**Building Construction: Rooftop + Tall Building with Kerto-Q/S + CLT**

**Overview Building Construction Details**

**3D-Design of a Rooftop at BERLIN**
Structural Bracing Elements and TCC-Slab:
- Hybrid-Boards as (TCC-Slab) with self-tapping screws, open/closed Concrete Joints.
Slab Construction: Concrete + Kerto-Q

**Pre-fabricated Wall + Roof Structural Elements**
- Bracing Element with Kerto-Q
- Shell Roof of Bezier Shape with Kerto-Q
- Curved Kerto-Q Elements with Radius >250t e.g. single plate thickness=27mm

**Preliminary Design** of a Tall Building Structural Elements + Layout of a Floor:
- Structural Optimization against Wind- / Vibration Action!
- Kerto-Q/S stringer stiffend Shell Type Façade

**Summary:**
1. **Overview:** B + P Bridge Graphic_1a to _3a - **Unique Timber Engineering**
2. **Trends:** Building Timber Engineering - Preliminary Design Graphic_4a
3. **Challenges:** Effective use of “Solid Wood + Composite LVL Kerto-S/Q”
4. **Advantage:** High Strength Material LVL with transverse strength Property
5. **Research:** Effective Construction with different Materials, e.g.
   - Steel Elements, hybrid Timber-Concrete Element,
   - Building physics with insulation/diffusion air-tight creation etc.

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**Garden-Pavilion: Kerto-Q Roof Bracing**

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