



MASON Acoustics Limited

Noise Mitigation Measure at Demolition Site

Use of Acoustic Barrier Mat on Hoarding

Queen's Pier Demolition Project, Central

With aims of relieving the traffic congestion in Central District and future Central-Wanchai Bypass, Central Reclamation Phase III Work has been commenced. In order to facilitate the better use of land, "Queen's Pier"- a historical building in Central was demolished in 2007.

Demolition work creates significant noise nuisance

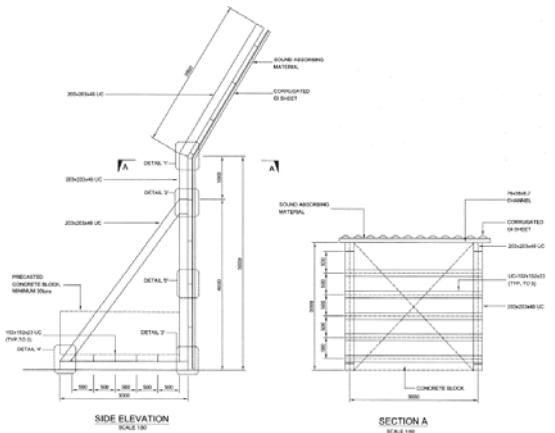
The City Hall was the most sensitive noise receiver to the demolition works. This hall is closely situated behind the Queen's Pier demolition site, and comprised of several public facilities, including theatres, concert hall, exhibition halls, galleries, marriage registry and library. However, the operation of heavy demolition machines (such as hydraulic breakers and excavators) has reached the noise level over 95dB(A). It significantly creates high level of noise nuisance at the Hall.

Construction Noise Mitigation Solution

Use of Acoustic Noise Barrier reinforced Hoarding

Since the Hall is a major facility in CBD, the contractor had adopted several measures to minimize the noise nuisance generated from demolition activities. Placement of noise barrier mat onto the hoarding is one of noise mitigation measure adopted by the Contractor.

The contractor erected hoarding as high as 4m with tilting angle on the top to stop noise affecting the City Hall. Hundreds of special designed hoarding made out of metal frame, corrugated metal sheet and vinyl-loaded acoustic barrier mat are installed.



Reduces the transmission of noise with level of around 20dB(A)

Over 200 rolls of 5kg/m² barrier mat (provided by MASON Acoustics Limited) is affixed at the back of hoarding to reinforce the mass and density of hoarding. The reinforced hoarding greatly reduces the transmission of noise with level of around 20 dB(A) on average and allows all the cultural events can be held as schedule.

About the Noise barrier mat

The employed barrier mat could be easily cut to any size and shape that perfectly fit to different applications, for example, acoustic lining material of enclosure for powered mechanical equipments, even large-sized enclosure at tunnel construction site.



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