

AS8175 UCLH PH4 PBT

Review of Drop-off Zone Noise, Condition 33

Car door slam L_{Amax} @ 1m	85 dB
Assume as point source; L_{WA}	96 dB

Assume no sound energy absorbed within drop-off zone, all energy radiates onto Grafton Way via entrance opening

Area of opening (45m x 3.4m)	153 m ²
Sound pressure level at the opening, L_{Amax}	74 dB

Assume opening acts as virtual plane source

Distance loss to Maple House (22m) using Rathe	-15 dB
Effect of road surface (perfectly reflecting)	3 dB

Sound level incident on Maple House, L_{Amax}	62 dB
---	-------

Typical Grafton Way L_{Amax} (daytime, pre-development)	78 - 80 dB
---	------------