REWRITING THE PLAYBOOK ON AFFORDABLE SPORTS FACILITIES

Presented By

Shannon HumbertLegacy Building Solutions





PRESENTER



SHANNON HUMBERTBuilding + Project Design Consultant

HIGHLIGHT REEL

- The materials used in tension fabric structures
- How each material contributes to the strength and longevity of the structure
- Benefits of the structure specific to sports venues
- Case studies

ABOUT LEGACY

100+

Years of combined leadership experience in the industry

MILLIONS

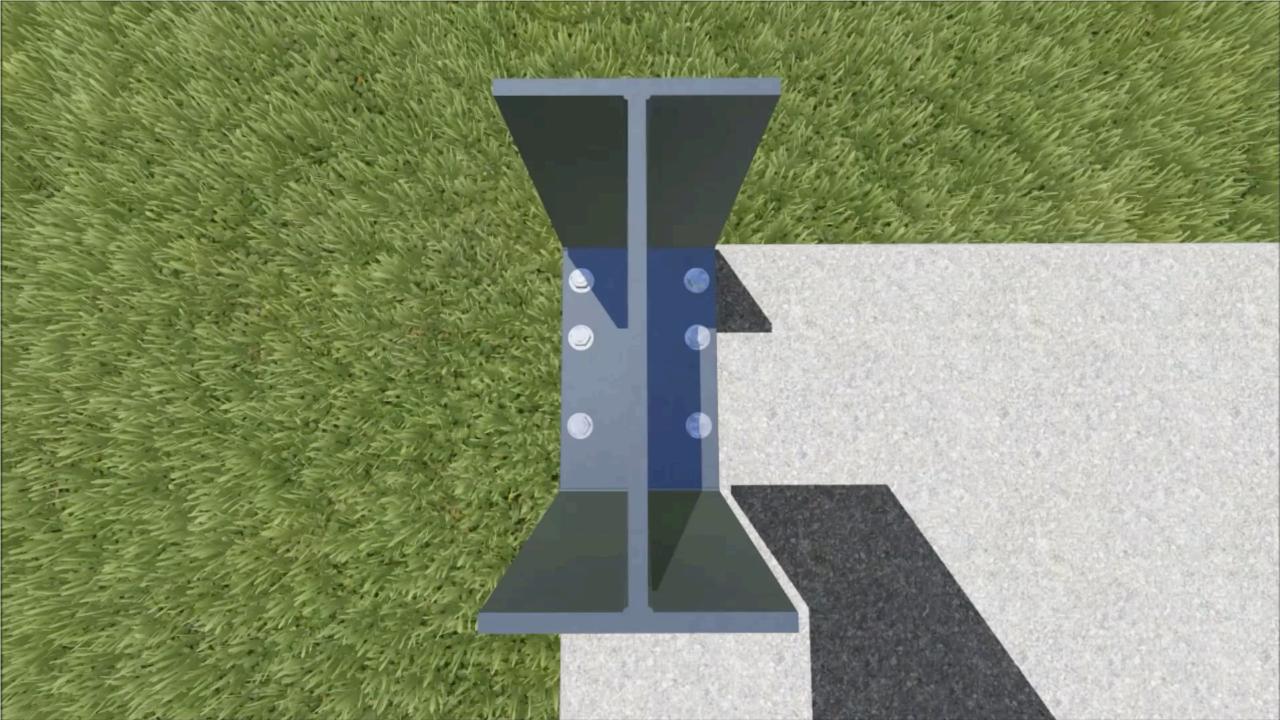
Of square feet sold and installed

2010

Founded in South Haven, MN







RIGID STEEL FRAME

- Design flexibility
- More usable space
- Confidence
- Universality
- Support for equipment





RIGID STEEL FRAME

- Customization options:
 - Balconies
 - Mezzanines
 - Overhangs
 - Soffits
 - Lean-tos







STEEL TREATMENT

- Hot dip galvanizing
- Epoxy paint







BENEFITS OF FABRIC



- Natural light equals fewer lights installed and powered, lower energy costs
- No reverberation for superior acoustics
- Our fabrics have a white underside providing superior light reflection for a better lit interior



