Atlantic Wood WORKS! December 2 & 3, 2014 Wood Design in Mid-rise Buildings - Why we use wood Syd Dumaresq SP Dumaresq Architect Ltd Halifax, NS

Why I love wood







TERMENTY ME OHE MINAT

SHOPH ELEWATION

HARAM SHILLEN











Market Square and South Market Slip in Flames













Kings Broad Arrow



















Notched posts





Interior finish





Chester United Baptist Church







































Balloon framing 1830-1930



4

EC

Platform Framing 1900 on





Platform Framing 1900 on



TJI's, LVL's, CLT's etc.







High Rise



Why do I love wood?








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Living well in a place you can call home























Villa St Joseph du Lac











Villa St Joseph du Lac















Fast and economical



Renewable





Local

- Locally grown & harvested
- Locally milled
- Locally retailed
- Constructed by locally trained & located carpenters
- Supports local economy & rural sustainability
- Local = reduced transportation costs





Standard floor joists attach directly to the ICF wall system providing superior strength.

ICFs use below grade dimple or adhesive membranes for waterproofing keeping your

basement warm and dry.

BuildDeck ICF flooring integrates into BuildBlock walls providing structural support, insulation, sound proofing, and protection from disaster.

ICFs tie into the footings and create the monolithic structural concrete outside walls that extend to the roof for the highest energy-efficiency, sound proofing, and disaster resistance available today. BuildBlock form for lintels above

Little waste on site

• Cut ends can be used in blocking, etc.



Longevity





Suitability for re-use, salvaged or adapted









Flexible











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Can be pre-fabricated off site
















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Easy to adapt to local context















Flexible –easy to achieve design objectives









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Local context





Local context









Scissors trusses to achieve higher ceilings in corridors



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Drywall u/s of trusses





In floor heat









Fill TJI's with noncombustible insulation



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Alternate compliance – RJ Bartlett





Kings Broad Arrow







Toilet paper





Burning forests to generate electricity





Economy & Environment are one oWe need a healthy, diversified, local forestry industry



Rural sustainability


Trees consume CO2





A healthy forest filters our drinking water.





More than just a forest –It's habitat





More life in a dead tree than a live one





Being in a forest just feels great





What can I do ???



Understand & specify local wood species

- Spruce, pine, fir structural and fin. carpentry
- Eastern white cedar rot resistant
- Hemlock rot resistant
- Tamarack rot resistant
- Poplar plywood & finish material
- Yellow & white birch, red oak, red sugar maple —finish carpentry, flooring
- Locust strength



Investigate Third Party Certifications





Understand local harvesting practices









Modest clear cut



Campaign for better forestry practices

- Larger riparian setbacks (from watercourses)
- No whole tree harvesting
- No power generation from wood
- Leave more standing forest areas for wildlife and clean water
- More community forests



Medway Community Forest – Mersey Tobiatic Research Institute



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Thanks for listening!!



