

**GREEN HOUSE
REHAB**

CODE REHAB = STANDARD BUILDING PRACTICES

GREEN REHAB = ENERGY EFFICIENT AND RECYCLED MATERIALS

GREENER REHAB = ENERGY EFFICIENT, RECYCLED AND SUSTAINABLE MATERIALS

GREENEST = ENERGY EFFICIENT, RECYCLED, SUSTAINABLE AND STATE OF THE ART
MECHANICALS

| ITEM | CODE REHAB COST ESTIMATE | GREEN REHABILITATION | GREENER REHABILITATION | GREENEST REHABILITATION | PRICING COMMENTS | RETURN ON INVESTMENT COMMENTS |
|------|--------------------------|----------------------|------------------------|-------------------------|------------------|-------------------------------|
|------|--------------------------|----------------------|------------------------|-------------------------|------------------|-------------------------------|

EXTERIOR ITEMS

| SIDING | | | | | | |
|------------------|-------------------|-------------------|--------------------|--------------------|--------------|---------------------------------|
| vinyl | \$8,000.00 | | | | | |
| steel | | \$8,400.00 | | | 600/sqx14 sq | both steel and cement board are |
| cement board | | | \$11,200.00 | \$11,200.00 | 800/sqx14sq | green. No Payback |
| | | | | | | |
| SUB TOTAL | \$8,000.00 | \$8,400.00 | \$11,200.00 | \$11,200.00 | | |

| DRIVEWAY | | | | | | |
|------------------|-------------------|--------------------|--------------------|--------------------|----------|-----------------|
| asphalt | \$3,500.00 | | | | | |
| concrete | | | | | | |
| concrete pavers | | | \$30,000.00 | | \$20SF | reduces run off |
| recycled pavers | | | | \$24,000.00 | \$16SF | green product |
| porous asphalt | | \$20,000.00 | | | \$13.3SF | green product |
| | | | | | | |
| SUB TOTAL | \$3,500.00 | \$20,000.00 | \$30,000.00 | \$24,000.00 | | |

| SIDEWALKS | | | | | | |
|------------------|------------|------------|------------|------------|-------|---------------|
| concrete | \$1,600.00 | | | | | |
| concrete pavers | | \$2,000.00 | | | 20/sf | green product |
| recycled pavers | | | \$1,600.00 | \$1,600.00 | 16/sf | green product |

| | | | | | | |
|------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | | | | | |
| SUB TOTAL | \$1,600.00 | \$2,000.00 | \$1,600.00 | \$1,600.00 | | |

| | | | | | | |
|---------------------------|-------------------|--------------------|--------------------|--------------------|--|-----------------------------------|
| LANDSCAPING | | | | | | |
| common | \$8,200.00 | | | | | |
| common + proper soil prep | | \$10,000.00 | | | | better root sys. Less watering |
| native vegetation | | | \$8,200.00 | \$8,200.00 | | deeper roots less water |
| rain garden | | | \$4,000.00 | \$4,000.00 | | green, reduces run off less water |
| french drains | | | | \$1,500.00 | | collects and redistributes water |
| | | | | | | |
| SUB TOTAL | \$8,200.00 | \$10,000.00 | \$12,200.00 | \$13,700.00 | | |

| | | | | | | |
|-----------------------|-------------------|--------------------|--------------------|--------------------|-------------------------|--------------------------------|
| WINDOWS | | | | | average cost per window | |
| code | \$5,500.00 | | | | code= \$500 | |
| wood high performance | | \$9,900.00 | \$9,900.00 | \$13,200.00 | green(er)=\$900 | 11 year payback @20% fuel svgs |
| | | | | | greenest+\$ 1200.00 | 9.4 yr payback @ 40% fuel svgs |
| SUB TOTAL | \$5,500.00 | \$13,200.00 | \$13,200.00 | \$13,200.00 | | |

INTERIOR ITEMS

| | | | | | | |
|-----------------------|------------|------------|------------|------------|-----------------------------|---|
| INSULATION | | | | | | |
| foundation | \$2,200.00 | \$2,200.00 | \$2,200.00 | \$2,200.00 | \$2sf | N/A |
| rim joist | \$150.00 | \$150.00 | \$150.00 | \$150.00 | \$2sf | N/A |
| wall | \$800.00 | | \$2,200.00 | \$2,200.00 | \$2sf | Greenest has a 6.2 year payback using monthly heating and cooling cost of \$120/m with a 30% savings (product to sv 30-50% est. no payback recycled cotton is a |
| attic | \$1,250.00 | | \$2,800.00 | \$2,800.00 | \$2.2sf | |
| bypasses | \$250.00 | \$250.00 | \$0.00 | \$0.00 | | |
| ventilation | \$400.00 | \$400.00 | \$400.00 | \$400.00 | | |
| Walls recycled cotton | | \$1,001.00 | | | \$77/bundle need 13 bundles | |

| | | | | | | |
|-------------------------|-------------------|-------------------|-------------------|-------------------|-----------------------------|---|
| Attic recycled cotton | | \$2,200.00 | | | \$77/bundle need 28 bundles | green product which performs as fibre glass |
| SUB TOTAL | \$5,050.00 | \$7,750.00 | \$6,201.00 | \$7,750.00 | | |
| LIGHTING | | | | | | |
| code | \$1,200.00 | | | | | |
| led lighting | | | | | | |
| florescent fixtures | | \$1,400.00 | \$1,400.00 | \$1,400.00 | 75% less energy/10xlonger | 1-2 yr payback |
| solar tubes (bath/hall) | | | \$1,170.00 | \$1,170.00 | | N/A |
| SUB TOTAL | \$1,200.00 | \$1,400.00 | \$2,470.00 | \$2,470.00 | | |