- Stays cooler in summer and warmer in winter
- Wider and taller structures with freespan space
- Seamless roof construction with no penetrations, which eliminates leaks
- Relocatable



- Installed in 1/3 the time faster return on investment
- Minimal maintenance requirements
- 1/5 cost of roof replacement
- Single source engineering, manufacturing & installation

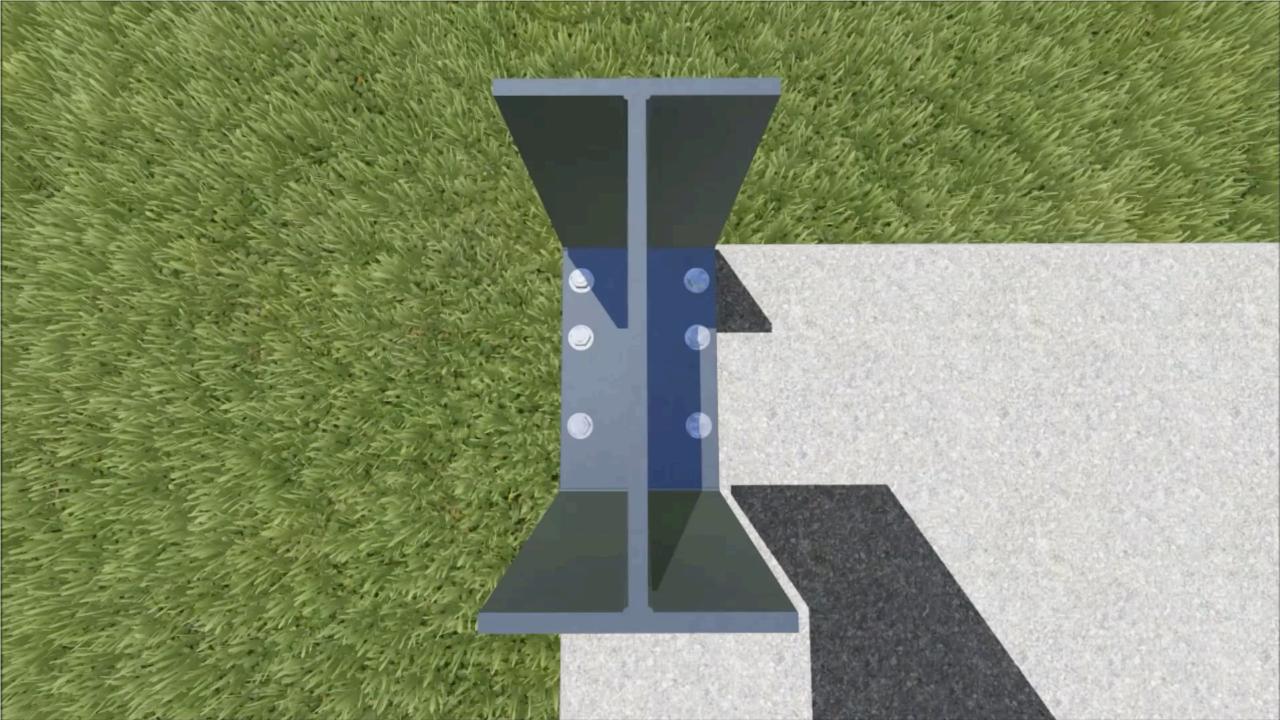


FABRIC STRENGTH TEST

- PVC fabric attached to steel frame for strength testing
- 10,100-lb skid loader placed, and then driven, on fabric
- Fabric supported the loader and returned to its original state in less than 24 hours without damage



