	Number of people exposed to	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number
	Lnight ≥70	nearest hundred) living in agglomerations in dwellings		rounded to the nearest		of people
		that are exposed to values of Lnight ≥ 70 dB(A), 4 m		hundred (for example		
		above the ground and on the most exposed façade		159,432 in this case is		
				equivalent to 159400).		
Lnight4044WithSpecialIns	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ulation	Lnight 40-44 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight between		159,432 in this case is		
		40-44 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lnight4549WithSpecialIns	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ulation	Lnight 45-49 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight between		159,432 in this case is		
		45-49 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lnight5054WithSpecialIns	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ulation	Lnight 50-54 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight between		159,432 in this case is		
		50-54 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lnight5559WithSpecialIns	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ulation	Lnight 55-59 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight between		159,432 in this case is		
		55-59 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lnight6064WithSpecialIns	Number of people exposed to	Where available, the estimated total number of people	nc	The number of people,	Integer	Number
ulation	Lnight 60-64 with Special	(rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight between		159,432 in this case is		
		60-64 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				

Lnight6569WithSpecialIns ulation	Number of people exposed to Lnight 65-69 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithSpecialInsul ation	Number of people exposed to Lnight ≥70 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have special insulation, that are exposed to values of Lnight \geq 70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044WithAQuietFa cade	Number of people exposed to Lnight 40-44 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549WithAQuietFa cade	Number of people exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietFa cade	Number of people exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFa cade	Number of people exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietFa cade	Number of people exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

		dB(A), 4 m above the ground and on the most exposed façade				
Lnight6569WithAQuietFa cade	Number of people exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFaca de	Number of people exposed to Lnight ≥70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between \geq 70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationAndMeasure mentMethodsReportDetail s	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	с	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

4.1.2 Industrial noise

Information should be provided in the worksheet named as DF4_8_Agg_Ind, which contain the following data requests:

Field Identifier	Field Name	Field Definition	Compulsory (c)	Methodology	Data type	Units
			/ not			
XX · A 1 · · X1			compulsory (nc)		a	
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the	nc	The same code as	String	Minimum
		reporting entity to each aggiomeration.		defined in DF1_5_Agg		size: 6
I dam 5054	Number of meanly supposed to	Where evolution the estimated total number of		The number of recente	Integer	Size: 14
Lden5034	I don 50 54	where available, the estimated total humber of	ne	rounded to the people,	Integer	number
	Luen 30-34	agglomorations in dwallings that are exposed to		hundred (for example		of people
		aggiomerations in dwennings that are exposed to values of L den between 50.54 dB(A). A m above		150 432 in this case is		
		the ground and on the most exposed facade		139,432 III ulls case is		
		the ground and on the most exposed raçade		equivalent to 139400).		
Lden5559	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lden 55-59	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
		dwellings that are exposed to values of Lden		hundred (for example		
		between 55-59 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lden6064	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people.	Integer	Number
20010000	Lden 60-64	the nearest hundred) living in agglomerations in	•	rounded to the nearest	meger	of people
		dwellings that are exposed to values of Lden		hundred (for example		
		between 60-64 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lden6569	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lden 65-69	the nearest hundred) living in agglomerations in		rounded to the nearest		of people
		dwellings that are exposed to values of Lden		hundred (for example		
		between 65-69 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lden7074	Number of people exposed to	The estimated total number of people (rounded to	c	The number of people,	Integer	Number
	Lden 70-74	the nearest hundred) living in agglomerations in		rounded to the nearest		of people
		dwellings that are exposed to values of Lden		hundred (for example		
		between 70-74 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		

Lden75	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lden ≥75	the nearest hundred) living in agglomerations in		rounded to the nearest		of people
		dwellings that are exposed to values of Lden \geq 75		hundred (for example		
		dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade		equivalent to 159400).		
Lden5054WithSpecialInsula	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
tion	Lden 50-54 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden		159,432 in this case is		
		between 50-54 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade		•		
Lden5559WithSpecialInsula	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
tion	Lden 55-59 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest	U	of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden		159,432 in this case is		
		between 55-59 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade		•		
Lden6064WithSpecialInsula	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
tion	Lden 60-64 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden		159,432 in this case is		
		between 60-64 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade		-		
Lden6569WithSpecialInsula	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
tion	Lden 65-69 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden		159,432 in this case is		
		between 65-69 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lden7074WithSpecialInsula	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
tion	Lden 70-74 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden		159,432 in this case is		
		between 70-74 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lden75WithSpecialInsulati	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
on	Lden ≥ 75 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation that are exposed to values of Lden \geq 75		159,432 in this case is		
				equivalent to 159400).		

		dB(A), 4 m above the ground and on the most				
		exposed façade				
Lden5054WithAQuietFacad	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
e	Lden 50-54 with a Quiet	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet		hundred (for example		
		façade, that are exposed to values of Lden between		159,432 in this case is		
		50-54 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lden5559WithAQuietFacad	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
e	Lden 55-59 with a Quiet	people (rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Façade	agglomerations in dwellings that have a quiet		hundred (for example		
	5	facade, that are exposed to values of Lden between		159,432 in this case is		
		55-59 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade		1		
Lden6064WithAQuietFacad	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
e	Lden 60-64 with a Quiet	people (rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Façade	agglomerations in dwellings that have a quiet		hundred (for example		
	3	façade, that are exposed to values of Lden between		159,432 in this case is		
		60-64 dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade		1 /		
Lden6569WithAQuietFacad	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
e	Lden 65-69 with a Ouiet	people (rounded to the nearest hundred) living in		rounded to the nearest	0	of people
	Facade	agglomerations in dwellings that have a quiet		hundred (for example		· · · · ·
		facade, that are exposed to values of L den between		159.432 in this case is		
		$65-69 \mathrm{dB}(\mathrm{A}) 4\mathrm{m}$ above the ground and on the most		equivalent to 159400)		
		exposed facade				
Lden7074WithAQuietFacad	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
e	Lden 70-74 with a Quiet	people (rounded to the nearest hundred) living in		rounded to the nearest	U	of people
	Facade	agglomerations in dwellings that have a quiet		hundred (for example		· · · · ·
		facade, that are exposed to values of Lden between		159.432 in this case is		
		$70-74 \mathrm{dB(A)}$ 4 m above the ground and on the most		equivalent to 159400)		
		exposed facade		equivalent to 109 (00).		
L den75WithAQuietFacade	Number of people exposed to	Where available the estimated total number of	nc	The number of people	Integer	Number
Eden / 5 With I Quieti dedde	I den >75 with a Quiet Facade	people (rounded to the nearest hundred) living in	ne	rounded to the nearest	integer	of people
	Eden _75 white a Quiet Fuçude	agglomerations in dwellings that have a quiet		hundred (for example		or people
		facade that are exposed to values of I den >75		159 432 in this case is		
		$dB(\Lambda)$ A m above the ground and on the most		139,432 in this case is		
		avposed facade		equivalent to 159400).		
L night4044	Number of people exposed to	Where available the estimated total number of	nc	The number of people	Integer	Number
Linght+0++	L night 40.44	people (rounded to the nearest hundred) living in	110	rounded to the nearest	mugu	of people
	Lingin 40-44	agglomorations in dwallings that are avposed to		hundred (for exemple		or people
		aggiomerations in uwenings that are exposed to	1	nunureu (101 example		1

		values of Lnight between 40-44 dB(A), 4 m above		159,432 in this case is		
		the ground and on the most exposed façade		equivalent to 159400).		
Lnight4549	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
	Lnight 45-49	people (rounded to the nearest hundred) living in		rounded to the nearest	-	of people
		agglomerations in dwellings that are exposed to		hundred (for example		
		values of Lnight between 45-49 dB(A), 4 m above		159,432 in this case is		
		the ground and on the most exposed façade		equivalent to 159400).		
Lnight5054	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lnight 50-54	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
		dwellings that are exposed to values of Lnight		hundred (for example		
		between 50-54 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lnight5559	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lnight 55-59	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
		dwellings that are exposed to values of Lnight		hundred (for example		
		between 55-59 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lnight6064	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lnight 60-64	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
	C	dwellings that are exposed to values of Lnight		hundred (for example		
		between 60-64 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lnight6569	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lnight 65-69	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
		dwellings that are exposed to values of Lnight		hundred (for example		
		between 65-69 dB(A), 4 m above the ground and		159,432 in this case is		
		on the most exposed façade		equivalent to 159400).		
Lnight70	Number of people exposed to	The estimated total number of people (rounded to	с	The number of people,	Integer	Number
	Lnight ≥70	the nearest hundred) living in agglomerations in		rounded to the nearest	-	of people
	_	dwellings that are exposed to values of Lnight \geq 70		hundred (for example		
		dB(A), 4 m above the ground and on the most		159,432 in this case is		
		exposed façade		equivalent to 159400).		
Lnight4044WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
lation	Lnight 40-44 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest	-	of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 40-44 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed facade				
Lnight4549WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
----------------------------	-------------------------------	--	----	-------------------------	---------	-----------
lation	Lnight 45-49 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 45-49 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lnight5054WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
lation	Lnight 50-54 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 50-54 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lnight5559WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
lation	Lnight 55-59 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 55-59 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lnight6064WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
lation	Lnight 60-64 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest	_	of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 60-64 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lnight6569WithSpecialInsu	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
lation	Lnight 65-69 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight		159,432 in this case is		
		between 65-69 dB(A), 4 m above the ground and		equivalent to 159400).		
		on the most exposed façade				
Lnight70WithSpecialInsulat	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
ion	Lnight ≥ 70 with Special	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Insulation	agglomerations in dwellings that have special		hundred (for example		
		insulation, that are exposed to values of Lnight \geq 70		159,432 in this case is		
		dB(A), 4 m above the ground and on the most		equivalent to 159400).		
		exposed façade				
Lnight4044WithAQuietFac	Number of people exposed to	Where available, the estimated total number of	nc	The number of people,	Integer	Number
ade	Lnight 40-44 with a Quiet	people (rounded to the nearest hundred) living in		rounded to the nearest		of people
	Façade	agglomerations in dwellings that have a quiet		hundred (for example		
		façade, that are exposed to values of Lnight		159,432 in this case is		
				equivalent to 159400).		

