Your Presenters

ES Green & Company, LLC
“A Common Sense Approach”

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Water Star™ Certifier
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Remodeling Considerations

Learning objectives

1. Identify code requirements for existing home renovation

2. Identify applicable “green “ choices
Remodeling Considerations
Remodeling Considerations

- Increased energy efficiency
- Increased water efficiency
- Increased durability
- Better indoor air quality
- More sustainable
Remodeling Considerations

YES

FLORIDA GREEN BUILDING COALITION

A GREEN FLORIDA FOR A BLUE PLANET
Remodeling Considerations
Remodeling Considerations

- Energy: 30/75
- Water: 15/40
- Lot Choice: 0/15
- Site: 5/30
- Health: 15/35
- Materials: 10/35
- Disaster mitigation: 5/30
- General: 0/40

A GREEN FLORIDA FOR A BLUE PLANET
Remodeling Considerations

100
Remodeling Considerations
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Remodeling Considerations

The FGBC General category, credits 4.1-4.5 allows a maximum of 19 points. The other 81 come from the same options new construction has.
Remodeling Considerations

- moisture managed
- improved insulation
- sealed ducts
- tight construction
- fresh air ventilation
- efficient windows
- pressure balanced for improved air circulation
- properly sized and installed heating andcooling equipment
Remodeling Considerations

1. Sealing to improve air infiltration and lessen general heat waste
   - Tighten building envelope—caulk, weather strip, door & windows. replace broken panes.

2. Attic and floor insulation
   - Upgrade attic insulation to R-38
   - Configure around units in attic and other venting problems.
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3. Dense-pack sidewall insulation

4. Solar window screens and film

5. Smart Thermostat
   - Waive for elderly tenants (Ease of use)
Remodeling Considerations

6. Compact fluorescent light bulbs
   - In all units and fixtures

7. Seal and insulate duct systems
   - Improves air loss and indoor air quality

8. Refrigerator replacement
   - Test for inefficiency
Remodeling Considerations

9. Have a professional evaluate your HVAC system. What is more cost-effective? repair or replacement
Remodeling Considerations

10. Water heater repair or replacement

- Replace depending on age and remaining budget funds
- Use pipe wrap and blanket insulation
- Install water heater timer
Remodeling Considerations
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- Florida Water
  Stewardship starts at home.

- WaterSense
  Meets EPA Criteria

- Florida-Friendly Landscaping Program
Remodeling Considerations
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RB & B Land Development  
P.O. Box 177  
Crawfordville, FL 32326  
(850)519-0977  

April 18, 2012  

Re: Green Qualification for Ellicot Project  

All pine logs were donated to Casey Miller Tree Service for the Aucilla River Bridge Project. Tops, stumps and all other land clearing debris were disposed of at Barber’s Pit off Tram Road to be ground into biofuel for Telogia Power.  

If any additional information is needed, please contact me.  

Sincerely,  

Brad Savary  
RB&B Land Development
Remodeling Considerations
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Remodeling Considerations
## Remodeling Considerations

<table>
<thead>
<tr>
<th>Item</th>
<th>VOC Content</th>
<th>Reference</th>
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<tbody>
<tr>
<td>Paints applied to</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flats</td>
<td>50 g/l</td>
<td>Green Seal Standard GS-11, Paints &amp;</td>
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<tr>
<td>interior walls</td>
<td>Nonflats: 150 g/l</td>
<td>Coatings, 3rd Edition, August 17, 2011</td>
</tr>
<tr>
<td>Clear Wood Finishes</td>
<td>Varnish: 350 g/l</td>
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<tr>
<td></td>
<td>Lacquer: 550 g/l</td>
<td></td>
</tr>
<tr>
<td>Floor Coatings</td>
<td>100 g/l</td>
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<tr>
<td></td>
<td>Waterproofing: 250 g/l</td>
<td>South Coast Air Quality Management</td>
</tr>
<tr>
<td>Sealers</td>
<td>Sanding 275 g/l</td>
<td>District Rule 1113, Architectural</td>
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<tr>
<td></td>
<td>All others: 200 g/l</td>
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<tr>
<td>Shellacs</td>
<td>Clear: 730 g/l Pigmented: 550 g/l</td>
<td></td>
</tr>
<tr>
<td>Stains</td>
<td>250 g/l</td>
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</table>
Remodeling Considerations

1635 sq. ft. total
908 sq. ft. hard surface
Remodeling Considerations
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Range hood vented to exterior
Remodeling Considerations
Remodeling Considerations
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## Remodeling Considerations

