**Structural Elements - Load Bearing with LVL Kerto-Q/-S**

**Load transfer** for 1st-Span Walkway to Hanger into Roof of folded Plate Construction

**Walkway Deck** Structural Behavior: Kerto-Q Boards + Kerto-S Beams

- Kerto-Q 5,1cm Boards + pavement
- Kerto-S 24,6/26cm Beams transverse
- Kerto-S 16,6/20cm Beams lengthwise

**Walkway Deck Construction:**

- Offset of Overlapping Butt Joints
- Single Board width=1,80/1,40m
- Low Pressure glued in plastic bag

**Structural-Behavior / Load Transfer:**
- T-Beam Plate with „Traffic load qk = 4,5kN/m²"
- Hanger Rod „Tension“
- Roof Kerto-Q“ Plate Tension
- Steel Frame + Bearing

**Roof Construction** with bonded Kerto-Q boards: th = 3*3,75=11,25cm
Truss underneath: Steel/Kerto-S beams

**Bonding Scheme of Roof Elements**
3 Kerto-Q Plates of Length = 23,0m:

- 1,80m width = Board Single Joints
- Butt Overlapping of Offset
  - Lengthwise Beams 16,6/20cm Kerto-S
  - Transverse Beams 24,6/26cm Kerto-S

**Steel Connection Detail from below**

**Metsä Wood** - OPEN SOURCE IN WOOD ELEMENTS