		between 40-44 dB(A), 4 m above the ground and on the most exposed façade				
Lnight4549WithAQuietFac ade	Number of people exposed to Lnight 45-49 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054WithAQuietFac ade	Number of people exposed to Lnight 50-54 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559WithAQuietFac ade	Number of people exposed to Lnight 55-59 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064WithAQuietFac ade	Number of people exposed to Lnight 60-64 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6569WithAQuietFac ade	Number of people exposed to Lnight 65-69 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70WithAQuietFacade	Number of people exposed to Lnight ≥70 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that have a quiet façade, that are exposed to values of Lnight between \geq 70 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

ComputationAndMeasurem	Computation and	The full name of the report, the author/publisher	с	An electronic copy of	String	Minimum
entMethodsReportDetails	measurement methods report	and date of production.		the report submitted to		size: 1
	details			the EC.		Maximum
						size: 255
ComputationMethodName	Name of the computation	Short name of the computation method used to	nc	Name of the	String	Minimum
	method	made the calculations		computation method		size: 1
						Maximum
						size: 255

4.1.3 Number of people exposed considering all noise sources in an agglomeration

Information should be provided in the worksheet named as DF4_8_Agg_ALL. This worksheet only needs to be completed on voluntary basis, and it is designed to contain information for the global assessment of noise exposure in a given area due to different noise sources or for overall predictions for such an area.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
UniqueAgglomerationId	Unique Agglomeration ID	Unique Agglomeration ID assigned by the reporting entity to each agglomeration.	nc	The same code as defined in DF1_5_Agg	String	Minimum size: 6 Maximum size: 14
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Number of people exposed to Lden 60-64	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6569	Number of people exposed to Lden 65-69	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden7074	Number of people exposed to Lden 70-74	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75	Number of people exposed to Lden ≥75	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lden \geq 75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4044	Number of people exposed to Lnight 40-44	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 40-44 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight4549	Number of people exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5054	Number of people exposed to Lnight 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight5559	Number of people exposed to Lnight 55-59	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight6064	Number of people exposed to Lnight 60-64	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lnight6569	Number of people exposed to Lnight 65-69	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight between 65-69 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lnight70	Number of people exposed to Lnight ≥70	Where available, the estimated total number of people (rounded to the nearest hundred) living in agglomerations in dwellings that are exposed to values of Lnight \geq 70 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

Some recommendations regarding the production of overall exposure data can be found in the position paper issued by WG-AEN on "Presenting Noise Mapping Information to the Public", March 2008.

It is important for the EC and EEA that if you provide this information, it would be relevant to accompany it with a supplementary report specifying which method has been chosen and the reasons for using that method. It is also important to report the institution or person that has developed this exercise.

4.2 Data to be reported corresponding to Major roads with more than 3.000.000 vehicles/year

Information should be provided in the corresponding worksheet named as DF4_8_MRoad and is referred to the number of people exposed outside agglomerations, except where it is explicitly stated.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	The same code as defined in DF0_Mroad	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
UniqueRoadIdForCalculation s	Unique Road ID For Calculation	List of Unique Road ID that have been used for the calculation of the number of people exposed.	nc	List of Unique Road ID separated by a comma (provided in DF1_5_MRoad)	String	
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6064	Number of people exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden6569	Number of people exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden7074	Number of people exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden75	Number of people exposed to Lden ≥75	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden \geq 75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden5054WithSpecialInsulati on	Number of people exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden5559WithSpecialInsulati on	Number of people exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden6064WithSpecialInsulati on	Number of people exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of

Lden6569WithSpecialInsulati	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
on	to Lden 65-69 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	_	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation that are exposed to values of		159,432 in this case is			
		Lden between 65-69 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed facade		1 /			
Lden7074WithSpecialInsulati	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
on	to Lden 70-74 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	0	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example		r · · r ·	
		special insulation that are exposed to values of		159.432 in this case is			
		L den between 70-74 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed facade					
Lden75WithSpecialInsulation	Number of people exposed	Where available, the estimated total number of	nc	The number of people.	Integer	Number	of
F	to Lden >75 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	8	people	~ -
	Insulation	outside agglomerations in dwellings that have		hundred (for example		r · · r ·	
		special insulation that are exposed to values of		159.432 in this case is			
		L den >75 dB(A). 4 m above the ground and on		equivalent to 159400).			
		the most exposed facade					
Lden5054WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people	Integer	Number	of
20010 00 111100 20100 00000	to L den 50-54 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	meger	people	01
	Facade	outside agglomerations in dwellings that have a		hundred (for example		r · · r · ·	
		quiet facade, that are exposed to values of Lden		159.432 in this case is			
		between 50-54 dB(A). 4 m above the ground		equivalent to 159400).			
		and on the most exposed facade		1			
Lden5559WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 55-59 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	0	people	
	Facade	outside agglomerations in dwellings that have a		hundred (for example		1 1	
	5	quiet facade, that are exposed to values of Lden		159.432 in this case is			
		between 55-59 dB(A), 4 m above the ground		equivalent to 159400).			
		and on the most exposed facade		1 /			
Lden6064WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 60-64 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	C	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		1 1	
		quiet façade, that are exposed to values of Lden		159,432 in this case is			
		between 60-64 dB(A), 4 m above the ground		equivalent to 159400).			
		and on the most exposed façade					
Lden6569WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 65-69 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	Ũ	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			
		quiet façade, that are exposed to values of Lden		· · ·			

		between 65-69 dB(A), 4 m above the ground and on the most exposed facade		159,432 in this case is equivalent to 159400).			
Lden7074WithAQuietFacade	Number of people exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden75WithAQuietFacade	Number of people exposed to Lden ≥75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden ≥75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight4549	Number of people exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight5054	Number of people exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight5559	Number of people exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight6064	Number of people exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of

Lnight6569	Number of people exposed	The estimated total number of people (rounded	с	The number of people,	Integer	Number	of
	to Lnight 65-69	to the nearest hundred) living outside		rounded to the nearest		people	
		agglomerations in dwellings that are exposed to		hundred (for example			
		values of Lnight between 65-69 dB(A), 4 m		159,432 in this case is			
		above the ground and on the most exposed		equivalent to 159400).			
		façade					
Lnight70	Number of people exposed	The estimated total number of people (rounded	c	The number of people,	Integer	Number	of
	to Lnight ≥70	to the nearest hundred) living outside		rounded to the nearest		people	
		agglomerations in dwellings that are exposed to		hundred (for example			
		values of Lnight \geq 70 dB(A), 4 m above the		159,432 in this case is			
		ground and on the most exposed façade		equivalent to 159400).			
Lnight4549WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 45-49 with	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 45-49 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight5054WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 50-54 with	people (rounded to the nearest hundred) living		rounded to the nearest	_	people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 50-54 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight5559WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 55-59 with	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 55-59 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight6064WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 60-64 with	people (rounded to the nearest hundred) living		rounded to the nearest	_	people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
	-	special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 60-64 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight6569WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 65-69 with	people (rounded to the nearest hundred) living		rounded to the nearest	-	people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example		-	
	_	special insulation, that are exposed to values of		159,432 in this case is			
		-		equivalent to 159400).			

		Lnight between 65-69 dB(A), 4 m above the					
		ground and on the most exposed façade					
Lnight70WithSpecialInsulatio	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
n	to Lnight >70 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example		1 1	
		special insulation, that are exposed to values of		159.432 in this case is			
		Lnight \geq 70 dB(A). 4 m above the ground and		equivalent to 159400).			
		on the most exposed facade					
Lnight4549WithAOuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people.	Integer	Number	of
e	to Lnight 45-49 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	meger	people	01
c	Facade	in agglomerations in dwellings that have a quiet		hundred (for example		people	
	1 434400	facade that are exposed to values of Lnight		159 432 in this case is			
		between 45-49 dB(A) 4 m above the ground		equivalent to 159400)			
		and on the most exposed facade		equivalent to 159 100).			
I night5054WithAOujetFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people	Integer	Number	of
	to I night 50-54 with a Quiet	people (rounded to the nearest hundred) living	lic	rounded to the nearest	integer	neonle	01
e	Facade	outside agglomerations in dwellings that have a		hundred (for example		people	
	1 açade	quiet facade that are exposed to values of		159 432 in this case is			
		I night between $50-54$ dB(A) A m above the		139,432 in this case is equivalent to 159400)			
		ground and on the most exposed facade		equivalent to 159400).			
L night 5550 With A Quiot Encod	Number of people exposed	Where available, the estimated total number of	no	The number of people	Integer	Numbor	of
	to I night 55 59 with a Quiet	people (rounded to the pearest hundred) living	lic	rounded to the nearest	Integer	number	01
e	Encode	outside agglomorations in dwallings that have a		hundred (for exemple		people	
	Paçade	quiet facada, that are exposed to values of		150.432 in this case is			
		quiet laçade, that are exposed to values of I night between 55.50 dB(A). A m above the		139,432 in uns case is			
		ground and on the most exposed feedda		equivalent to 159400).			
L night 6064With A QuiatEggad	Number of reenle evreged	Where excitable, the estimated total number of		The number of neerly	Integen	Number	of
Linghtooo4 withAQuietFacad	Number of people exposed	where available, the estimated total number of	nc	The number of people,	meger	Number	01
e	to Lnight 60-64 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Façade	outside aggiomerations in dweilings that have a		nundred (for example			
		quiet raçade, that are exposed to values of		159,432 in this case is			
		Lnight between 60-64 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade			*		
Lnight6569WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 65-69 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			
		quiet façade, that are exposed to values of		159,432 in this case is			
		Lnight between 65-69 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight70WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
to F	to Lnight \geq 70 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			