### Materials Group Inc.

10900 Brickyard Rd, East Midway, FL 32543  
850-579-5819

**MIX NUMBER:** JUF2091  
**MIX DESCRIPTION:** 2005 PS BLEND  
**PROJECT:**  
**CONTRACTOR:**  
**DATE:**

### MATERIALS

| CEMENT     | TYPE/VI | ASTM C 150 COMMERICAL ADHESION  
| FLY ASH    | CLASS/F | ASTM C 150 DM  
| COARSE AGGREGATE | Limestone | #100 LIMESTONE | ASTM C 330 MMT  
| FINE AGGREGATE | Limestone | #120 LIMESTONE | ASTM C 330 MMT  
| AIR ENTRAINING AGENT | SILICA SAND | SILICA SAND | ASTM C 324 A MINING GROUP  
| WATER/REDUCER | EUCON AEA | EUCON AEA | ASTM C 324 A MINING GROUP  
|            | EUCON MMT | EUCON MMT | ASTM C 324 A MINING GROUP  

<table>
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<tr>
<th>MATERIAL</th>
<th>DRY WEIGHT</th>
<th>VOLUME QTY</th>
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<tr>
<td>Cement</td>
<td>989 lbs</td>
<td>1.92</td>
</tr>
<tr>
<td>Fly Ash</td>
<td>1,440 lbs</td>
<td>0.52</td>
</tr>
<tr>
<td>Stone #100</td>
<td>1,300 lbs</td>
<td>0.40</td>
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<tr>
<td>Stone #120</td>
<td>600 lbs</td>
<td>0.26</td>
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<tr>
<td>Sand</td>
<td>1,270 lbs</td>
<td>0.74</td>
</tr>
<tr>
<td>Water psi</td>
<td>30 psi</td>
<td>30 psi</td>
</tr>
<tr>
<td>Water %</td>
<td>3.5%</td>
<td>3.5%</td>
</tr>
<tr>
<td>Air %</td>
<td>3.5%</td>
<td>3.5%</td>
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<tr>
<td>Slump</td>
<td>4.0 in.</td>
<td>4.0 in.</td>
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<tr>
<td>Air Content</td>
<td>3.5 in.</td>
<td>3.5 in.</td>
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<td>Cement Factor</td>
<td>0.398</td>
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<tr>
<td>W/C Ratio</td>
<td>0.52</td>
<td>0.52</td>
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<tr>
<td>Unit Weight (dry)</td>
<td>1,100 lb</td>
<td>1,100 lb</td>
</tr>
</tbody>
</table>
Remodeling Considerations
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Hardening

- Heavy-duty aluminum frame
- Clear polyvinylbutyral interlayer
- Extra-wide glass bed and special wet glazing

Label
Remodeling Considerations
Category 7: Disaster Mitigation

Chemical Soil Treatment?

Do this one right or you miss out on

10 Points!
Category 7: Disaster Mitigation

Pre-requisites for Chemical Soil Treatment
You MUST capture these three points:

1. Seal slab penetrations (H2.4)
2. Vegetation > 2’ from foundation (M3.6)
3. Sprinklers/emitters ≥ 2’ from foundation (M3.7)
Remodeling Considerations

Chemical soil treatment—After the prerequisites

1. Properly installed exterior cladding
2. Gutters OR overhangs ≥ 2’
3. Condensate line discharge ≥ 2’ from house
4. And ≥ 5’ from dryer
5. Irrigation/sprinkler water does not hit house
6. Renewable damage replacement warranty issued
Remodeling Considerations

<table>
<thead>
<tr>
<th>Conditioned House Size (square feet)</th>
<th>Points</th>
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<tbody>
<tr>
<td>&lt; 1000</td>
<td>40</td>
</tr>
<tr>
<td>1000 - 1099</td>
<td>36</td>
</tr>
<tr>
<td>1100 - 1199</td>
<td>32</td>
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<tr>
<td>1200 - 1299</td>
<td>28</td>
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<td>1300 - 1399</td>
<td>24</td>
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<td>1500 - 1599</td>
<td>16</td>
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<tr>
<td>1600 - 1699</td>
<td>12</td>
</tr>
<tr>
<td>1700 - 1799</td>
<td>8</td>
</tr>
<tr>
<td>1800 - 1899</td>
<td>4</td>
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</table>
Remodeling Considerations

Homeowner’s training

Homeowner’s manual
Remodeling Considerations
Remodeling Considerations
Remodeling Considerations

• Review—Remodeling Considerations
• Identify code requirements for existing home renovation
• Identify applicable “green “ choices
• Can a remodeled home be certified?
• What is the first step in a green remodel?
You can download the FGBC Standards and search the Database at:

www.FloridaGreenBuilding.org

Thank You!