



prihoda[®]
Tailor-made Air Ducting&Diffusers
UK & EIRE

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Eden Project

Working with Eden Project engineers, PRIHODA was specified to design and supply high quality Fabric Ducting systems for the Eden Project restaurant area.

The restaurant called for two distinct air patterns from each duct. From the front of each Fabric Duct the air exited large diameter laser cut perforations to jet into the seating area, whilst inducing large volumes of ambient air to mix and slow the velocity once in the occupied zone. From the back of the duct a similar approach would have been too draughty for serving staff. Here we used blocks of 0.4mm microperforations allowing large volumes of air to exit very small diameter laser cut perforations, the air focussed into a specified direction, providing a high air volume but at an incredibly low velocity - providing cool, fresh air right into the serving environment.



Flat Oval rigid duct converts to Fabric Half Round

High quality materials

Made from PMI Fabric, manufactured specifically for the purpose the systems benefitted from Anti-microbial and anti static Flame Retardant polyester material specifically designed to be non hygroscopic and also non shrink.

Cleanroom Quality

Of specific interest on the project was the Cleanroom nature of the materials supplied by Prihoda, designed to achieve ISO4 international standard, and specifically guaranteed not to shed any fibrous materials into the air stream.



Eden Project - Cornwall UK

Innovative Design

The Eden team had a specific request for the inclusion of a row of LED lighting as a feature to be mounted INSIDE the Fabric Ducting systems. After supplying several material test swatches Eden Engineers chose the Prihoda medium weight Light Grey material as the best performing material for lighting level and aesthetic finish. A special order for the factory is not a problem and it was agreed that a velcro strip would be sewn all along the length of the half round ducts, inside along the centre of the roof. The LED lighting strip was attached to this velcro strip.

The final system design also incorporated a fabric transition to convert from a rigid flat oval duct to the specified half round shape as this was much easier to manufacture and install in fabric.

Prihoda Specialities

The ability to use Prihoda Microperforations to create a diffuse air pattern into the kitchen area, the unique nature and quality of the material and the flexibility of being able to easily adapt manufacturing to incorporate the Eden Engineers requests for LED lights within the design won over the Eden Design team and the installation contractor.



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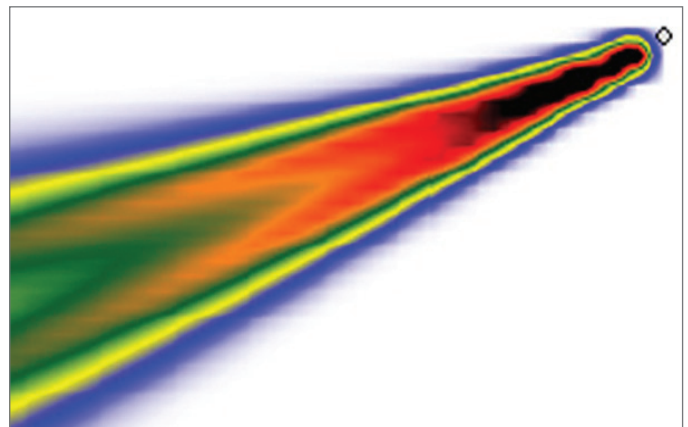
Eden Project



Kitchen Area with LED Lighting INSIDE the Fabric Duct



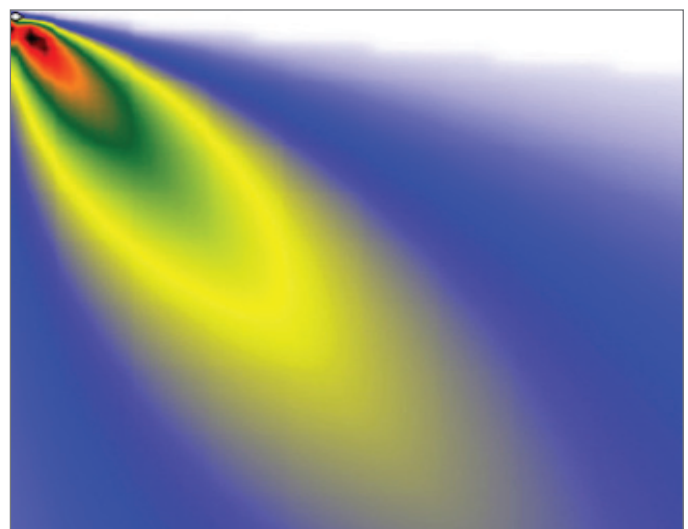
Laser cut Perforations directed towards seating areas



Laser perforation air pattern towards seating



The restaurant links two different BIO DOMES



Diffused low velocity air pattern behind kitchen counter

At PRIHODA we make everything to order and aim to ship within two to three weeks depending upon demand. Creating specialities as we did here with LED lighting on the Eden Project is always possible depending upon the detail - we have a team of dedicated and experienced engineers who can find solutions to most requests.

Please contact us with your ideas!