AreaExposedToLden55Includ	Area (km2) exposed to Lden > 55 (including	quiet façade, that are exposed to values of Lnight between \geq 70 dB(A), 4 m above the ground and on the most exposed façade The estimated total area (in km ²) exposed to values of Lden equal and higher than 55 dB.	c	159,432 in this case is equivalent to 159400).	Float	Minimum size: 0
	agglomerations)	The area must include agglomerations.			T 1	Unit: km ²
AreaExposedToLden65Includ ingAgglomerations	Area (km2) exposed to Lden ≥ 65 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden equal and higher than 65 dB. The area must include agglomerations.	с		Float	Minimum size: 0 Unit: km ²
AreaExposedToLden75Includ ingAgglomerations	Area (km2) exposed to Lden \geq 75 (including agglomerations)	The estimated total area (in km ²) exposed to values of Lden equal and higher than 75 dB. The area must include agglomerations.	с		Float	Minimum size: 0 Unit: km ²
Lden55IncludingAgglomerati ons	Numbers of people exposed to Lden \geq 55 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden equal and higher than 55 dB. The number of people must include agglomerations.	с	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden65IncludingAgglomerati ons	Numbers of people exposed to Lden \geq 65 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden equal and higher than 65 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden75IncludingAgglomerati ons	Numbers of people exposed to Lden \geq 75 (including agglomerations)	The estimated total number of people (rounded to the nearest hundred) exposed to values of Lden equal and higher than 75 dB. The number of people must include agglomerations.	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
DwellingsExposedToLden55I ncludingAgglomerations	Dwellings exposed to Lden ≥ 55 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden equal and higher than 55 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred and rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of dwellings
DwellingsExposedToLden65I ncludingAgglomerations	Dwellings exposed to Lden ≥ 65 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden equal and higher than 65 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred and rounded to the nearest hundred (for	Integer	Number of dwellings

				example 77,598 in this case is equivalent to 77600).		
DwellingsExposedToLden75I ncludingAgglomerations	Dwellings exposed to Lden \geq 75 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden equal and higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred and rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of dwellings
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMeasuremen tMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	с	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

4.3 Data to be reported corresponding to Major railways with more than 30.000 train passages/year

Information should be provided in the corresponding worksheet named as DF4_8_MRail and is referred to the number of people exposed outside agglomerations, except where it is explicitly stated.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
ReportingEntityUniqueCode	Reporting Entity Unique Code	A single character Unique code assigned by the Member State to each Reporting Entity.	nc	The same code as defined in DF0_MRail	String	Minimum size: 1 Maximum size: 1 Minimum value: a Maximum value: z
UniqueRailIdForCalculations	Unique Rail ID For Calculation	List of Unique Rail ID that have been used for the calculation of the number of people exposed.	nc	List of Unique Rail ID separated by a comma (provided in DF1_5_MRail)	String	
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden6064	Number of people exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed facade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden6569	Number of people exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden7074	Number of people exposed to Lden 70-74	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden75	Number of people exposed to Lden ≥75	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden \geq 75 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden5054WithSpecialInsulati on	Number of people exposed to Lden 50-54 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden5559WithSpecialInsulati on	Number of people exposed to Lden 55-59 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden6064WithSpecialInsulati on	Number of people exposed to Lden 60-64 with Special Insulation	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have special insulation that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed facade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of

Lden6569WithSpecialInsulati	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
on	to Lden 65-69 with Special	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation that are exposed to values of		159,432 in this case is			
		Lden between 65-69 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lden7074WithSpecialInsulati	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
on	to Lden 70-74 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	C	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation that are exposed to values of		159,432 in this case is			
		Lden between 70-74 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed facade		1 ,			
Lden75WithSpecialInsulation	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
I	to Lden >75 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	0	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example		I · · I ·	
		special insulation that are exposed to values of		159.432 in this case is			
		Lden >75 dB(A). 4 m above the ground and on		equivalent to 159400).			
		the most exposed facade					
Lden5054WithAOuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people.	Integer	Number	of
	to Lden 50-54 with a Ouiet	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Facade	outside agglomerations in dwellings that have a		hundred (for example		I · · I ·	
	<u> </u>	quiet facade, that are exposed to values of Lden		159.432 in this case is			
		between 50-54 dB(A). 4 m above the ground		equivalent to 159400).			
		and on the most exposed façade		1 /			
Lden5559WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 55-59 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		1 1	
	3	quiet façade, that are exposed to values of Lden		159,432 in this case is			
		between 55-59 dB(A), 4 m above the ground		equivalent to 159400).			
		and on the most exposed façade					
Lden6064WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 60-64 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	C	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			
	5	quiet façade, that are exposed to values of Lden		159,432 in this case is			
		between 60-64 dB(A), 4 m above the ground		equivalent to 159400).			
		and on the most exposed façade					
Lden6569WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lden 65-69 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	-	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		_	
		quiet façade, that are exposed to values of Lden					

		between 65-69 dB(A), 4 m above the ground and on the most exposed façade		159,432 in this case is equivalent to 159400).			
Lden7074WithAQuietFacade	Number of people exposed to Lden 70-74 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden between 70-74 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lden75WithAQuietFacade	Number of people exposed to Lden ≥75 with a Quiet Façade	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that have a quiet façade, that are exposed to values of Lden ≥75 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight4549	Number of people exposed to Lnight 45-49	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 45-49 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight5054	Number of people exposed to Lnight 50-54	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 50-54 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight5559	Number of people exposed to Lnight 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of
Lnight6064	Number of people exposed to Lnight 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lnight between 60-64 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number people	of

Lnight6569	Number of people exposed	The estimated total number of people (rounded	c	The number of people,	Integer	Number	of
	to Lnight 65-69	to the nearest hundred) living outside		rounded to the nearest		people	
		agglomerations in dwellings that are exposed to		hundred (for example			
		values of Lnight between 65-69 dB(A), 4 m		159,432 in this case is			
		above the ground and on the most exposed		equivalent to 159400).			
		façade					
Lnight70	Number of people exposed	The estimated total number of people (rounded	с	The number of people,	Integer	Number	of
_	to Lnight ≥70	to the nearest hundred) living outside		rounded to the nearest	_	people	
		agglomerations in dwellings that are exposed to		hundred (for example			
		values of Lnight \geq 70 dB(A), 4 m above the		159,432 in this case is			
		ground and on the most exposed façade		equivalent to 159400).			
Lnight4549WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 45-49 with	people (rounded to the nearest hundred) living		rounded to the nearest	Ũ	people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 45-49 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade		· · · · · ·			
Lnight5054WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 50-54 with	people (rounded to the nearest hundred) living		rounded to the nearest	Ũ	people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
	-	special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 50-54 dB(\hat{A}), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade		1			
Lnight5559WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 55-59 with	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 55-59 dB(\hat{A}), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight6064WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 60-64 with	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example			
	-	special insulation, that are exposed to values of		159,432 in this case is			
		Lnight between 60-64 dB(\hat{A}), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade					
Lnight6569WithSpecialInsula	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
tion	to Lnight 65-69 with	people (rounded to the nearest hundred) living		rounded to the nearest		people	
	Special Insulation	outside agglomerations in dwellings that have		hundred (for example		_	
	_	special insulation, that are exposed to values of		159,432 in this case is			
		-		equivalent to 159400).			

		Lnight between 65-69 dB(A), 4 m above the					
		ground and on the most exposed façade					
Lnight70WithSpecialInsulatio	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
n	to Lnight \geq 70 with Special	people (rounded to the nearest hundred) living		rounded to the nearest	•	people	
	Insulation	outside agglomerations in dwellings that have		hundred (for example			
		special insulation, that are exposed to values of		159.432 in this case is			
		Lnight ≥ 70 dB(A), 4 m above the ground and		equivalent to 159400).			
		on the most exposed facade		1 ,			
Lnight4549WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 45-49 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	in agglomerations in dwellings that have a quiet		hundred (for example		1 1	
	3	facade, that are exposed to values of Lnight		159.432 in this case is			
		between 45-49 dB(A), 4 m above the ground		equivalent to 159400).			
		and on the most exposed façade		1 ,			
Lnight5054WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 50-54 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		1 1	
	3	quiet facade, that are exposed to values of		159,432 in this case is			
		Lnight between 50-54 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade		1 /			
Lnight5559WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 55-59 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			
	3	quiet facade, that are exposed to values of		159,432 in this case is			
		Lnight between 55-59 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade		1 ,			
Lnight6064WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 60-64 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		1 1	
	3	quiet facade, that are exposed to values of		159,432 in this case is			
		Lnight between 60-64 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed facade		1 ,			
Lnight6569WithAQuietFacad	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
e	to Lnight 65-69 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	U	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example			
	3	quiet façade, that are exposed to values of		159,432 in this case is			
		Lnight between 65-69 dB(A), 4 m above the		equivalent to 159400).			
		ground and on the most exposed façade		·			
Lnight70WithAQuietFacade	Number of people exposed	Where available, the estimated total number of	nc	The number of people,	Integer	Number	of
	to Lnight \geq 70 with a Quiet	people (rounded to the nearest hundred) living		rounded to the nearest	Ũ	people	
	Façade	outside agglomerations in dwellings that have a		hundred (for example		· ·	

