

Step	Instructions	MCS contractor results/ note	
1	From manufacturer's data, obtain the A-weighted sound power level	STEP 1 RESULT= 62	
2	Use 'Note 2: Sound pressure level' and 'Note 3: Determination of	STEP 2 RESULT= 8	
3	Measure the distance from the heat pump to the assessment position	STEP 3 RESULT= 2.5	
4	Use table in 'Note 4: dB distance reduction' below to obtain a dB	STEP 4 RESULT= -8	
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. <i>Example. There is a brick wall between the heat pump and the assessment position. Moving less than 25cm enables the assessment position to be seen. dB reduction = -5 dB</i>	STEP 5 RESULT= 0	
6	Calculate the sound pressure level (see 'Note 2: Sound pressure	STEP 6 RESULT= 54	
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. For information see 'Note 6: MCS Planning Standard for air source heat pumps background noise level'. <i>Example. Background noise level is 40 dB(A)</i>	STEP 7 RESULT= 40	
8	Determine the difference between STEP 7 background noise level and the heat pump noise level using the following calculation: (STEP 7) - (STEP 6) <i>Example: 40dB(A) (background) - 33dB(A) (heat pump) = 7dB(A).</i>	STEP 8 RESULT= -14	
9	Using the table in 'Note 7: Decibel correction' obtain an adjustment figure and then add this to whichever is the higher dB figure from STEP 6 and STEP 7. Round this number up to the nearest whole number. <i>Example: Adjustment figure is 0.8dB and the higher figure is 40dB(A). 40 + 0.8 = 40.8dB(A) Rounded up to 41dB(A) Final result at this assessment position is 41dB(A).</i>	FINAL RESULT = 54 fail	
10	Is the FINAL RESULT in STEP 9 equal to or lower than the permitted development noise limit of 42.0 dB(A)? If YES - the air source heat pump will comply with the permitted development noise limit for this assessment position and may be permitted development (subject to the compliance with other permitted development limitations/conditions and parts of this standard). NOTE - Other assessment positions may also need to be tested. If NO - the air source heat pump will not be permitted development. This installation may still go ahead if planning permission is granted by the local planning authority. <i>Example: 41dB(A) is equal to or lower than 42.0dB(A)</i>	Fail (12db over)	