

# COASTAL BEND GREEN BUILT



## GREEN BUILDING INITIATIVE GUIDELINE CHECKLIST

(Please provide a check mark and method of compliance by your selection)

Builder Name: \_\_\_\_\_ Home Series: \_\_\_\_\_

Site Address \_\_\_\_\_

### SITE

Select a minimum of <u>5</u> items	When Verified	Responsible Party	How verified	Value	Pts.
S1. Identify goals with your team. Establish a knowledgeable team by identifying team member roles and writing a mission statement that includes project goals and objective.	Planning	Builder w/Checklist	Builder maintains file including builder or assigned person for CBGB program. Builder should identify Green Verifier team member. Provide green verifier how each element of program will be complied with.	2 pts.	
S2. Select the site to minimize environmental impact. Avoid environmentally sensitive areas identified through site foot printing process.	Planning	Builder/Developer	When building in an already developed subdivision, credit will be given.	1 pt.	
S3. Use infill lot. Infill is defined as vacant or underutilized lots of land served by existing physical installations such as roads, power lines, sewer, water and other infrastructure.	Planning	Builder/Developer	When building on a lot platted in an already developed subdivision of 5 years or more, credit will be given.	3 pts.	

S4. Use reasonable efforts to protect all trees during construction, including the use of tree fencing, limiting the amount of fill dirt on the root system and limiting any trenching around trees.	Pre-drywall inspection	Verifier or Builder	When building on already developed subdivision, verifier checks for presence of tree protection measures during regularly scheduled visits.	1 pt.	
S5. Create mulch out of clearing of vegetation.	Pre-drywall inspection	Verifier or Builder	When building on an already developed subdivision lot, credit will be given. When building on undeveloped lot, verifier checks for evidence of mulching during pre-drywall inspection.	2 pts.	
S6. Minimize the site disruption by designating parking, equipment and material storage and staging away from root protection zones. (SWPP)	Before Pre-drywall inspection	Builder	Builder designates parking and material staging areas at the worksite to protect any existing trees and minimize further soil compaction.	1 pt.	
S7. Provide surface drainage away from foundation.	Final inspection	Verifier or Builder	Determines surface drainage complies with 2009 IRC.	1 pt.	
S8. Conform to local or state regulations or implement EPA Best Management Practices for erosion and sedimentation control during construction.	Before Pre-drywall inspections	Verifier or Builder	Can be attested by builder providing a copy of NOI to Verifier during regularly scheduled visits to the subdivision.	1 pt.	
S9. Lot is in a neighborhood with a park or common area or within walking distance to a park.	Final Inspection	Verifier or Builder		3 pts.	
S10. Select a site within 1 mile of a Hike and Bike Trail.	Planning	Verifier or Builder		2 pts.	
S11. Preserve existing trees during construction.	Planning	Builder		3 pts.	
S12. Replant large trees (20 gallon) on the construction site.	Final	Verifier or Builder		3 pts.	
S13. Select a site in a neighborhood within walking distance to mass transit.	Planning	Verifier or Builder		1 pt.	
S14. Plant trees as listed in the city of Corpus Christi xeriscape list.	Final	Verifier or Builder		2 pts.	

## MATERIALS/RESOURCE EFFICIENCY

Select a minimum of <u>14</u> items	When verified	Responsible Party	How verified	Value	Pts.
M1. Create an efficient floor plan that maintains a home's functionality.	Before Pre-drywall inspection	Verifier or Builder	<b>Builder's floor plan/design considers the following concepts/tradeoffs</b> in design, while maintaining functionality, architectural appeal and affordability: (1) Opportunities to minimize slab, wall, ceiling and window areas while maintaining architecturally appealing design and flow. (2) Placing AC equipment and ducts within conditioned space to maximize system efficiency. (3) Selection of materials and methods to reduce thermal bridging. (4) Minimizing roof pitch (minimizes present and future material requirements and increase wind resistance.	1 pt.	
M2. Use building layouts that maximize resources and minimize material cuts.	Before Pre-drywall inspection	Verifier or Builder	Builder demonstrates that home is designed for standard material sizes or that cut-off material will be re-utilized in another part of the house so that waste is minimized.	1 pt.	
M3. Create a detailed framing plan and material takeoffs.	Before Pre-drywall	Verifier or Builder	Verifier sights builders framing plan/material takeoff sheet.	3 pts.	

