

FF-System (Patent Pending)

Free Form

Structural System

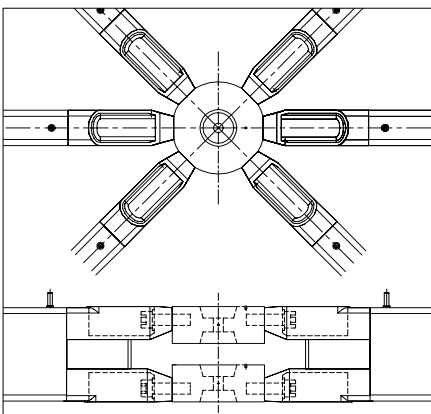
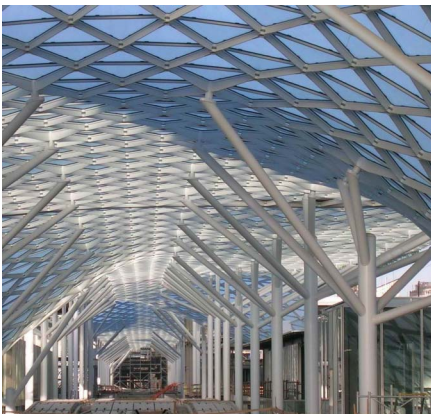
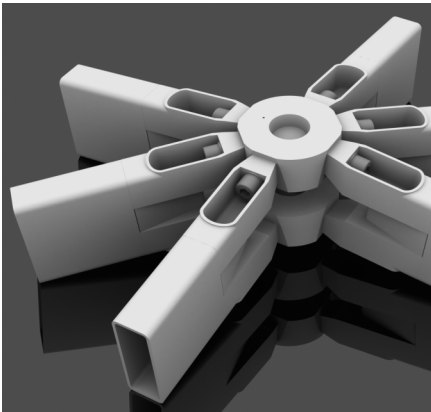
NOVUM



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System Components

01. Nodes are C45 forged steel plated and painted
02. Structural members are 3" (75mm) wide rectangular hollow sections A500 Gr B or equal
03. Proprietary beam to node connectors are cast steel
04. Concealed high strength steel fasteners DIN 912 Grade 10.9 with dacromet corrosion coating

Applications

01. Single layer grid structures
02. Incredible flexibility of the system design enables true free form geometry
03. Bending stiff connections also permit axial load transfer hence grid or shell action is easily accommodated

System Attributes

01. State of the art system approach from the market leader in three dimensional structural systems technology
02. First commercially available "standard" system for free form surface architecture
03. Double bolt moment connections are achieved with pre-stressed hidden fasteners
04. Industry leading bending stiff connections by the use of nodal connections
05. Double node technology solves free form geometric issues of beam twist
06. Exciting and creative for projects of any size
07. Advanced product system is matched with process design allowing virtually fully automated design, engineering, fabrication, drawing and production by the use of solid modeling
08. Complex forms are achieved from standard components
09. Nodes are custom machined for tight tolerance using CNC equipment
10. Lateral bending of members from cladding is easily accommodated
11. Grid sizes are determined by applied loading or cladding type or geometry
12. Requires no secondary steelwork as an interface between structure and cladding
13. Structures are designed by Novum's in-house engineers
14. Integrates with Novum Edge Clamped Glass or Point Supported Glass Systems

Options/Materials/Finishes

01. Tube depth sizes range from 6" to 12" (150mm to 300mm)
02. Nodes sizes are typically 8" diameter (200mm)
03. Standard member finish is high performance polyurethane over a corrosion resistant epoxy primer

Front: New Trade Fair, Milan Italy
Architect: Massimiliano Fuksas