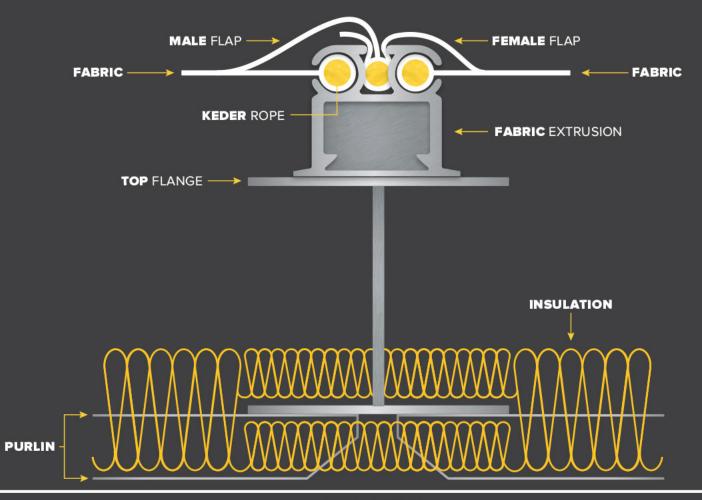




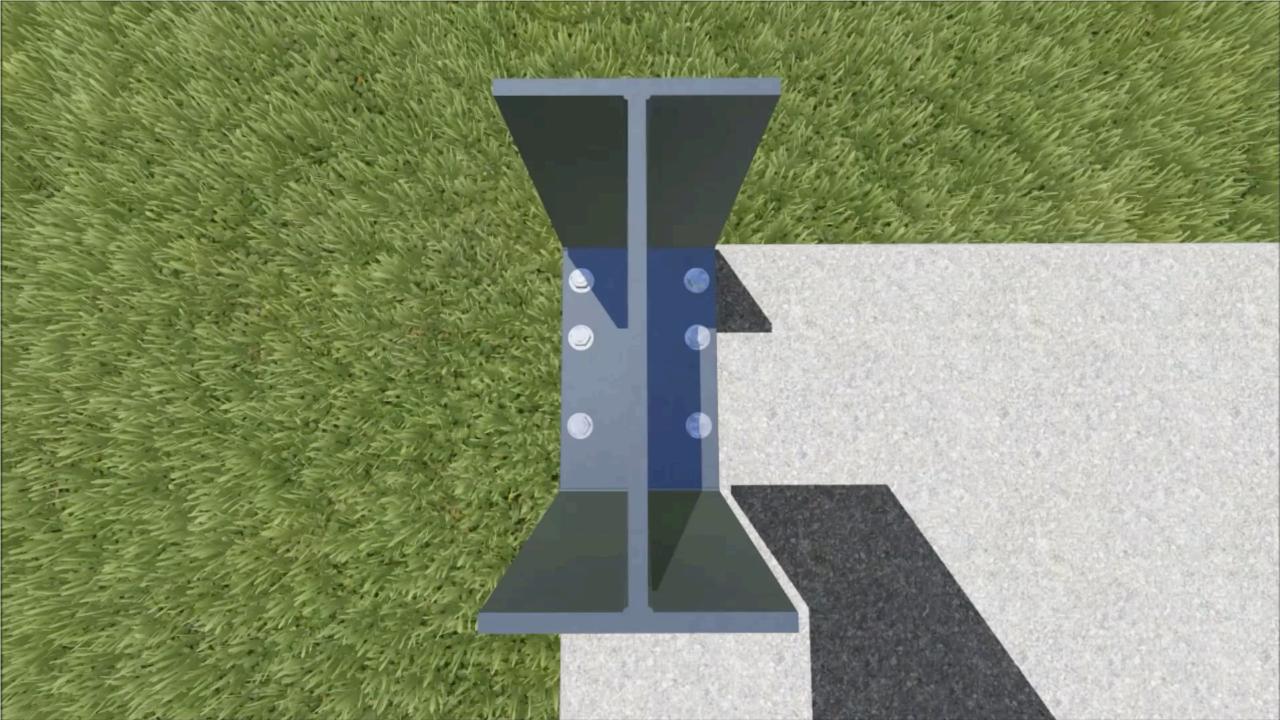


INSULATION AND LINERS

- Commercial fiberglass insulation system installed in rigid I-beam cavity, finished with premium liner
- True R-value achieved
- Comfortable and superior interior environment in any conditions



FABRIC LINER



ACTIVE OR PASSIVE VENTILATION

- Peak vents
- Eave intake
- Cavity ventilation in lined buildings
- Powered peak vents
- Aeration systems







OPTIONS TO CUSTOMIZE

- Color options for fabric exteriors
- Color options for exposed beams
- Logos
- Mascots