	inspection		Demonstrates by above methods that minimum required materials are brought to site so that waste is reduced.		
M4. Use materials requiring no additional finish resources to complete application onsite, i.e. pre-finished fiber cement, pre-painted fiber cement, vinyl siding and handrails.	Before Pre-drywall inspection	Verifier or Builder	Verifier sights presence of at least one product category. For each product 75% must be used throughout house. Must be finished painting.	2 pts.	
M5. Use pre-cut joist or pre-manufactured floor truss and studs.	Before Pre-drywall inspection	Verifier or Builder	Verifier sights presence of at least 75% of product category used though out house.	1 pt.	
M6. Provide covered front entry.	Pre-drywall or Final inspection	Verifier or Builder	Verifier sights presence of covered entry, minimum overhang of 4' required.	1 pt.	
M7. Use recommended-sized roof overhangs for climate (minimum 16")	Pre-drywall or Final inspection	Verifier or Builder	Verifier sights that distance from exterior wall (stud) to fascia board is at least 15.5".	1 pt.	
M8. Install drip edge at eaves	Before Pre-drywall inspection	Verifier or Builder	Verifier sights drip edge installed at final inspection at ALL eaves. Builder responsible for correct installation.	1 pt.	
M9. Maximize use of termite-resistant materials (i.e. fiber cement board, treated plates and/or termite shields)	Pre-drywall inspection	Verifier or Builder		1 pt.	
M10. Provide a weather-resistant barrier behind the exterior veneer or siding. Perm value must meet the 2015 IECC.	Pre-drywall inspection	Builder	Builder verifies that a suitable weather resistant barrier is installed behind the exterior veneer or siding as per manufacturer's instructions and building code. <b>Photo evidence is recommended.</b>	1 pt.	
M11. Employ and show on plans, all flashing details.	Planning	Verifier or Builder	Builder incorporates all flashing details in plan <b>OR</b> references written builder specifications on plans.	1 pt.	
M12. Conduct onsite recycling efforts.	Pre-drywall inspection	Verifier or Builder	Builder demonstrates or provides at least <b>three</b> examples of onsite recycling or re-utilization methods to prevent material waste.	2 pts.	
M13. Use materials manufactured from renewable resources, in interior construction (bamboo, cork, recycled glass, mdf, finger-jointed trim)	Pre-drywall inspection	Verifier or Builder	Verifier sights invoice and documentation of material content (provided by Builder). Builder to maintain evidence on file.	1 pt.	
M14. Reclaimed content materials or materials manufactured from renewable resources.	Pre-drywall or Final Inspection	Verifier or Builder	Verifier sights invoice and documentation of material content (provided by builder). Builder to maintain evidence on file.	2 pts.	
M15. Recycled or reclaimed content materials or materials manufactured from renewable resources are used for the exterior construction/structural framing or insulation (cellulose, OSB, fly ash).	Pre-drywall or Final Inspection	Verifier or Builder	Verifier sights invoice and documentation of material content (provided by builder). Builder to maintain evidence on file.	1 pt.	
M16. Use locally available, indigenous materials to minimize transportation and processing costs. Use materials common to local region (within a 300-mile radius).	Pre-drywall or Final inspection	Verifier or Builder	Verifier sights invoice and builder supplied documentation on manufacturing site. Builder to maintain evidence on file.	2 pts.	
M17. Use engineered lumber products to maximum extent possible to include trusses, joists, and finger-jointed dimensional lumber.	Before pre-drywall inspection	Verifier or Builder	Verifier sights presence of at least one product category. At least 75% of product category used throughout house must meet the requirement.	1 pt.	
M18. Use sustainable exterior cladding (i.e. brick, stucco, stone). Siding and shingles must have a 25 yr. warranty (i.e fiber cement, vinyl).	Before Pre-drywall inspection	Verifier or Builder	Verifier sights builder supplied warranty documentation for ALL exterior cladding (roof and walls).	1 pt.	

