

MagWall™ Building Systems

Manufacturer of Magnesium Fiber Cement Board SIPS
Edmonton, Alberta, Canada

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Background

- Involved in first MGO SIP tested in North America - 2006
- Panels used in most types of construction
- Utilized 5 different MGO Boards throughout our history – handle and inspect every board
- All boards – except for the board we are currently using had inconsistent quality and significant problems
- Key to consistent quality – North American or European personnel in the board factory supervising manufacturing (over and above third party monitoring)

Strategies

- Invested in process as much as the product
- Panelize home or building in Autodesk Revit (using library)
- Pre-fabricate and label panels
- Use wholesale siding and finishing products to lower finished wall costs
- Invest in and perfect direct application of stucco and direct interior wall finishing

Chloride vs Sulfate Board

- Used Chloride boards for 8+ years
- No problems directly related to the chloride (other quality issues)
- Traditionally – sulfate boards have been less structural – but we now have a sulfate board with very similar performance characteristics to the chloride boards we have used
- The sulfate boards and the chloride boards deliver comparable results to osb sips
- Our panels are strong enough to be used below grade

Advantages/Disadvantages

- Mold Resistance
- Fire Resistance
- Finishing – can be finished with fewer layers (no building wrap required)
- Natural mineral – hypo allergenic
- Testing shows little or no loss of strength while wet – breathes water. Magnesium cements are many times stronger than conventional concrete

Disadvantage

- no jumbo panels – only 4 x 8, 4 x 9, 4 x 10, 4 x 12

Questions?

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Thank-You