| | | | | | | |
|---------------------|-----------------|-------------------|-------------------|-------------------|----------|------------------------|
| COUNTER TOPS | | | | | | |
| laminare | \$700.00 | | | | | |
| paperstone | | | | \$1,700.00 | | green product |
| granite | | \$1,700.00 | | | | green product if local |
| recycled glass | | | \$2,000.00 | | 2,000.00 | green product |
| concrete | | | | | 1,700.00 | |
| SUB TOTAL | \$700.00 | \$1,700.00 | \$2,000.00 | \$1,700.00 | | |

| | | | | | | |
|----------------------|-------------------|-------------------|-------------------|-------------------|-------------|-----------------------------------|
| WALL FINISHES | | | | | | |
| drywall | \$4,200.00 | \$4,200.00 | | | 5.56/sheet | |
| paperless drywall | | | \$5,000.00 | \$5,000.00 | 10.98/sheet | green product/health home product |
| SUB TOTAL | \$4,200.00 | \$4,200.00 | \$5,000.00 | \$5,000.00 | | |

| | | | | | | |
|------------------------|------------|------------|------------|------------|--------------|---------------|
| FLOOR FINISHES | | | | | | |
| typical | \$5,700.00 | | | | | |
| linoleum | | | \$1,340.00 | | \$10/sfx134 | green product |
| sustainable wood | | \$7,700.00 | | \$6,384.00 | \$7/sfx912sf | green product |
| greenguard carpet wool | | | \$6,129.00 | | \$60/syx102 | green product |
| cork | | | | \$1,206.00 | \$9/sfx134 | green product |

| | | | | | | |
|------------------|-------------------|-------------------|-------------------|-------------------|--|--|
| | | | | | | |
| SUB TOTAL | \$5,700.00 | \$7,700.00 | \$7,469.00 | \$7,590.00 | | |

| | | | | | | |
|-------------------------|-----------------|-----------------|-----------------|-----------------|--|-----|
| PLUMBING FAUCETS | | | | | | |
| standard | \$450.00 | \$450.00 | | | | N/A |
| reduced flow | | | \$450.00 | \$450.00 | | N/A |
| SUB TOTAL | \$450.00 | \$450.00 | \$450.00 | \$450.00 | | |

SYSTEMS AND APPLIANCES

| | | | | | | |
|-----------------------|-------------------|-------------------|--------------------|--------------------|--------------|---------------------------------|
| ELECTRICAL SYS | | | | | | |
| typical | \$6,500.00 | \$6,500.00 | \$6,500.00 | \$6,500.00 | | |
| photovoltaic | | | | \$30,000.00 | 15-60,000.00 | 33yr payback @ \$75/m elec svgs |
| solar panels | | | \$10,000.00 | | | 6 yr payback @ 50.00/m savings |
| SUB TOTAL | \$6,500.00 | \$6,500.00 | \$16,500.00 | \$36,500.00 | | |

| | | | | | | |
|---|-------------------|-------------------|-------------------|-------------------|--|--------------------------|
| PLUMBING SYSTEM | | | | | | |
| code | \$8,500.00 | | | | | |
| pex supply lines | | \$8,500.00 | \$8,500.00 | \$8,500.00 | | |
| dual flush toilets | | | \$350.00 | \$350.00 | | ROI 5YRS SAVE 95k gallon |
| gray water recovery drain/waste/vents (non pcv) | | | | | | |
| SUB TOTAL | \$8,500.00 | \$8,500.00 | \$8,850.00 | \$8,850.00 | | |

| | | | | | | |
|---------------------|-------------------|-------------------|-------------------|-------------------|--|-----------------------------------|
| WATER HEATER | | | | | | |
| typical gas | \$1,500.00 | | | | | |
| point of use gas | \$0.00 | \$2,700.00 | \$2,700.00 | \$2,700.00 | | 2.5 yr payback at \$40/m gas svgs |
| SUB TOTAL | \$1,500.00 | \$2,700.00 | \$2,700.00 | \$2,700.00 | | |

| | | | | | | |
|----------------------|-------------------|-------------------|--------------------|--------------------|----------|------------------------------|
| HEATING | | | | | | |
| repalce furance-A/C | \$6,000.00 | | | | | |
| Complete sys. +90% | | \$7,000.00 | | | | |
| heat pump | | | \$12,000.00 | | estimate | 8 yr payback @ 30% gas svgs |
| geo thermal vertical | | | | \$20,000.00 | | 8-13 yr payback @25-50% svgs |
| | | | | | | 3,000.00 Fed rebate |
| SUB TOTAL | \$6,000.00 | \$7,000.00 | \$12,000.00 | \$20,000.00 | | |

| | | | | | | |
|-------------------|-------------------|-------------------|-------------------|-------------------|--|----------------------------|
| APPLIANCES | | | | | | |
| standard | \$3,500.00 | | | | | |
| energy star | | \$5,500.00 | \$5,500.00 | \$5,500.00 | | 16yr payback@\$125/yr svgs |
| | | | | | | |
| SUB TOTAL | \$3,500.00 | \$5,500.00 | \$5,500.00 | \$5,500.00 | | |

| | | | | | | |
|---------------|--------------------|---------------------|---------------------|---------------------|--|--|
| TOTALS | \$70,100.00 | \$107,000.00 | \$137,340.00 | \$162,210.00 | | |
| | | 12% | 29% | 37% | | |