M19. Install a minimum of #30 roofing felt or comparable advanced roof underlayment on entire roof for secondary moisture protection.	Before Pre-drywall inspection	Verifier or Builder	Builder show invoice of material used. <b>Photo evidence of roof covering prior to shingle recommended.</b>	1 pt.	
M20. Recycling Center in home.		Verifier or Builder		1 pt.	
M21. Dedicated interior recycling center.		Verifier or Builder		3 pts.	
M22. Radiant Barrier Decking.		Verifier or Builder		1 pt.	
M23. Low E windows with a U value of .35 or less and a SHGC of .25 or less.		Verifier or Builder		2 pts.	
M24. CFL Bulbs. (80% or more).		Verifier or Builder		1 pt.	
M25A. LED Bulbs (25% or more).		Verifier or Builder		3pts.	
M25B. LED Bulbs (80% or more).		Verifier or Builder		8 pts.	
M26A. Roof Deck Foam Only (10 pts.)		Verifier or Builder		10 or 15 pts.	
M26B. Whole House Foam Insulation (15 pts.)					

## ENERGY

Must complete at least E1	When verified	Responsible Party	How verified	Value	Pts.
E1. Make sure home exceeds latest version of International Energy Conservation Code / International Residential Code (2015 IECC/IRC) <u>and</u> be certified by a third-party inspector with a HERS rating of <b>72</b> or less. Third party inspectors must be a member of the CBHBA & the CBGB.	Final Inspection	Verifier	Verifier provides a completed thermal bypass inspection checklist and a completed field test of a duct blaster & a blower door.	2 pts	
E2. Hers rating of <b>65</b> or below.		Verifier		2 pts.	
E3. Home exceeds an Energy Star rating of 3.1 R8 or EFL of <b>Diamond Level.</b>	Final Inspection	Verifier		4 pts.	

## ALTERNATIVE ENERGY

Optional items	When verified	Responsible Party	How verified	Value	Pts.
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AE1. Gas – Must have 3 drops that include water heater, dryer & range or furnace. The only appliance not required by the builder is the dryer, all other appliances must be installed. (6pts.)	Final Inspection	Verifier or Builder		6 pts.	
AE1b. 4th drop for fireplace or pool heater. (+3 extra points).				3 pts.	
AE1c. 5 <sup>th</sup> drop for gas generator (+3 extra points).				3pts.	
AE1d. A gas dryer is installed by the builder. (+5 extra points).				5pts.	
AE2. Solar Panels		Verifier or Builder		15 pts.	
AE3. Wind		Verifier or Builder		2 pts.	

## WATER

Select a minimum of 8 items.	When verified	Responsible Party	How verified	Value	Pts.
W1A. Utilize water efficient sink fixtures: Kitchen/Utility (2.2 gpm or less) Lavatory (2.0 gpm or less) (1 pt.)	Before Pre-Drywall Inspection	Verifier or Builder	Verifier sights Builder supplied documentation showing <b>ALL</b> materials meet the requirement <b>OR</b> have plumbing contractor provide a written statement that all requirements are met. Flow testing by Verifier <b>NOT</b> required	1pt.	
W1B. Utilize water efficient sink fixtures: Kitchen/Utility (1.5 gpm) Lavatory (1.5 gpm) (3 pts.)				3 pts.	
W2A. Install low-flow toilets (1.6 gallons/flush or less) (1 pt.)	Final Inspection	Verifier or Builder	Verifier sights builder supplied documentation showing <b>ALL</b> materials meet the requirement <b>OR</b> have plumbing contractor provide a written statement that requirements are met. Flow testing by Verifier <b>NOT</b> required.	1 pt.	
W2B. Less than 1.6 gallons/flush. (3 pts.)				3 pts.	
W2C. Dual Flush ( 5 pts.)				5 pts.	
W3A. Install low-flow shower heads (2.5 gpm total) (1pt.)	Final Inspection	Verifier or Builder	Verifier sights builder supplied documentation showing <b>ALL</b> fixtures meet the requirement <b>OR</b> plumber may provide a written statement that all requirements are met. Flow testing by Verifier <b>NOT</b> required. Confirmation of fixture performance must be sent to verifier at least twice annually.	1 pt.	
W3B. Install low-flow shower heads (2.0 gpm total) (3pts.)				3pts.	

