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## Queen Mary University Library Fabric Ducting

The new Library at QMU in London is more than a library, it's been designed as a meeting and working space, with areas to relax and socialise and tables for eating from the library food bar. The ground floor area runs deep into the building and lighting has been provided that creates an interesting and relaxing environment by regularly changing colours with deep hues of Red, Purple and Green. Clearly a lot of thought has gone into the design making the space inviting and mixed purpose.



Within this environment Prihoda UK has designed alongside services consultant Mendick Waring, several systems of Textile Diffusers designed to provide Tempered Fresh Air to all of the ground floor library spaces.

The Bright Red Textile Diffusers are either exposed against a stark black ceiling or partially exposed between different styles of ceiling furniture – mostly open slats allowing air to filter through into the occupied zone.

PRIHODA supplied a Flame Retardant Material that also has a Anti Microbial treatment designed to prevent any microbial build up directly on the interior of the ducts caused by water carry over from the AHU's. The air is diffused through tiny laser cut 0.4mm Micro-perforations positioned all over the diffuser circumference. This specially designed method of delivery (unique to Prihoda) ensures that little or no dust becomes trapped by squeezing the air through the weave of the material in the traditional way, resulting in much less maintenance being required over the systems lifetime.

Prihoda worked with JSMS the Mechanical Contractor to ensure the smooth delivery of this complex project. There were many plenums, branches and bends of different angles. The programme and fast manufacturing time allowed for most of the suspension to be installed prior to the Textile Diffusers being cut and sewn at the factory, final measurements for complex sets were then measured in situ and the diffusers once made were simply slid into place and zipped together, just prior to commissioning.

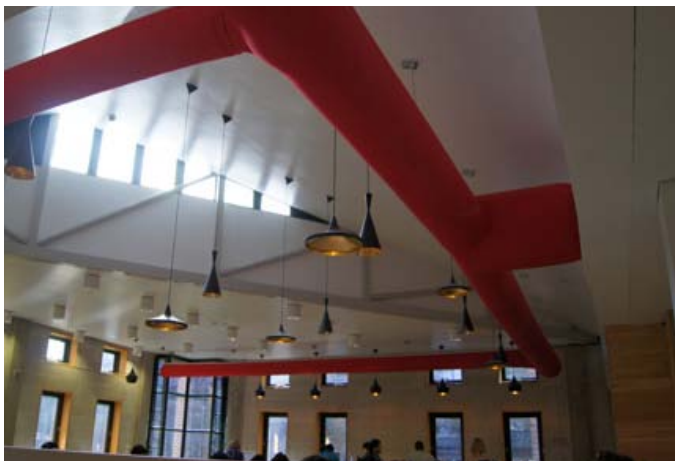
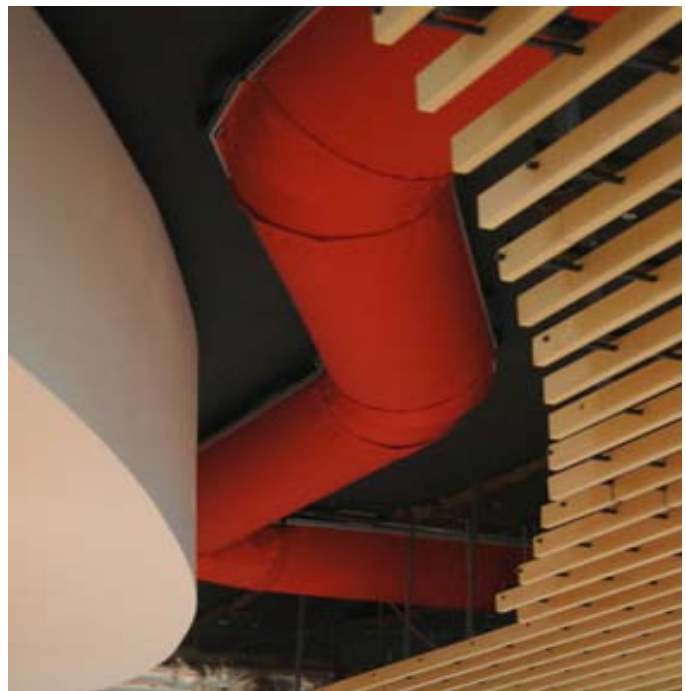
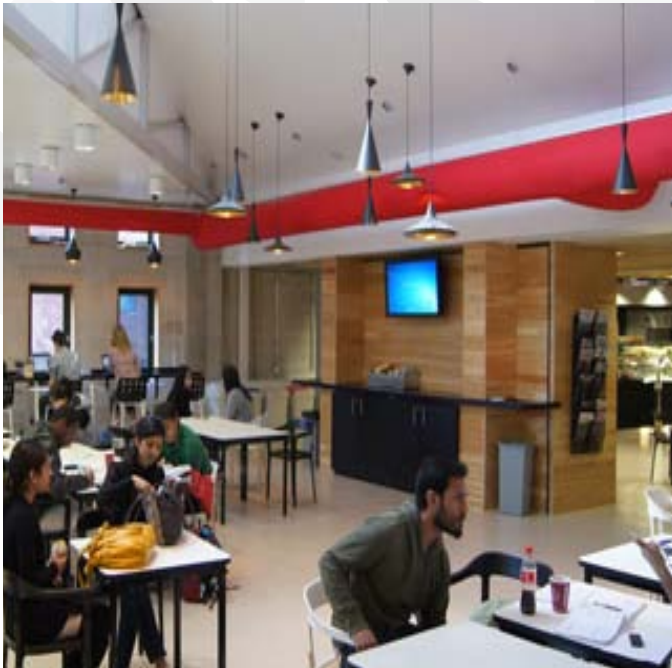
**PRIHODA Textile Diffusers are available in a range of 9 standard colours all at no additional cost.**