-		_			-	
		quiet façade, that are exposed to values of		159,432 in this case is		
		Lnight between ≥ 70 dB(A), 4 m above the		equivalent to 159400).		
		ground and on the most exposed façade				
AreaExposedToLden55Includ	Area (km2) exposed to	The estimated total area (in km ²) exposed to	с		Float	Minimum
ingAgglomerations	Lden \geq 55 (including	values of Lden equal and higher than 55 dB.				size: 0
	agglomerations)	The area must include agglomerations.				Unit: km ²
AreaExposedToLden65Includ	Area (km2) exposed to	The estimated total area (in km ²) exposed to	c		Float	Minimum
ingAgglomerations	Lden \geq 65 (including	values of Lden equal and higher than 65 dB.				size: 0
	agglomerations)	The area must include agglomerations.				Unit: km ²
AreaExposedToLden75Includ	Area (km2) exposed to	The estimated total area (in km ²) exposed to	c		Float	Minimum
ingAgglomerations	Lden \geq 75 (including	values of Lden equal and higher than 75 dB.				size: 0
	agglomerations)	The area must include agglomerations.				Unit: km ²
Lden55IncludingAgglomerati	Numbers of people exposed	The estimated total number of people (rounded	с	The number of people,	Integer	Number of
ons	to Lden \geq 55 (including	to the nearest hundred) exposed to values of		rounded to the nearest		people
	agglomerations)	Lden equal and higher than 55 dB. The number		hundred (for example		
		of people must include agglomerations.		159,432 in this case is		
				equivalent to 159400).		
Lden65IncludingAgglomerati	Numbers of people exposed	The estimated total number of people (rounded	с	The number of people,	Integer	Number of
ons	to Lden \geq 65 (including	to the nearest hundred) exposed to values of		rounded to the nearest		people
	agglomerations)	Lden equal and higher than 65 dB. The number		hundred (for example		
		of people must include agglomerations.		159,432 in this case is		
				equivalent to 159400).		
Lden75IncludingAgglomerati	Numbers of people exposed	The estimated total number of people (rounded	c	The number of people,	Integer	Number of
ons	to Lden \geq 75 (including	to the nearest hundred) exposed to values of		rounded to the nearest		people
	agglomerations)	Lden equal and higher than 75 dB. The number		hundred (for example		
		of people must include agglomerations.		159,432 in this case is		
				equivalent to 159400).		
DwellingsExposedToLden55I	Dwellings exposed to Lden	The estimated total number of dwellings	с	The number of	Integer	Number of
ncludingAgglomerations	\geq 55 (including	(rounded to the nearest hundred) exposed to		dwellings, rounded to		dwellings
	agglomerations)	values of Lden equal and higher than 55 dB.		the nearest hundred		
		The number of dwellings must include		and rounded to the		
		agglomerations.		nearest hundred (for		
				example 77,598 in this		
				case is equivalent to		
				77600).		
DwellingsExposedToLden65I	Dwellings exposed to Lden	The estimated total number of dwellings	с	The number of	Integer	Number of
ncludingAgglomerations	\geq 65 (including	(rounded to the nearest hundred) exposed to		dwellings, rounded to		dwellings
	agglomerations)	values of Lden equal and higher than 65 dB.		the nearest hundred		
		The number of dwellings must include		and rounded to the		
		agglomerations.		nearest hundred (for		

				example 77,598 in this case is equivalent to 77600).		
DwellingsExposedToLden75I ncludingAgglomerations	Dwellings exposed to Lden \geq 75 (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden equal and higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred and rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of dwellings
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMeasuremen tMethodsReportDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	с	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethodName	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

4.4 Data to be reported corresponding to Major airports with more than 50.000 movements / year

Information should be provided in the worksheet named as DF4_8_Mair and is referred to the number of people exposed outside agglomerations, except where is it explicitly stated.

Field Identifier	Field Name	Field Definition	Compulsory (c) / not compulsory (nc)	Methodology	Data type	Units
IcaoCode	ICAO Code	The airport code defined by the International Civil Aviation Organization	nc	The same code as defined in DF1_5_MAir	String	Minimum size: 4 Maximum size: 4
Lden5054	Number of people exposed to Lden 50-54	Where available, the estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 50-54 dB(A), 4 m above the ground and on the most exposed façade	nc	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden5559	Number of people exposed to Lden 55-59	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 55-59 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6064	Number of people exposed to Lden 60-64	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 60-64 dB(A), 4 m above the ground and on the most exposed façade	с	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people
Lden6569	Number of people exposed to Lden 65-69	The estimated total number of people (rounded to the nearest hundred) living outside agglomerations in dwellings that are exposed to values of Lden between 65-69 dB(A), 4 m above the ground and on the most exposed façade	c	The number of people, rounded to the nearest hundred (for example 159,432 in this case is equivalent to 159400).	Integer	Number of people

Lden7074	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
	exposed to Lden 70-74	nearest hundred) living outside agglomerations in		rounded to the nearest		people	
		dwellings that are exposed to values of Lden between 70-		hundred (for example			
		74 dB(A), 4 m above the ground and on the most exposed		159,432 in this case is			
		façade		equivalent to 159400).			
Lden75	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
	exposed to Lden ≥75	nearest hundred) living outside agglomerations in		rounded to the nearest		people	
		dwellings that are exposed to values of Lden \geq 75 dB(A),		hundred (for example			
		4 m above the ground and on the most exposed façade		159,432 in this case is			
				equivalent to 159400).			
Lden5054WithSpecia	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
lInsulation	exposed to Lden 50-54	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden between $50-54 \text{ dB}(A)$,		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).			
Lden5559WithSpecia	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
lInsulation	exposed to Lden 55-59	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden between $55-59 \text{ dB}(A)$,		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).			
Lden6064WithSpecia	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
lInsulation	exposed to Lden 60-64	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden between $60-64 \text{ dB}(A)$,		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).	_		
Lden6569WithSpecia	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
Ilnsulation	exposed to Lden 65-69	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden between $65-69 \text{ dB}(A)$,		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).	-		
Lden7074WithSpecia	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
lInsulation	exposed to Lden 70-74	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden between $70-74$ dB(A),		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).	-		
Lden75WithSpecialI	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
nsulation	exposed to Lden ≥ 75 with	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	Special Insulation	agglomerations in dwellings that have special insulation		hundred (for example			
		that are exposed to values of Lden \geq 75 dB(A), 4 m above		159,432 in this case is			
		the ground and on the most exposed façade		equivalent to 159400).			

	Lden5054WithAQuie	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	tFacade	exposed to Lden 50-54	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden between 50-54 dB(A), 4 m		159,432 in this case is			
			above the ground and on the most exposed façade		equivalent to 159400).		L	
	Lden5559WithAQuie	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	tFacade	exposed to Lden 55-59	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden between 55-59 dB(A), 4 m		159,432 in this case is		I	
			above the ground and on the most exposed façade		equivalent to 159400).			
	Lden6064WithAQuie	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	tFacade	exposed to Lden 60-64	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden between 60-64 dB(A), 4 m		159,432 in this case is			
			above the ground and on the most exposed façade		equivalent to 159400).		ļ	
	Lden6569WithAQuie	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	tFacade	exposed to Lden 65-69	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden between 65-69 dB(A), 4 m		159,432 in this case is			
			above the ground and on the most exposed façade		equivalent to 159400).			
	Lden7074WithAQuie	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	tFacade	exposed to Lden 70-74	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden between 70-74 dB(A), 4 m		159,432 in this case is			
			above the ground and on the most exposed façade		equivalent to 159400).		ļ	
	Lden75WithAQuietF	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	acade	exposed to Lden \geq 75 with	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
			are exposed to values of Lden \geq 75 dB(A), 4 m above the		159,432 in this case is			
ļ			ground and on the most exposed façade		equivalent to 159400).		<u> </u>	
	Lnight4549	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
		exposed to Lnight 45-49	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
			agglomerations in dwellings that are exposed to values of		hundred (for example			
			Lnight between $45-49 \text{ dB}(A)$, 4 m above the ground and		159,432 in this case is			
ļ			on the most exposed façade		equivalent to 159400).			
	Lnight5054	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
		exposed to Lnight 50-54	nearest hundred) living outside agglomerations in		rounded to the nearest		people	
			dwellings that are exposed to values of Lnight between 50-		hundred (for example			
			54 dB(A), 4 m above the ground and on the most exposed $\mathbf{B}(\mathbf{A})$		159,432 in this case is		1	
			taçade		equivalent to 159400).		1	

	Lnight5559	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
	-	exposed to Lnight 55-59	nearest hundred) living outside agglomerations in		rounded to the nearest	_	people	
			dwellings that are exposed to values of Lnight between 55-		hundred (for example		1	
			59 dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		1	
			façade		equivalent to 159400).		1	
	Lnight6064	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
	-	exposed to Lnight 60-64	nearest hundred) living outside agglomerations in		rounded to the nearest	_	people	
			dwellings that are exposed to values of Lnight between 60-		hundred (for example			
			64 dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		1	
			façade		equivalent to 159400).		1	
	Lnight6569	Number of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number	of
		exposed to Lnight 65-69	nearest hundred) living outside agglomerations in		rounded to the nearest		people	
			dwellings that are exposed to values of Lnight between 65-		hundred (for example		1	
			69 dB(A), 4 m above the ground and on the most exposed		159,432 in this case is		1	
			façade		equivalent to 159400).			
	Lnight70	Number of people	The estimated total number of people (rounded to the	c	The number of people,	Integer	Number	of
		exposed to Lnight ≥70	nearest hundred) living outside agglomerations in		rounded to the nearest		people	
			dwellings that are exposed to values of Lnight \geq 70 dB(A),		hundred (for example		1	
			4 m above the ground and on the most exposed façade		159,432 in this case is		1	
					equivalent to 159400).		L	
	Lnight4549WithSpec	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	ialInsulation	exposed to Lnight 45-49	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example		1	
			that are exposed to values of Lnight between 45-49 dB(A),		159,432 in this case is		1	
			4 m above the ground and on the most exposed façade		equivalent to 159400).		<u> </u>	
	Lnight5054WithSpec	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	ialInsulation	exposed to Lnight 50-54	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example		1	
			that are exposed to values of Lnight between 50-54 dB(A),		159,432 in this case is		1	
l			4 m above the ground and on the most exposed façade		equivalent to 159400).		Ļ	
	Lnight5559WithSpec	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	ialInsulation	exposed to Lnight 55-59	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example		1	
			that are exposed to values of Lnight between $55-59 \text{ dB}(A)$,		159,432 in this case is		1	
ļ			4 m above the ground and on the most exposed façade		equivalent to 159400).			
	Lnight6064WithSpec	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
	ialInsulation	exposed to Lnight 60-64	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
		with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example		ł	
			that are exposed to values of Lnight between $60-64 \text{ dB}(A)$,		159,432 in this case is		ł	
			4 m above the ground and on the most exposed facade		equivalent to 159400).		ł	

