BN12 4TW

Distance	6.4
Barrier	Fully Seen
Heat Pump	EDLA06E2…
Reflecting Surfaces	1
Outcome	**42.54**
Result	**Fail - Planning Required**

MCS 020 - Manual Sound Calculator

Assessment Details

Heat pump model is EDLA06E2V3 and it is 6.4 metres from the assessment window.
There is 1 Reflecting Surface and it is Fully Seen.
The assessment position is one metre perpendicular to the centre of the closest habitable room.

Step	Instructions	MCS contractor results/notes
1	**From manufacturer's data, obtain the A-weighted sound power level of the heat pump. See 'Note 1:Sound power level'. The highest sound power level specified should be used**	**60**
2	**Use 'Note 2: Sound pressure level' and 'Note 3: Determination of directivity' below to establish the directivity 'Q' of the heat pump noise.**	**Q4**
3	**Measure the distance from the heat pump to the assessment position in metres**	**6.4**
4	**Use table in 'Note 4: dB distance reduction' below to obtain a dB reduction**	**-20.9**
5	**Establish whether there is a solid barrier between the heat pump and the assessment position using 'Note 5: Barriers between the heat pump and the assessment position' and note any dB reduction**	**0**
6	**Calculate the sound pressure level from the heat pump at the assessment position using the following calculation: (STEP 1) + (STEP 4) + (STEP 5)**	**39.1**
7	**Background noise level. For the purposes of the MCS Planning Standard for air source heat pumps 40 dB(A) the background noise level is assumed to be 40 dB(A) Lp.**	**40**
8	**Determine the difference between background noise level and the heat pump noise level using the following calculation: (STEP 7) - (STEP 6)**	**0.9**
9	**Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whiever is the higher dB figure from STEP 6 and STEP 7.**	**42.54**
10	**Final Result?**	**Fail - Planning Required**