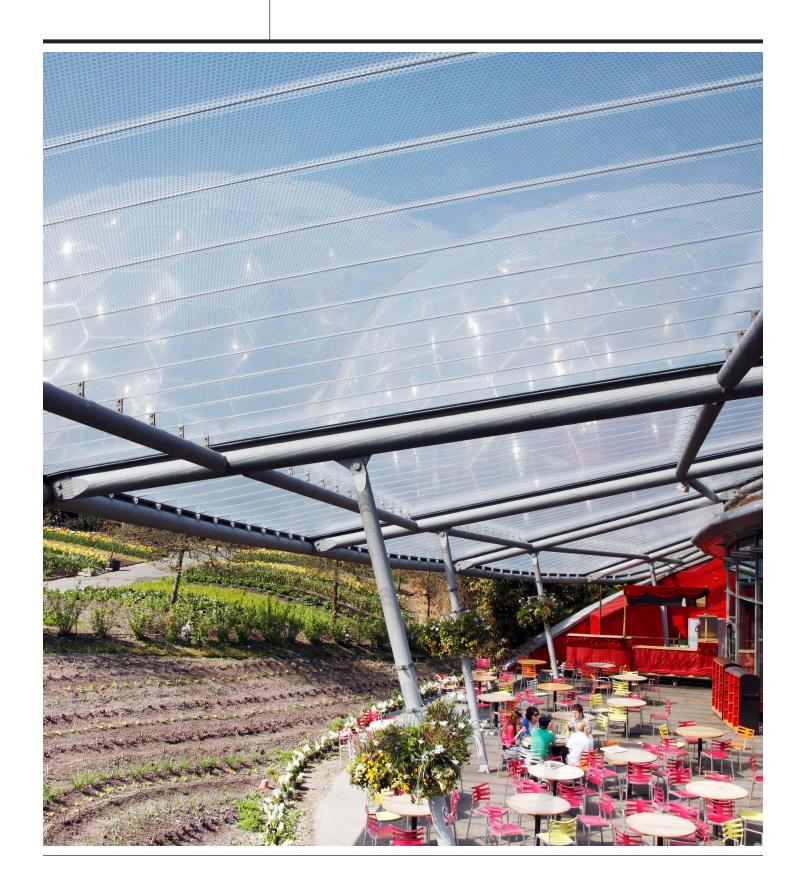
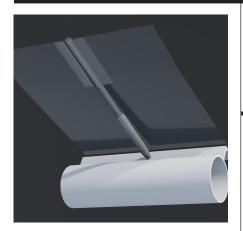
**Stressed Skin Membrane** 

# NOVUM











## **System Components**

- 01. Single skin ETFE (ethylene tetrafluoroethylene) welded membrane
- 02. Fully integrated anodized aluminum perimeter clamping system
- 03. Stainless steel or galvanized cables
- 04. Integrated support structure as required

### **Applications**

- 01. Ideal for rain shelters, canopies, ceilings, facades, stadium roofs, glass skylight replacements and areas requiring lightweight transparent covering, nominal thermal performance and minimal maintenance
- 02. Designs feature cable tensioning in one direction and require adequate pitch
- 03. Freeform surfaces and nonplanar trapezoidal panels
- 04. For designs requiring large lightweight panel areas
- 05. Small panels tensioned in individual frames without cables are possible
- 06. Explosion and bomb blast applications

#### **System Attributes**

- O1. The ETFE material provides many aesthetic and functional benefits
- 02. No mechanical elements or power requirements and low maintenance costs
- 03. Typical system self weight of under 0.4 psf (2 kg/m2)
- 04. ETFE material is resistant to UV, many chemicals and aggressive climates
- 05. The membrane thickness can be structurally optimized
- 06. Clear ETFE transmits over 90% of visible light and large portions of the UV range, making it ideal for growing plants and indoor sun tanning
- 07. Enhanced shading coefficients can be provided by screen printing
- 08. Special lighting effects can be achieved with screen print
- 09. Long life, low maintenance and very low surface dirt adhesion properties and readily cleanable with water
- 10. The ETFE and aluminum components are environmentally friendly, recyclable and easily dismountable
- 11. ETFE can cut or punctured, but does not tear. Discreet site patching is possible
- 12. In fires and bomb blasts, the material breaks without shattering and the panels open up without debris
- Fire rating BS476 6&7 class 0, UL 94 V-0 and EN13501 Bs1d0, EN 13 823, ASTM E84 Index 5, ASTM E662, NFPA 701 Test Method 1&2
- 14. Project specific calculations and form finding by Novum's in-house engineers according to structural and architectural requirements

#### Options/Materials/Finishes

- 01. PVC and PTFE options are available and combine with different Novum substructures and clamping systems
- 02. ETFE raw material can be pigmented before extruding in multiple colors and opacities
- 03. Clear anodized aluminum is standard or can be coated as required
- 04. Bird deterrent systems can be offered as required
- 05. Mid and long term Maintenance Agreements