Lnight6569WithSpec	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ialInsulation	exposed to Lnight 65-69	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example			
		that are exposed to values of Lnight between 65-69 dB(A),		159,432 in this case is			
		4 m above the ground and on the most exposed façade		equivalent to 159400).			
Lnight70WithSpecial	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
Insulation	exposed to Lnight ≥ 70	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with Special Insulation	agglomerations in dwellings that have special insulation,		hundred (for example			
		that are exposed to values of Lnight \geq 70 dB(A), 4 m above		159,432 in this case is			
		the ground and on the most exposed façade		equivalent to 159400).			
Lnight4549WithAQu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ietFacade	exposed to Lnight 45-49	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between 45-49 dB(A), 4		159,432 in this case is			
		m above the ground and on the most exposed façade		equivalent to 159400).			
Lnight5054WithAQu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ietFacade	exposed to Lnight 50-54	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between 50-54 dB(A), 4		159,432 in this case is			
		m above the ground and on the most exposed façade		equivalent to 159400).			
Lnight5559WithAQu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ietFacade	exposed to Lnight 55-59	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between 55-59 dB(A), 4		159,432 in this case is			
		m above the ground and on the most exposed façade		equivalent to 159400).			
Lnight6064WithAQu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ietFacade	exposed to Lnight 60-64	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between 60-64 dB(A), 4		159,432 in this case is			
		m above the ground and on the most exposed façade		equivalent to 159400).	_		-
Lnight6569WithAQu	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
ietFacade	exposed to Lnight 65-69	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	agglomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between 65-69 dB(A), 4		159,432 in this case is			
		m above the ground and on the most exposed façade		equivalent to 159400).	v	XX 1	0
Lnight70WithAQuiet	Number of people	Where available, the estimated total number of people	nc	The number of people,	Integer	Number	of
Facade	exposed to Lnight ≥ 70	(rounded to the nearest hundred) living outside		rounded to the nearest		people	
	with a Quiet Façade	aggiomerations in dwellings that have a quiet façade, that		hundred (for example			
		are exposed to values of Lnight between $\geq /0$ dB(A), 4 m		159,432 in this case is			
		above the ground and on the most exposed facade		equivalent to 159400).			

AreaExposedToLden 55IncludingAgglome	Area (km2) exposed to $I den \ge 55$ (including	The estimated total area (in km^2) exposed to values of L den equal and higher than 55 dB. The area must include	с		Float	Minimum size: 0
rations	agglomerations)	agglomerations.				Unit: km ²
AreaExposedToLden	Area (km2) exposed to	The estimated total area (in km ²) exposed to values of	с		Float	Minimum
65IncludingAgglome	Lden \geq 65 (including	Lden equal and higher than 65 dB. The area must include				size: 0
rations	agglomerations)	agglomerations.				Unit: km ²
AreaExposedToLden	Area (km2) exposed to	The estimated total area (in km ²) exposed to values of	с		Float	Minimum
75IncludingAgglome	Lden \geq 75 (including	Lden equal and higher than 75 dB. The area must include				size: 0
rations	agglomerations)	agglomerations.				Unit: km ²
Lden55IncludingAgg	Numbers of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number of
lomerations	exposed to Lden \geq 55	nearest hundred) exposed to values of Lden equal and		rounded to the nearest		people
	(including	higher than 55 dB. The number of people must include		hundred (for example		
	agglomerations)	agglomerations.		159,432 in this case is		
				equivalent to 159400).	-	
Lden65IncludingAgg	Numbers of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number of
lomerations	exposed to Lden ≥ 65	nearest hundred) exposed to values of Lden equal and		rounded to the nearest		people
	(including	higher than 65 dB. The number of people must include		hundred (for example		
	agglomerations)	agglomerations.		159,432 in this case is		
X 1 777 1 1' A				equivalent to 159400).	T .	
Lden/SincludingAgg	Numbers of people	The estimated total number of people (rounded to the	с	The number of people,	Integer	Number of
iomerations	exposed to Lden ≥ 75	higher than 75 dD. The number of people must include		hundred to the hearest		people
	(including	anglemerations		150 422 in this case is		
	aggiomerations)	aggiomerations.		159,452 III tills case is		
DwallingsEvposedTo	Dwallings arpoad to	The estimated total number of dwallings (rounded to the		The number of duallings	Integer	Number of
L don55Including A gg	L don > 55 (including	ne estimated total number of dwennings (founded to the	C	rounded to the pearest	meger	dwollings
lomerations	2 $den \leq 35$ (including agglomerations)	higher than 55 dB. The number of dwallings must include		hundred and rounded to the		uwennigs
ioniciations	aggiomerations)	agglomerations		numbered and rounded to the		
				example 77 598 in this case		
				is equivalent to 77600)		
DwellingsExposedTo	Dwellings exposed to	The estimated total number of dwellings (rounded to the	с	The number of dwellings.	Integer	Number of
Lden65IncludingAgg	Lden > 65 (including	nearest hundred) exposed to values of Lden equal and		rounded to the nearest		dwellings
lomerations	agglomerations)	higher than 65 dB. The number of dwellings must include		hundred and rounded to the		0.
		agglomerations.		nearest hundred (for		
				example 77,598 in this case		
				is equivalent to 77600).		

DwellingsExposedTo Lden75IncludingAgg lomerations	Dwellings exposed to $Lden \ge 75$ (including agglomerations)	The estimated total number of dwellings (rounded to the nearest hundred) exposed to values of Lden equal and higher than 75 dB. The number of dwellings must include agglomerations.	c	The number of dwellings, rounded to the nearest hundred and rounded to the nearest hundred (for example 77,598 in this case is equivalent to 77600).	Integer	Number of dwellings
ReferenceToMaps	Reference to Maps	The map title, the author/publisher and date of production.	nc	An electronic copy of the maps submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationAndMea surementMethodsRep ortDetails	Computation and measurement methods report details	The full name of the report, the author/publisher and date of production.	с	An electronic copy of the report submitted to the EC.	String	Minimum size: 1 Maximum size: 255
ComputationMethod Name	Name of the computation method	Short name of the computation method used to made the calculations	nc	Name of the computation method	String	Minimum size: 1 Maximum size: 255

5 Spatial information expected to be provided

Two different types of information are expected to be delivered in spatial format:

- Noise contour maps for major roads, major railways, major airports and inside agglomerations, noise contour maps per each noise source (in the case of agglomerations, it is not legally mandatory by the END, but highly recommended)
- Quiet areas inside and outside agglomerations

It is not specifically indicated in the END that this information should be provided through spatial files, although it is highly recommended by the EC and by the EEA; in order to facilitate the quality check of the data reported and the inclusion of the information into the European noise database.

EC and EEA will decline responsibilities for not quality checking and therefore, not including into NOISE (Noise Observation and Information Service for Europe) those deliveries not following the specifications and guidelines provided in this annex.

5.1 Noise contour maps

Noise contour maps consist on a crucial part of the delivery corresponding to strategic noise maps, and should consist on the isophones resulting for the noise maps calculations for the different indicators specified in the END^1 : L_{den} and L_{night}.

Although noise contour maps can be delivered in any suitable format to display a map, the preferred ones are shapefiles, Arc/Info ASCII grid or GeoTIFF (detailed descriptions can be found below). Both formats would also serve the purpose of being able to develop further analysis at EU level, include this information into the European noise database, and display it, among other platforms, into NOISE.

Basic demands concerning the spatial data to be provided:

- 1. 1) Preferred GIS format: SHAPEFILES², ARC/INFO ASCII GRID³ or GeoTIFF⁴
 - a. In case of delivering shapefiles, it is expected to receive the information corresponding to the different noise bands delimited by the isophones in **POLYGONS** or in **LINES**.
- 2. Coordinate system and projection: **ETRS89 LAEA52** (if another coordinate system is used, it should be specified in the metadata file to process the data provided).

Most maps in EEA reports are presented in the following Coordinate Reference System (CRS):

¹ The END does not specify that the contour maps for major roads, major railways and major airports should be provided solely for the indicator L_{den} , although the previous paragraph of the point 2.7 solely refers to this indicator. However, it has been decided to allow the delivery of noise contours per L_{den} and L_{night} and both will be published in NOISE.

²Preferred format is shapefile because (1) major GIS software packages and all the open source desktop GIS support this format ant (2) if can be considered an open format and a de facto standard.

What is referred to as a "shapefile" is actually a set of several files. Four individual files are mandatory to store the core data that comprises a shapefile ("<a>.shp", "<a>.grj", "<a>.dbf" and "<a>.shx"; being <a> the file name, which should be the same for all the files). If a country only provides a single file with the ".shp" extension, this file cannot be used for any purpose, as it is incomplete for distribution. The other three supporting files are required.