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### Project information:

Services Consultant: Mendick Waring

M&E Contractor : JSMS Ltd

Site : QMU Mile End London

Design Time: 2 weeks

Manufacturing time: 4 weeks

Total systems air volume: 7.91m<sup>3</sup>/s

Recommended External Static pressure in this case: 100pa

No velocity higher than 4.0m/s for noise reasons.

- Bends, Transitions and Offsets are all usually achieved in Textiles.
- Warranty is 10 years from date of delivery on both the material supplied and the efficacy of the Anti Microbial Treatment (impregnated with Silver).



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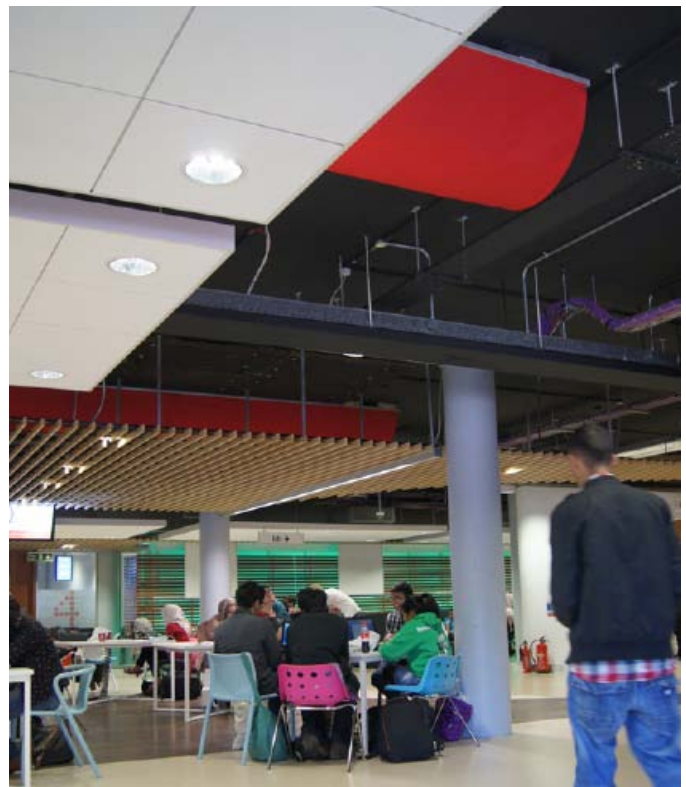
## Queen Mary University Library Fabric Ducting



Smaller system ventilates a sorting and administration area



Part of a larger system running the length of a meeting and working area



The Textile Diffusers provide a contrast against the dark ceiling and ceiling architecture

- Permeable, Non permeable
- Laser perforations
- Anti-Microbial, Antistatic
- 10 years warranty

- 9 Colours (no additional cost)
- Cleanroom Quality
- Low purchase cost
- Fast installation time