European HW Technology-Installation Cost Analysis from Real Projects in North America

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Cost data was collected from 12 European thin-wall HW projects, regional trends appear.

Historical Cost [$/LF] by Region

- **California**: $923
- **NE-US**: $747
- **Tot AVG**: $544
- **CAN**: $342
- **DK**: $164

**Historical Data**
- **Total Cost $/LF**
- Project Analysis - Comparison
Why are Danish and Canadian prices lower?

Danish Projects
- 79%

- 30 yrs Experience (Designer, Suppliers and Contractors)
- Procurement Method
  - Unit Pricing (Reduces Cost/ Transfers Risk to Owner)
  - EN 13941 – Well defined design, construction, rigorous QA/QC process

Canadian Projects
- 56%

- Adopted Danish Engineer Active Management Practices
  - Procurement Method
  - QA/QC Process
  - Favorable Site Conditions
In NE a budget of $800/LF is reasonable (no soft costs)

Costs can be lowered further via Danish Experience
- Unit Pricing/ Active Management of Project Cost by Engineer
- Transfer of Risk to Owner
- Experienced Contractors

$/LF
Questions?