W4. Locate water heaters <u>or</u> storage tank within 30 feet of fixture <u>or</u> install hot-water-on-demand system.	Pre-drywall inspection	Verifier or Builder	Verifier sights presence of method used for compliance <b>OR</b> have plumbing contractor provide written statement that all requirements are met.	1pt.	
W5A. Tankless gas water heater (10 pts.)		Verifier or Builder		10 pts.	
W5B. Heat pump water heater (10 pts.)				10 pts.	
W5C. Circulation pump (5 pts.)				5 pts.	
W6. Manifold plumbing systems utilizing tubing (for single family detached homes).		Verifier or Builder		3pts.	
W7A. The dishwasher is an ENERGY STAR ® labeled product.	Final Inspection	Verifier or Builder	Verifier visually confirms presence of ENERGY STAR ® label on appliance of builder supplied documentation showing appliance is on the ENERGY STAR ® “approved” list if unit is not labeled.	1pt.	
W7B. The washing machine is an ENERGY STAR ® labeled product.				7pts.	
W7C. Refrigerator is an ENERGY STAR ® labeled product.				7 pts.	
W8A. Utilize only water conserving and regionally appropriate turf (i.e. flora-tam, St. Augustine). If parts of the yard will not receive turf at time of sale, provide homeowner education on recommended turf varieties for the area. (1 pt.)	Final Inspection	Verifier or Builder	Verifier sights builder supplied documentation. Recommend turf supplier provide certification statement stating <b>ALL</b> installed turf is appropriate for the area.	1 pt.	
W8B. Bermuda Grass, Buffalo, Zoysia (4 pts.)				4pts.	
W9. Divert water away from foundation and into landscape areas.	Final Inspection	Verifier or Builder	Verifier or builder sights that, in their opinion, reasonable efforts were made to capture water runoff into landscape areas away from the foundation.	1pt.	
W10. Turf grass will constitute no more than 50% of the yard.	Final Inspection	Verifier or Builder	Verifier sights builder supplied documentation.	10pts.	
W11. Limit landscape to drought tolerant varieties. See attached Xeriscape list from the City of Corpus Christi Website.	Final Inspection	Verifier or Builder	Verifier sights builder supplied documentation. Recommend landscape provider provide certification statement that <b>ALL</b> supplied landscape plants meet Xeriscape requirements.	1 pt.	
W12. Install mulch (3-4” deep minimum) around plants and include bed covering (utilize City of Corpus Christi mulch program).	Final Inspection	Verifier or Builder	Verifier or builder sights presence of mulch to the required depth.	1pt.	
W13A. Irrigation system has separate zones for turf and bed and rotary heads.	Final Inspection	Verifier or Builder	Builder or landscaping professional must clearly denote separate zoning on irrigation control box. Verifier confirms separate zoning indicated on control box. Alternatively, the <b>LICENSED</b> installer may provide certification statement indicating all requirements are met.	8pts.	
W13B. Rotary heads where possible.				2pts.	