 $^{^{3}}$ The ESRI ASCII raster format can be used to transfer information to or from other cell-based or raster systems. When an existing raster is saved as an ESRI ASCII format raster, the file will begin with header information that defines the properties of the raster such as the cell size, the number of rows and columns, and the coordinates of the origin of the raster. The header information is followed by cell value information specified in space-delimited row-major order, with each row separated by a carraige return.

⁴GeoTIFF is a public domain metadata standard which allows georeferencing information to be embedded within a TIFF file. The additional information includes map projection, coordinate systems, ellipsoids, datums, and everything else necessary to establish the exact spatial reference for the file. *Delivery guide for Environmental Noise Data: Submission of DF4_DF8* 59

Coordinate reference system	EPSG code	Name and definition	Types of coordinates	Datum
ETRS-LAEA	3035	Lambert Azimuthal Equal Area 5210 Latitude of origin: 52 N Longitude of origin (central meridian): 10 E	Map projection in meters	ETRS89

For the purpose of streamline the information of the used Coordinate Reference System (CRS) the EEA QC team recommends stating the EPSG-code instead of writing the full name and definition of the used CRS where it is possible. Lookup EPSG-codes: <u>http://www.epsg-registry.org/</u>

Information expected to be received (in shapefiles, ARC/INFO ASCII GRID or GeoTIFF):

- 1. Noise contour maps for major roads: L_{den} and L_{night}
- 2. Noise contour maps for major railways: Lden and Lnight
- 3. Noise contour maps for major airports: L_{den} and L_{night}
- 4. Road noise traffic inside agglomerations (on voluntary basis): L_{den} and L_{night}
- 5. Railway noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
- 6. Aircraft noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
- 7. Industrial noise inside agglomerations (on voluntary basis): L_{den} and L_{night}
- 8. Global noise (considering all noise sources specified in the END) inside agglomerations (on voluntary basis): L_{den} and L_{night}

All these spatial information files can also be delivered in a structured geodatabase, but this is up to each country and in this case, the contents should be clearly explained in the metadata file.

Naming conventions to upload those files in the corresponding folder of Reportnet are detailed in chapter 8.2 of the current annex.

5.1.1 Noise contour maps in shapefile format

5.1.1.1 Noise contour maps for major roads

The END specifies that "the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours".

Details for the 2 shapefiles to be reported:

Indicator	L _{den}		L _{night}
Name of the	[CountryCode]_[H	RepEntUnCode]_Mroad_Ld	[CountryCode]_[RepEntUnCode]_Mroad_
shapefile ⁵	en		Lnight
Noise bands	Requested by	Voluntary: more detailed	Voluntary:
represented by	the END (legal	division of the noise	45-49
polygons (in	obligation):	bands:	50-54
dB)	> 55-65	50-54	55-59
	> 65	55-59	60-64
		60-64	65-69
		65-69	>=70
		70-74	

	>=75	
Attribute table	- CountryCode (CTRYID)	- CountryCode (CTRYID)
	 ReportingEntityUniqueCode (RepEntUnCD) DB LOW: integer DB HIGH: integer 	 ReportingEntityUniqueCode (RepEntUnCD) DB LOW: integer DB HIGH: integer
	* In case the information is provided in LINES; only the attribute DB LOW is needed.	* In case the information is provided in LINES; only the attribute DB LOW is needed.

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.2 Noise contour maps for major railways

The END specifies that "the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours".

Details for the 2 shapefiles to be reported:

Indicator	ndicator L _{den}		L _{night}
Name of the	[CountryCode]_[I	RepEntUnCode]_Mrail_Lde	[CountryCode]_[RepEntUnCode]_Mrail_
shapefile ⁶	n		Lnight
Noise bands	Requested by	Voluntary: more detailed	Voluntary:
represented by	the END (legal	division of the noise	45-49
polygons (in	obligation):	bands:	50-54
dB)	> 55-65	50-54	55-59
	> 65	55-59	60-64
		60-64	65-69
		65-69	>=70
		70-74	
		>=75	
Attribute table	- CountryCode	(CTRYID)	- CountryCode (CTRYID)
	- ReportingEnti	tyUniqueCode	- ReportingEntityUniqueCode
	(RepEntUnCE))	(RepEntUnCD)
	- DB LOW: inte	eger	- DB LOW: integer
	- DB HIGH: int	eger	- DB HIGH: integer
	* In case the in	nformation is provided in	* In case the information is provided in
	LINES; only the a	ttribute DB LOW is needed.	LINES; only the attribute DB LOW is
			needed.

⁶ More details concerning naming conventions for spatial files can be found in section 8.2.1 *Delivery guide for Environmental Noise Data: Submission of DF4_DF8*

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.3 Noise contour maps for major airports

The END specifies that "the 55 and 65 dB contours must also be shown on one or more maps that give information on the location of villages, towns and agglomerations within those contours".

Indicator	L _{den}		L _{night}	
Name of the	[CountryCode]_[RepEntUnCode]_Mair_Lde		[CountryCode]_[RepEntUnCode]_Mair_L	
shapefile ⁷	n		night	
Noise bands	e bands Requested by Voluntary: more detailed		Voluntary:	
represented by	the END (legal	division of the noise	45-49	
polygons (in	obligation):	bands:	50-54	
dB)	> 55-65 50-54		55-59	
	> 65 55-59		60-64	
	60-64		65-69	
		65-69	>=70	
		70-74		
		>=75		
Attribute table	- CountryCode	(CTRYID)	- CountryCode (CTRYID)	
	- ICAO code		- ICAO code	
	- DB LOW: inte	eger	- DB LOW: integer	
	- DB HIGH: int	eger	- DB HIGH: integer	
		C		
	* In case the in	nformation is provided in	* In case the information is provided in	
	LINES; only the a	ttribute DB LOW is needed.	LINES; only the attribute DB LOW is	
			needed.	

Details for the 2 shapefiles to be reported:

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.1.4 Noise contour maps inside agglomerations

Noise contour maps in spatial format containing the isophones that has been used for the calculations of the strategic noise maps inside agglomerations are not compulsory to be provided, but highly recommended.

END specifies in section 1.7 of Annex VI that "In case of graphical presentation, strategic maps must at least show the 60, 65, 70 and 75 dB contours"

As in the previous cases, it is recommended to provide this information as a polygon vector data in a SHAPEFILE format.

Details of the 10 shapefiles that could be provided:

⁷ More details concerning naming conventions for spatial files can be found in section 8.2.1

Noise source	Indicator	Name of the shapefile ⁸	Noise bands represented by polygons (in dB)	Attribute table
Roads	L _{den}	[CountryCode]_[RepEntUnCode] _Aggroad_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer
	L _{night}	[CountryCode]_[RepEntUnCode] _Aggroad_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer
Railways	L _{den}	[CountryCode]_[RepEntUnCode] _Aggrail_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 > =75	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer

	L _{night}	[CountryCode]_[RepEntUnCode] _Aggrail_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer
Airports	L _{den}	[CountryCode]_[RepEntUnCode] _Aggair_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer
	Lnight	[CountryCode]_[RepEntUnCode] _Aggair_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer
Industry	L _{den}	[CountryCode]_[RepEntUnCode] _Aggind_Lden	Requested by the END (legal obligation): 60-64 65-69 70-74 > =75 Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer

	L _{night}	[CountryCode]_[RepEntUnCode] _Aggair_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	 CountryCode (CTRYID) UniqueAgglID (UnAggID) code DB LOW: integer DB HIGH: integer
All sources	L _{den}	[CountryCode]_[RepEntUnCode] _Aggall_Lden	Voluntary: more detailed division of the noise bands: 50-54 55-59 60-64 65-69 70-74 >=75	 CountryCode (CTRYID) UniqueAgglID (UnAggID) code DB LOW: integer DB HIGH: integer
	L _{night}	[CountryCode]_[RepEntUnCode] _Aggall_Lnight	Voluntary: 40-44 45-49 50-54 55-59 60-64 65-69 >=70	 CountryCode (CTRYID) UniqueAggIID (UnAggID) code DB LOW: integer DB HIGH: integer

Each shapefile should be accompanied with the corresponding metadata. More information on metadata for spatial files is detailed in section 7.2.

5.1.2 Noise contour maps in raster dataset.

A raster dataset is a "spatial data model that defines space as an array of equally sized cells arranged in rows and columns, and composed of single or multiple band. Each cell contains an attribute value and location coordinates. There are three recommended formats for raster datasets delivery.

An Esri grid is a raster GIS file format developed by Esri, which has two formats :

- 1. A proprietary binary format, also known as an ARC/INFO GRID.
- 2. A non-proprietary ASCII format, also known as an ARC/INFO ASCII GRID

The formats were introduced for ARC/INFO. The binary format is widely used within Esri programs, such as ArcGIS, while the ASCII format is used as an exchange, or export format, due to the simple and portable ASCII file structure. Most of noise modeling programs can export the results of the analysis in this format.

In the Esri ASCII grid format the header section defines the reference of the grid. The data section contains the values listed in the order they would naturally appear. An advantage for this text format is its high compression ratio. The file extension is usually .txt.

ncols 2151					
nrows 2152					
xllcorner 3541205					
yllcorner 5792285					
cellsize 10					
NODATA_value -9999					
-9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 - 🕥					
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -!					
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -!					
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -					
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -					
9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -9999 -					
9999 -999					
73 76 80 78 79 75 73 71 69 68 67 65 62 62 60 56 55 58 57 56 57					
53 53 54 55 55 54 54 54 55 54 54 53 50 49 50 49 50 51 50 51 51					
50 51 51 51 51 51 49 50 53 54 54 54 55 57 56 58 59 60 51 66 69					
53 49 50 50 48 50 51 50 50 49 50 50 51 52 52 52 51 51 52 52 52					
51 51 51 51 51 51 51 51 51 51 51 51 51 5					
65 60 57 56 54 48 50 50 51 51 51 49 50 50 50 50 50 50 50 50 50 50					

The data component of the ESRI ASCII raster follows the header information.

