

Project:

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2014-09-29 15:42 / 1

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DECIBEL - Assumptions for noise calculation

Noise calculation model:

ISO 9613-2 Poland

Wind speed:

8,0 m/s

Ground attenuation:

General, Ground factor: 0,7

Meteorological coefficient, C0:

0,0 dB

Type of demand in calculation:

1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:

All noise values are mean values (Lwa) (Normal)

Pure tones:

Pure and Impulse tone penalty are added to WTG source noise

Height above ground level, when no value in NSA object:

4,0 m Allow override of model height with height from NSA object

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:

0,0 dB(A)

Octave data required

Air absorption

63	125	250	500	1 000	2 000	4 000	8 000
[db/km]	[db/km]	[db/km]	[db/km]	[db/km]	[db/km]	[db/km]	[db/km]
0,1	0,4	1,0	1,9	3,7	9,7	32,8	117,0

WTG: VESTAS V112 3000 112.0 !O!

Noise: Level 0 - Mode 0 - - 08-2010

Source	Source/Date	Creator	Edited
Manufacturer	2010-08-27	EMD	2010-10-26 13:56

Octave data

Status	Hub height	Wind speed	LwA,ref	Pure tones	63	125	250	500	1000	2000	4000	8000
	[m]	[m/s]	[dB(A)]		[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
User value	100,0	8,0	106,5	No	90,4	95,9	96,5	99,0	101,8	99,7	94,8	84,6

WTG: SWT 3.5 MW 3500 130.0 !O!

Noise: Level 0 - Mode 0 - - 07-2013

Source	Source/Date	Creator	Edited
Manufacturer	2013-07-12	USER	2014-04-24 08:36

Based on Document no.: 0035-8703 V02 2013-07-12.

Octave data

Status	Hub height	Wind speed	LwA,ref	Pure tones	63	125	250	500	1000	2000	4000	8000
	[m]	[m/s]	[dB(A)]		[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
User value	100,0	8,0	106,0	No	82,5	93,4	97,1	101,1	101,1	97,4	90,2	86,2