W13C. Rain Sensor.				2pts.	
W13D. Drip Irrigation system.				8pts.	
W13E. Yard does not exceed over 50% of lot.				8pts.	
W14. Install rain sensors <u>or</u> weather forecast based irrigation controller	Final Inspection	Verifier or Builder	Verifier or builder sights presence of mulch to the required depth.	3pts.	
W15A. Roof run-off, must drain onto a pervious surface (turf or landscaping).	Final Inspection	Verifier or Builder	Verifier or builder sights compliance at final inspection.	1pt.	
W15B. Downspouts are installed and drain onto turf or landscaping.				5pts.	
W16. Water filtration system.	Final Inspection	Verifier or Builder	Verifier or builder sights compliance at final inspection.	6 pts.	
W17. Rain barrel or rain filtration system	Final Inspection	Verifier or Builder	Verifier or builder sights compliance at final inspection.	5 pts.	
W18. Collection of A.C. condensation or dehumidifier system.	Final Inspection	Verifier or Builder	Verifier or builder sights compliance at final inspection.	4 pts.	
W19. Grey Water system.	Final Inspection	Verifier or Builder	Verifier or builder sights compliance at final inspection.	10pts.	
W20. Rain Garden.	Final Inspection	Verifier or Builders	Verifier or builder sights compliance at final inspection.	10pts.	

## INDOOR AIR QUALITY/MOISTURE CONTROL/HEALTH

Select a minimum of <u>10</u> items	When verified	Responsible Party	How verified	Value	Pts.
IA1. Provide power sealed combustion or mechanical/induced venting providing fresh combustion air <b>for gas furnaces and water heaters</b> located inside conditioned spaces <u>or</u> no gas appliances installed in conditioned space.	Final Inspection	Verifier or Builder	Verifier sights presence of requirements during final inspection. Licensed AC/Plumbing contractors may provide certification statement that product meets the requirement.	1pt.	
IA2. Vent kitchen range hoods to exterior with a damper.	Pre-sheetrock	Verifier or Builder	Verifier sights range vent pipe routed to exterior at Pre-sheetrock.	1pt.	
IA3. Use 2" pleated paper filters for central air conditioners or install whole house Media filter (minimum MERV 7). <b>No "ozone" type filters allowed.</b> (1 pt.)	Final Inspection	Verifier or Builder	Verifier sights presence of product during final inspection. Product must be clearly labeled or builder documentation is required.	1 or 2 pts.	
IA3B. MERV 11 or better. (2 pts.)					

IA4. For homes with gas appliances <b>or</b> attached garage, install one carbon monoxide detector with American Gas Association (AGA) IAS 696 Blue Star Certification Seal every 1,000 sq. ft. (near bedrooms) at a minimum of one per floor.	Final Inspection	Verifier or Builder	Verifier sights presence of products during final inspection. Product must be clearly labeled or builder documentation required.	1pt.	
IA5. Any fireplace installed must have combustion air direct from exterior or <b>no</b> fireplace installed.	Final Inspection	Verifier or Builder	Verifier sights presence of requirements during final inspection. System installer may provide certification statement that product meets the requirement.	1pt.	
IA6. Cover ducts during construction.		Verifier or Builder	Verifier sights suitable covering over AC ducts at Pre-drywall inspection <b>or</b> builder documentation that duct system has been cleaned at Final Inspection.	1pt.	
IA7. Choose low-VOC interior paint, sealants and adhesives	Final Inspection	Verifier or Builder	Builder supplies documentation that at least 80% of products are low VOC.	1pt.	
IA8. Use Carpet and Rug Institute's Green Label certified carpet on at least 50% of the flooring in the living space. If at least 50% of living space is hard surface, standard carpeting may be used.	Final Inspection	Verifier or Builder	Builder supplies documentation that carpets/rugs are "Green Label" certified, if required. Builder provides Verifier with square footage of hard surface products and carpet <b>prior</b> to final inspection.	1pt.	
IA9. Ensure particleboard, medium density fiberboard (MDF) and hardwood plywood substrates are certified to low formaldehyde emission standards.	Final Inspection	Verifier or Builder	Builder supplies invoices and supplier documentation showing that at least 90% of product category used in the house meet the requirement.	1pt.	
IA10. Ensure proper flashing at windows and doors as well as sealing.	During Construction	Builder	Builder ensures all windows and doors are flashed as per appropriate building material specifications and building codes. <b>Photo evidence is recommended.</b>	1pt.	
IA11. Avoid attached garage or isolate garage from the living space by providing a tightly sealed, gasketed door or opening between garage and conditioned space.	Final Inspection	Verifier or Builder	Verifier sights solid exterior door, installed with gasket on final inspection, if required.	1pt.	
IA12. Install return air ducts, jump ducts or transfer grills in all bedrooms.	Pre-Drywall	Verifier, Builder or A/C Contractor	Verifier sights presence of material at rough in. AC Contractor responsible for correct sizing of ducts/grills as per ACCA documents.	1pt.	
IA13. Fresh air ventilation system.		Verifier or Builder		2 pts.	
IA14. Installation of whole house dehumidification system or heat recovery ventilation.		Verifier or Builder		1 pt.	
IA15. 15 SEER - heat pump.		Verifier or Builder		1 pt.	
IA16. 16-18 SEER - heat pump.		Verifier or Builder		2 pts.	
IA17. 19 SEER or higher - heat pump.		Verifier or Builder		3 pts.	
IA18. Installation of electronic or multimedia air filter.		Verifier or Builder		1 pt.	
IA19. Germocidal system. (UV lights)		Verifier or Builder		2 pts.	