- Cell values should be delimited by spaces (in dB)
- No carriage returns are necessary at the end of each row in the raster. The number of columns in the header determines when a new row begins.
- Row 1 of the data is at the top of the raster, row 2 is just under row 1, and so on.

3. Another format for raster datasets delivery is GeoTIFF (Geographic Tagged Image File Format).

The GeoTIFF has become an industry image standard file for GIS and satellite remote sensing applications. All GIS and image processing software packages have GeoTIFF compatibility. GeoTIFFs get the file extension TIF and may be accompanied by other files:

- TFW: is a world file that gives the raster geolocation. As most GIS software store this information in the header of the TIF file, this world file is not often needed as a separate entity. Therefore, this file is optional.
- AUX: although the aux file can and does store projection and coordinate information, it also stores information that is NOT normally encoded in the header such as raster statistics, colour maps and pointers to the pyramids file (RRD). Nevertheless, this file is optional with regard to these guidelines.
- XML: it is the metadata file. It is mandatory to provide this file together with the GeoTIFF.
- RRD: it stands for "Reduced Resolution Dataset" and it stores a reduced dataset from an original raster image using pyramid layers, which speed up the display of raster maps. It is an optional file.
These formats are applicable to all noise sources that are listed below.

Noise contour maps for Major Roads, Major Railways, Major Airports		
Noise source	Indicator	Name of the ASCII Grid or TIF file
Major Roads	L _{den}	[CountryCode]_[RepEntUnCode]_Mroad_Lden
	L _{night}	[CountryCode]_[RepEntUnCode]_Mroad_Lnight
Major Railways	L _{den}	[CountryCode]_[RepEntUnCode]_Mrail_Lden
	L _{night}	[CountryCode]_[RepEntUnCode]_Mrail_Lnight
Major Airports	L _{den}	[CountryCode]_[RepEntUnCode]_[ICAOcode]_Mair_Lden
	Lnight	[CountryCode]_[RepEntUnCode]_[ICAOcode]_Mair_Lnight

Noise contour maps for agglomerations		
Noise source	Indicator	Name of the ASCII Grid or TIF file
Roads	L _{den}	[UniqueAgglomerationID]_Aggroad_Lden
	L _{night}	[UniqueAgglomerationID]_Aggroad_Lnight
Railways	L _{den}	[UniqueAgglomerationID]_Aggrail_Lden
	L _{night}	[UniqueAgglomerationID]_Aggrail_Lnight
Airports	L _{den}	[UniqueAgglomerationID]_Aggair_Lden
	Lnight	[UniqueAgglomerationID]_Aggair_Lnight
Industry	L _{den}	[UniqueAgglomerationID]_Aggind_Lden
	L _{night}	[UniqueAgglomerationID]_Aggair_Lnight
All sources	L _{den}	[UniqueAgglomerationID]_Aggall_Lden
	Lnight	[UniqueAgglomerationID]_Aggall_Lnight

5.2 Quiet areas

The Environmental Noise Directive deals with quiet areas in:

- Article 3: Definitions, where it is defined:
 - (l) "quiet area in an agglomeration" shall mean an area, delimited by the competent authority, for instance which is not exposed to a value of Lden or of another appropriate noise indicator greater than a certain value set by the Member State, from any noise source;
 - (m) "quiet area in open country" shall mean an area, delimited by the competent authority, that is undisturbed by noise from traffic, industry or recreational activities;
- Article 11: Review and reporting, where in section 2 (C) is mentioned "the protection of quiet areas in open country"

- and in Annex V: Minimum requirements for action plans, where it is stated:
 - actions which the competent authorities intend to take in the next five years, including any measures to preserve quiet areas,.

However, no clear demands on which data should be reported concerning quiet areas are provided and therefore, it is up to MS to report this information in following their preferred method, within this reporting obligation and / or within the reporting of noise action plans.

It is recommended that, for evaluation purposes and further analysis of the information provided, the delineation of the quiet areas (both, inside and outside agglomerations) would be delivered as:

1) Preferred format: SHAPEFILES⁹

2) Expected entities that will represent the noise contours: **POLYGONS** (limits of the polygon should correspond to the limits of the quiet area)

3) Coordinate system and projection: **ETRS89 - LAEA52** (if another coordinate system is used, it should be specified in the metadata file in order to process the data provided).

Most maps in EEA reports are presented in this CRS:

Coordinate reference system	EPSG code	Name and definition	Types of coordinates	Datum
ETRS-LAEA	3035	Lambert Azimuthal Equal Area 5210 Latitude of origin: 52 N Longitude of origin (central meridian): 10 E	Map projection in meters	ETRS89

For the purpose of streamline the information of the used Coordinate Reference System (CRS) the EEA QC team recommends to state the EPSG-code instead of writing the full name and definition of the used CRS where it is possible. Lookup EPSG-codes: <u>http://www.epsg-registry.org/</u>.

4) Attribute table: it is only expected a provision of a "definition code", as all the necessary information to understand how the quiet area has been delimited, the reference year, who has done it, etc. should appear in the metadata file of the shapefile with the definition code that can be found in the attributes table.

It is expected to receive one shapefile containing all the quiet areas for a single agglomeration (so, depending on the number of agglomerations present in one country, it will be expected X number of shapefiles) and another one reporting all quiet areas outside agglomerations, covering all the country (so it is expected that, all noise sources – Major roads, Major railways and Major airports – would be taken into account to delineate the quiet areas outside agglomerations reported). Partial reports could be provided, although the coverage should be specified in the metadata file accompanying the shapefiles.

Details of the shapefile that could be provided:

⁹Preferred format is shapefile because (1) major GIS software packages and all the open source desktop GIS support this format ant (2) if can be considered an open format and a de facto standard.

What is referred to as a "shapefile" is actually a set of several files. Four individual files are mandatory to store the core data that comprises a shapefile ("<a>.shp", "<a>.prj", "<a>.dbf" and "<a>.shx"; being<a> the file name, whichshould be the same for all the files). If a country only provides a single file with the ".shp" extension, this file cannot be used for any purpose, as it is incomplete for distribution. The other three supporting files are required.

Name of the shapefile ¹⁰	[CountryCode]_[ReportingEntityUniqueCode]_QAREA.[extension]		
Attribute table	- CountryCode (CTRYID)		
	- ReportingEntityUniqueCode (RepEntUnCD)		
	- TypQArea. Possible values:		
	- OC: if the quiet area is in open country		
	- IN: if the quiet area is in an agglomeration		
	- UnAggID code. Possible values:		
	- "-1": if the quiet area is in open country		
	- If the quiet area is inside an agglomeration, then provide the UniqueAgglomerationID (UnAggID).		

¹⁰More details concerning naming conventions for spatial files can be found in section 8.2.2 *Delivery guide for Environmental Noise Data: Submission of DF4_DF8*

6 Supplementary information

You can provide any other types of information that you think are relevant for consultation purposes (letters, clarification documents, etc). This information will be solely stored, and will not be analysed, so be sure that all the relevant information is provided in the fulfilled templates, in the shapefiles or in the metadata sections accompanying all the files.

It is requested that a short text file (to be used as metadata of the supplementary information provided) would be stored in the same folder detailing, in English:

- The title of the supplementary information
- Language used in the report
- Short description of the information contained in this report (recommended length: from half a page to one page).

7 Metadata

In order to be able to deal with the data provided, it is very important to provide some information about the data itself.

Therefore, several metadata files are asked to be provided accompanying the information reported. These files should be written down in English.

7.1 Metadata for tabular data to compile noise exposure

The metadata file should contain the following information:

- Title of the file that the metadata is referring to
- Reference year: in which year this information has been created and delivered / published
- Responsible organisation: Name of the organisation creating the data
- Contact person: Name of the contact person in the responsible organisation and contact details
- Census year of the population used for the calculations
- Year when the traffic flow has been determined
- Method used for the calculations (in the future, there will be only 2 options: Simple C-NOSSOS method and Detailed C-NOSSOS method, but for nowadays, it can also be specified Interim methods or any national method used)
- Constraints of the method
- Constraints of the data (e.g. major roads inside agglomerations not used in the calculations, how dwellings have been taken into account,...)

7.2 Metadata for the shapefiles containing noise contour maps

Metadata information that should be associated to each shapefile containing noise contour maps:

- Name of data: title of the data
- Description of data: Which is the content of the data and purpose of its creation
- Coordinate reference system
- Source and methodology including version of specification on which the compilation is based
- Reference year: in which year this information has been created and delivered / published
- Responsible organisation: Name of the organisation creating the data
- Contact person: Name of the contact person in the responsible organisation and contact details
- Ownership: to whom the data belongs
- Use rights: if the data can be distributed worldwide, restrictions, possibility to use depending on the purpose,...

EEA recommends creating metadata for the spatial files according to the INSPIRE implementing rules. Some resources are available in the INSPIRE geoportal like the Metadata editor (<u>http://inspire-</u>

<u>geoportal.ec.europa.eu/editor/</u>). Its main purpose is to help create metadata compliant with the INSPIRE Directive $(2007/2/EC)^{11}$

If using ArcGIS software, it is an option to use the INSPIRE metadata style inside ArcCatalog by going into *Customize>ArcCatalog Options>* Select *Metadata* and in the Metadata Style select *INSPIRE Metadata Directive*.

7.3 Metadata for the shapefiles containing quiet areas

Metadata information that should be associated to each shapefile containing quiet areas:

- Name of data: title of the data
- Description of data: Which is the content of the data and purpose of its creation
- Coordinate reference system
- Source and methodology including version of specification on which the compilation is based: Description on how the quiet areas delineation has been done (based on acoustics, leisure parks, etc.) and which data has been used for its creation.
- Reference year: in which year this information has been created and delivered / published
- Coverage: Quiet areas inside a specific agglomeration, covering the whole country, covering part of the country...
- Responsible organisation: Name of the organisation creating the data
- Contact person: Name of the contact person in the responsible organisation and contact details
- Ownership: to whom the data belongs
- Use rights: if the data can be distributed worldwide, restrictions, possibility to use depending on the purpose,...