LIGHT AND ACOUSTICS

- White liner
- Improved lighting
- Quieter than steel buildings
- Coaches want to be heard



OVERHANGS

- Entrance protection
 - Awnings and Canopies
- Ventilation intake
- Water management
 - Icebreakers
 - Gutters & downspouts





CLADDING OPTIONS

- Fabric
- Glazing walls
- Steel
- Stone







HANGING LOADS

- Nets
- Goalposts
- Scoreboards
- Basketball hoops
- Mezzanines
- Fire suppression, lighting, HVAC





DOOR AND ENTRY OPTIONS

- Personnel doors
- Rubber doors
- Overhead doors



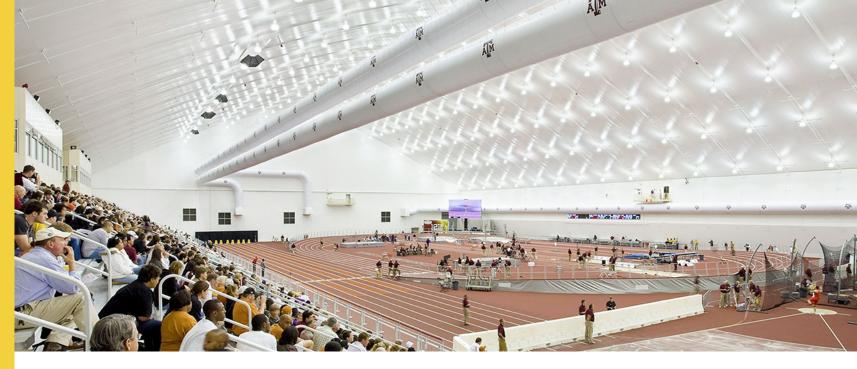






DESIGNED FOR SPECTATORS

- Standard to high occupancy
- Mezzanine deck
- Ground-level viewing options
- Venue-specific gable ends for indoor/outdoor viewing





INSTALLATION

- Professionally trained crews
- Fabric attachment system







FOX CREEK MULTIPLEX

Fox Creek, AB

- Four connected units:
 fieldhouse, aquatic center,
 full-scale hockey arena,
 community center (58,363.8
 total sq ft)
- Community sports and event center
- 46 psf ground snow load, 90 mph wind load, high occupancy rating
- Gray primed steel frame





FOX CREEK MULTIPLEX

Fox Creek, AB

- PVC fabric cladding with a custom silhouette design on exterior
- Fully insulated and lined with climate control system for year-round use
- Interior build-outs for changing rooms, concessions, weight room, offices and more
- Second-floor walking track in hockey arena





OKLAHOMA CITY TENNIS CENTER

Oklahoma City, OK

- 125 ft x 300 ft building with six regulation tennis courts
- Primed rigid steel frame
- Tan and green fabric cladding
- Fully lined and insulated for year-round use
- Interior profile complies with USTA standards





OKLAHOMA CITY TENNIS CENTER

Oklahoma City, OK

- Frame engineered to support HVAC system, large fans, divider curtains and lighting
- Active and passive ventilation systems installed
- 36 in overhangs with gutters and downspouts
- LBS crews installed the structure in under 30 days



KIMBALL HS MULTISPORT

Kimball, MN

- 45 ft x 100.5 ft structure with 20 ft x 15 ft vestibule (4,822.5 sq ft)
- Gray primed rigid steel frame
- White, blue and tan ExxoTecElite PVC fabric cladding
- Lined and insulated for year-round use



KIMBALL HS MULTISPORT

Kimball, MN

- Vestibule connected directly to existing brick structure
- School mascot decal on exterior wall
- Building fully covered with fire suppression system
- Legacy completed all construction and interior finishing in two months



PACIFIC FOOTBALL CLUB

Langford, BC

- ➤ 164 ft x 310 ft indoor soccer facility (50,840 sq ft)
- Gray primed rigid steel frames
- ExxoTec Elite white fabric cladding







GAME DAY RECAP

- The materials used in tension fabric structures
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Thank You!

SHANNON HUMBERT

Building + Project Design Consultant 320.250.6335 | shumbert@legacybuildingsolutions.com