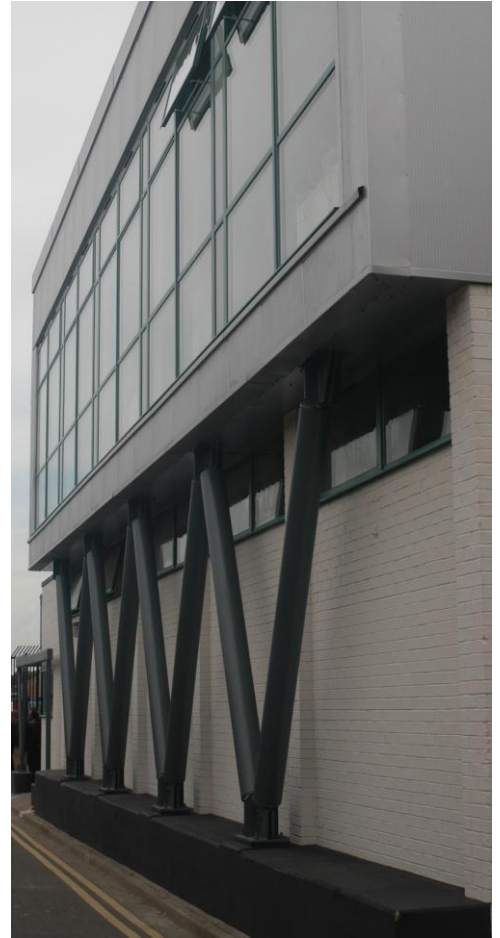

CoVE Gas Training Centre, Grimsby



Client: Grimsby College
Architect: SCNG
Structural Engineer: Melia Smith & Jones

The client had an existing teaching facility with expertise in natural gas appliances. It obtained funding to expand as a 'Centre of Vocational Excellence - CoVE'.

Their existing building was a single storey traditionally built shed which had been converted to practical training spaces. The brief was to double the building footprint to incorporate teaching rooms and offices without loading the existing building.



The ground conditions consisted of a firm crust of clay overlying soft clay down to chalk some 20m away. Melia Smith & Jones devised a light weight structure bearing onto long strip footings to spread load and predicted settlements to acceptable limits and without the need to pile.

The new structure was supported on an independent steel frame which was held above the existing building without imposing any load onto it.

The supporting structure was expressed as part of the architecture and supports a room height vierendeel girder to the glazed elevation which supported the new floor and roof above the existing.

A copper faced cladding system was also specified to new office accommodation, this area had to be built off the existing. A timber stud panel system was adopted which offered light weight and strength.



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