Nevertheless, more information can be provided, if desired. If this is the case, it can be used the metadata standard for geodata developed by the EEA, and detailed in the previous section 7.2.

7.4 Metadata for the Supplementary information

Detailed information provided in section 6.

¹¹http://eur-lex.europa.eu/JOHtml.do?uri=OJ:L:2007:108:SOM:EN:HTML

8 Naming conventions

8.1 Tabular files name

The files containing tabular data should follow the naming convention proposed below:

	del]
[CountryCode]_[ReportingEntityUniqueCode]_DF4_8_[RefYear]_	}	}
	upd(date)	J

Where:

- [CountryCode] corresponds to the ISO code for the country (2 digits)
- [ReportinEntityUniqueCode] corresponds to the reporting entity unique code specified by the country
- [RefYear] corresponds to the year when the deliverable should be done (four digits);
- "del" refers to "deliverable" and corresponds to the first time that a country provide information for this reporting obligation in a specific reference year;
- "upd" refers to "update" and corresponds to the updates of the information corresponding to the reporting obligation for a specific reference year of the END (i.e. when the information reported under del is not complete or does not contain the complete expected coverage);
- and (date) is the date when the update of information to the same reporting obligation is done. Date format is year (two digits), month (two digits) and day (two digits): yymmdd.

Examples:

ES_a_DF4_8_2012_del.xls

ES_a_DF4_8_2012_upd130623.xls

8.2 Spatial files name

8.2.1 Noise contour maps

The spatial files (SHP)¹² to be uploaded in the corresponding folder in Reportnet should follow the naming convention proposed below:

¹²Mandatory files :

[.]shp — shape format; the feature geometry itself

[.]shx — shape index format; a positional index of the feature geometry to allow seeking forwards and backwards quickly

[.]dbf — attribute format; columnar attributes for each shape, in dBase IV format

[.]prj — projection format; the coordinate system and projection information, a plain text file describing the projection using well-known text format. Optional files :

[.]shp.xml - geospatial metadata in XML format, such as ISO 19115 or other schemas

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- Agglomerations' case:

- Roads:

[CountryCode]_[ReportingEntityUniqueCode]_Aggroad_[Indicator].[extension]

If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Aggroad_[Indicator]upd¹³.[extension]

Example:	SHAPEFILES	FILES
	HU_a_Aggroad_Lden	HU_a_Aggroad_Lden.shp HU_a_Aggroad_Lden.dbf HU_a_Aggroad_Lden.prj
		HU_a_Aggroad_Lden.shx HU_a_Aggroad_Lden.shp.xml
	HU_a_Aggroad_Lnight	HU_a_Aggroad_Lnight.shp HU_a_Aggroad_Lnight.dbf
		HU_a_Aggroad_Lnight.prj
		HU_a_Aggroad_Lnight.shx
		HU_a_Aggroad_Lnight.shp.xml

- Rails: [CountryCode]_[ReportingEntityUniqueCode]_Aggrail_[Indicator].[extension] If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Aggrail_[Indicator]upd¹⁴.[extension]

Example:	SHAPEFILES	FILES
	HU_a_Aggrail_Lden	HU_a_Aggrail_Lden.shp HU_a_Aggrail_Lden.dbf HU_a_Aggrail_Lden.prj HU_a_Aggrail_Lden.shx
		HU_a_Aggrail_Lden.shp.xml
	HU_a_Aggrail_Lnight	HU_a_Aggrail_Lnight.shp HU_a_Aggrail_Lnight.dbf HU_a_Aggrail_Lnight.prj HU_a_Aggrail_Lnight.shx
		HU_a_Aggrail_Lnight.shp.xml

- Airports: [CountryCode]_[ReportingEntityUniqueCode]_Aggair_[Indicator].[extension] If there is an update of the spatial information, then:

¹³Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁴Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

Example:	SHAPEFILES	FILES
	HU_a_Aggair_Lden	HU_a_Aggair_Lden.shp HU_a_Aggair_Lden.dbf HU_a_Aggair_Lden.prj HU_a_Aggair_Lden.shx HU a Aggair Lden.shp.xml
	HU_a_Aggair_Lnight	HU_a_Aggair_Lnight.shp HU_a_Aggair_Lnight.dbf HU_a_Aggair_Lnight.prj HU_a_Aggair_Lnight.shx HU_a_Aggair_Lnight.shp.xml

[CountryCode]_[ReportingEntityUniqueCode]_Aggair_[Indicator]upd¹⁵.[extension]

- Industry: [CountryCode]_[ReportingEntityUniqueCode]_Aggind_[Indicator].[extension] If there is an update of the spatial information, then:

Example:	SHAPEFILES	FILES
	HU_a_Aggind_Lden	HU_a_Aggind_Lden.shp HU_a_Aggind_Lden.dbf HU_a_Aggind_Lden.prj HU_a_Aggind_Lden.shx HU_a_Aggind_Lden.shp.xml
	HU_a_Aggind_Lnight	HU_a_Aggind_Lnight.shp HU_a_Aggind_Lnight.dbf HU_a_Aggind_Lnight.prj HU_a_Aggind_Lnight.shx HU_a_Aggind_Lnight.shp.xml

[CountryCode]_[ReportingEntityUniqueCode]_Aggind_[Indicator]upd¹⁶.[extension]

- **Major roads' case**: [CountryCode]_[ReportingEntityUniqueCode]_Mroad_[Indicator].[extension] If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mroad_[Indicator]upd¹⁷.[extension]

	SHAPEFILES	FILES
Example:	HU_a_Mroad_Lden	HU_a_Mroad_Lden.shp HU_a_Mroad_Lden.dbf HU_a_Mroad_Lden.prj HU_a_Mroad_Lden.shx HU_a_Mroad_Lden.shp.xml

¹⁵Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁶Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁷Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

HU_a_Mroad_Lnight	HU_a_Mroad_Lnight.shp HU_a_Mroad_Lnight.dbf HU_a_Mroad_Lnight.prj HU_a_Mroad_Lnight.shx
	HU_a_Mroad_Lnight.shp.xml

- **Major railways' case**: [CountryCode]_[ReportingEntityUniqueCode]_Mrail_[Indicator].[extension] If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mrail_[Indicator]upd¹⁸.[extension]

	SHAPEFILES	FILES
	HU_a_Mrail_Lden	HU_a_Mrail_Lden.shp HU_a_Mrail_Lden.dbf
		HU_a_Mrail_Lden.prj
Example:		HU_a_Mrail_Lden.shx
		HU_a_Mrail_Lden.shp.xml
	HU_a_Mrail_Lnight	HU_a_Mrail_Lnight.shp
		HU_a_Mrail_Lnight.dbf
		HU_a_Mrail_Lnight.prj
		HU_a_Mrail_Lnight.shx
		HU_a_Mrail_Lnight.shp.xml

- **Major airports' case**: [CountryCode]_[ReportingEntityUniqueCode]_Mair_[Indicator].[extension] If there is an update of the spatial information, then:

[CountryCode]_[ReportingEntityUniqueCode]_Mair_[Indicator]upd¹⁹.[extension]

Example:	SHAPEFILES	FILES
	HU_a_Mair_Lden	HU_a_Mair_Lden.shp HU_a_Mair_Lden.dbf HU_a_Mair_Lden.prj HU_a_Mair_Lden.shx
		HU_a_Mair_Lden.shp.xml
	HU_a_Mair_Lnight	HU_a_Mair_Lnight.shp HU_a_Mair_Lnight.dbf HU_a_Mair_Lnight.prj HU_a_Mair_Lnight.shx
		HU_a_Mair_Lnight.shp.xml

¹⁸Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

¹⁹Upd when the file delivered is the update of a previous file with the same name. This update must contain all the information and not only the updated parts.

8.2.2 Quiet areas

The spatial files to be uploaded in the corresponding folder in Reportnet should follow the naming convention proposed below:

[CountryCode]_[ReportingEntityUniqueCode]_QAREA.[extension]

Example:	SHAPEFILE	FILES
	HU_a_QAREA	HU_a_QAREA.shp HU_a_QAREA.dbf HU_a_QAREA.prj HU_a_QAREA.shx HU_a_QAREA.shp.xml

9 Quality check process

The items checked in the data reported are the following ones:

- Items checked in the Reportnet's QA process:
 - data specifications data types, to ensure that data is within the range defined in the guidelines documents,
 - all the mandatory elements have been reported,
 - code conventions
 - the existence of duplicates in unique codes fields.
- Mandatory data has been filled in with a "-2" value.
- Correspondence of unique codes between different dataflow and/or updates of the same dataflow.
- Correspondence of unique codes between tabular information and spatial information being reported.
- Outliers to identify problems with data reported, assuming that numbers have been reported rounded to the nearest hundred.
- Reporting coverage, to be sure that the information has been provided for all the expected reporting units.
- Coordinate Reference System (CRS) is ETRS89 LAEA52
- Coordinates of the spatial information are inside the European territory.
- Geometry of the data being provided, either points, lines or polygons, have an acceptable structure and topology (e.g. are polygons closed and lines forming networks linked properly to nodes?)
- Geometric accuracy, coordinate reference system and file format follow specifications.
- Metadata has been provided, including aspects of accuracy, coordinate system, methodology and source. A document listing the requested information is available from http://www.eionet.europa.eu/gis/geographicinformationstandards.html.

More information concerning spatial information can be found in the EEA GIS guide in <u>http://www.eionet.europa.eu/gis/</u>.