

## 3617 – The installation of the extract vents at 146 Union Street & 1-3 Union Terrace



In order to provide air supply and extraction to rooms which face Union Street & Union Terrace, a series of extract vents and fresh air intake vents need to be installed at the rear of the building (south elevation).

Due to the category A listing of this building, all the proposed vents have been kept on the rear of the building to ensure no visual impact of the building from Union Street and Union Terrace.

To ensure compliance with the current building regulations, the proposed extract vents are required to be certain distances from openable windows.

For proposed locations of these extract vents, please see drawing PL(04)001 (proposed elevations).

The existing external granite walls comprise of approx.500mm thick solid granite exterior which will need to be cored in order for the services to pass through. Using diamond core drills a series of holes are to be cored through the granite.

The coring bits are impregnated with an industrial diamond cutting surface to ensure the fastest possible cutting and ensuring consistent sized holes of uniform diameter. Using non-percussive diamond drills, the structural integrity of the building will not be impacted. There are also several dust control solutions. Using the diamond core drills provides minimal vibration and noise during operation.

Once cored, the holes are to be suitably lined, fire rated where required, and fitted with grey extract vent grills.