

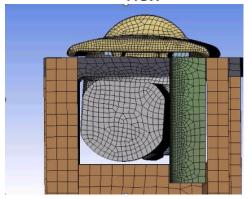
## Structural analysis of hardware on frames for fenestration industry

## Structural Analysis and effect of hardware on frames Hardware Analysis:

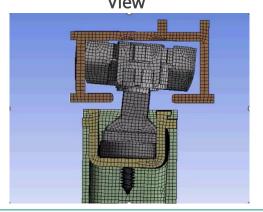
- In doors and windows hardware components that comes in contact with the frame are prone to failure.
- Localized areas were studied in detail to capture stresses and material behavior.

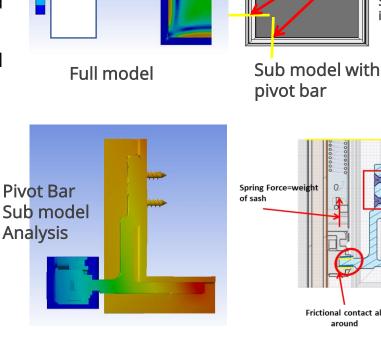
Benefits: Contact stresses can be determined, and remedial actions can be simulated before building a prototype.

Tilt latch Sub model Analysis side View



Pivot Bar Sub model Analysis Top View





: Static Structural

Displacement extracted from full model analysis applied to the faces for the sub model analysis.

Sub model location in full model

