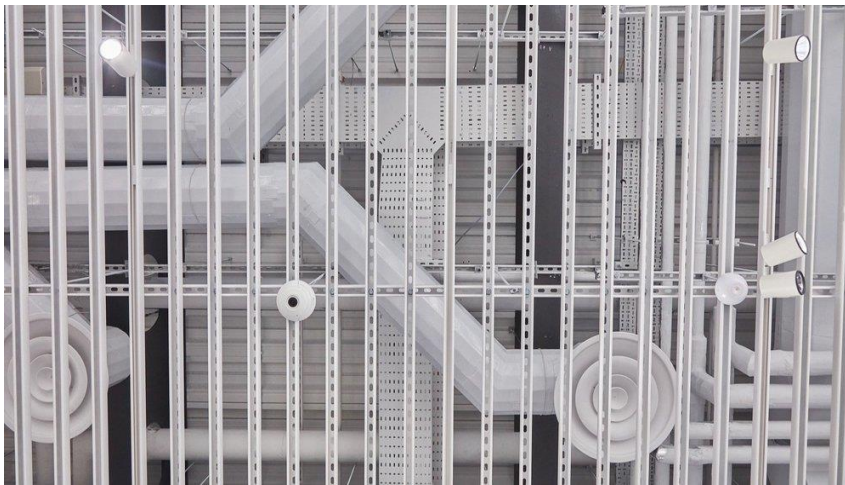


## Coated Phenolic Insulation Constructed Ductwork

Creating high performance, non-metallic pre-insulated ductwork that can replace the need for galvanised steel, aluminium and GRP options.

The sidewalls are created using flat panels of high-density phenolic insulation with a heat reflective reinforced foil outer skin, and a coated inner surface for minimum drag.

Usable internally and externally to the building the lightweight elements are offsite manufactured from the Revit model and delivered to site for minimum onsite modification. Their lightweight structure means that adaptation in retrofits is simple, with additional “standard” parts being available, or specific modified elements can be manufactured and delivered to site with junctions being designed inhouse at their UK facility. This removes the requirement for wholesale removal of the existing system, and the opportunity to reuse elements of the design removed for modification.



### Benefits:

- Up to 75% lower CO2 footprint when compared to GSS sections
- up to 45% energy saving due to the high-performance insulation the ducts are created from, having less thermal absorption and energy loss of the treated air inside.
- up to 85% lighter, meaning less delivery CO2 omitted, less energy expended on moving elements around site, and working from height issues removed as the elements are simpler to manipulate into place.
- Greater flexibility in design as the segmented forms are created from a flat panel that can be easily cut to form complexed forms at the factory, without the need for manipulation of existing circular or box section elements.
- Option for internal surface sculpting to create vortex or elimination of turbulence in direction change.
- Better acoustic performance than traditional ductwork, without the need for post installation protection.
- Better working environment for the workforce crating the ductwork at the factory.
- Lower material, transport and labour cost.
- Reduced site wastage, with Zero Waste Target being an option in manufacturing.
- BIM target option and accuracy dependant.