IA20. Programmable thermostat.		Verifier or Builder		1 pt.	
IA21. Smart thermostat.		Verifier or Builder		1 pt.	

## HOMEOWNER EDUCATION

Must complete all <u>3</u> items.	When verified	Responsible Party	How verified	Value	Pts.
H1. Builder or builder's designated employee to oversee the builder's green building program.	Final Inspection	Builder or Verifier	Verifier sights written evidence that Builder has designated a responsible individual to oversee the Builder's green building program.	1 pt.	
H2. Provide Home Manual to owners on the use and care of their home.	Final Inspection	Builder or Verifier	Verifier sights Builder's written homeowner orientation forms/checklist/manual, showing that homeowner has received basic education in care or use of their home.	1 pt.	
H3. Provide education to owners in the use and care of their dwellings. Instruct homeowner about the building's goals and strategies and occupants impact on costs of operating the building. Provide training to owners for all control systems in the house.	Final Inspection	Builder or Verifier	Verifier sights Builder's written homeowner orientation forms/checklist/manual showing that homeowner has received basic education in care or use of their home.	1 pt.	
H4. Provide City Parks and Recreation information to homeowner relating to the location of city parks, city hike and bike trails and the 2012 parks and recreation Strategic Master Plan.	Final Inspection	Builder or Verifier		1 pt.	

## GLOBAL IMPACT STATEMENT

Must complete.	When verified	Responsible Party	How verified	Value	Pts.
G1. Demonstrate that builder's operations and business practices include environmental management concepts (i.e. "green" stationary and envelopes, recycling bins, etc).	Final Inspection	Verifier or Builder	Builder demonstrates or provides at least <b>three</b> examples of business practices/concepts which minimize environmental impact.	2 pts.	

I, the builder, agree to meet the minimum required elements of each section.

Green = 45

Silver = 60

Gold = 75

Platinum = 100

Score: \_\_\_\_\_

**BUILDER**

\_\_\_\_\_  
Company

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Person Completing Form

\_\_\_\_\_  
Date

\_\_\_\_\_  
Title

Submit completed form to:  
E-Mail: [Mekaila@coastalbendhba.org](mailto:Mekaila@coastalbendhba.org)

**Green Inspector**

\_\_\_\_\_  
Company

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Name of Person Completing Form

\_\_\_\_\_  
Date

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Title

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Comments

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Submit completed form to:  
E-Mail: [Mekaila@coastalbendhba.org](mailto:Mekaila@coastalbendhba.org)