



SBM's three-dimensional modeling software to assist in the structural analysis, design and optimization of lateral force resisting systems for six storey wood framed buildings.

SX·N·WD

ver 1.3

Design Features and Benefits

Meets OBC 2012 + Jan 1-2015 amendments, CSA O86-14 Wood Manual, APEGBC Technical and Practice Bulletin, Technical Papers

Calculates all earthquake and wind loads

Accounts for flexible and rigid diaphragms

Provides consideration for non-combustible stair exits (i.e masonry/concrete/steel frame)

Takes into account stiffness of wood shear walls and other materials such as masonry, concrete, steel frame or steel stud

Calculates inter-storey building deflection and overall building drift at all floor levels

Internal database of over 250 shear wall panels ranked based on material and labor costs (panelized walls systems)

Considers cumulative effect of hold-down anchor slippage when determining building deflection

Internal database of over 25 steel hold-down anchors ranked based on material costs

Optimizes the selection of shear walls based on loads, deflection and material/labor costs

Benefits to Architect and Owners

Reliable design calculations

Provides detailed output to City officials for easy permit review

Much more accurate than 'hand' calculations

Optimizes the cost of construction while maintaining structural integrity of building

Adapts well to architect/owner changes during design