

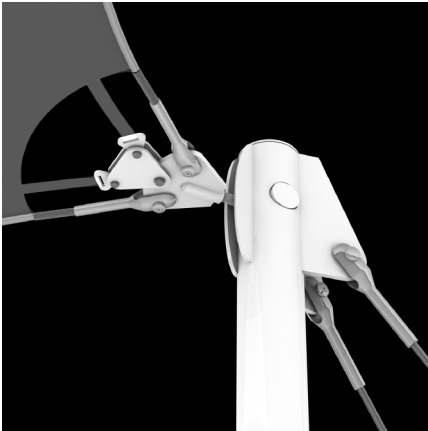
CTF-System

Cable Tensioned Fabric

Membrane System

NOVUM





### System Components

01. PVC-PES, PTFE-Glass, Silicone-Glass or Tenara welded fabric
02. High strength stainless or galvanized steel cables
03. Adjustable tensioning devices
04. Structural steel support
05. Rain water diverters
06. Integrated perimeter detailing

### Applications

01. Long span and cost effective overhead applications
02. For designs requiring large areas with adequate double curvature
03. Very lightweight primary structures with heavier foundations
04. Freeform surfaces
05. Ideal for smaller canopies, roofs, shade structures and areas requiring lightweight partially translucent or opaque covering with low maintenance

### System Attributes

01. Full single service responsibility for structure and membrane
02. Fabric materials provide varied aesthetic and functional benefits
03. Lightweight roofing elements demonstrate high strength to weight performance by utilization of biaxial tension
04. Fabric materials are resistant to many chemicals and perform well in diverse climates and environments
05. Fabric materials transmit an average of 10% to 15% of visible light
06. No requirement for power and associated operational costs once built
07. PTFE has longer life, lower maintenance and improved dirt adhesion surfaces when compared to PVC
08. PVC is an excellent low cost but high performance shade provider with a more limited life expectancy
09. Tenara has good longevity and more ability to be folded with good light transmission, making it useful for retractable and special lighting applications
10. Fabrics may sustain damage, but do not readily tear. Discreet patching and local repair is possible at site
11. Woven fabrics work in bi axial tension and are less prone to wrinkling, yet this is dependent also on excellent patterning and correct installation
12. Fire rating typically ASTM E 84, NFPA 701, EN 13501-1 B-S1,d0. Selected fabrics pass ASTM E 136, DIN 4102 A2, BS 476 class 0

### Options/Materials/Finishes

01. A variety of standard colors are available, especially in PVC
02. Membrane printing is available on PVC and can be customized for full screen or logo requirements using digital technology
03. Cables can be galvanized or stainless steel depending on forces
04. Mid and long term Maintenance Agreements