

Built Green Program Recycling Guidelines *Effective November 2022*

The Built Green checklist allows you to claim points for using source separated recycling or comingled recycling to manage construction waste materials created from the construction process. Demolition waste is not included in the recycling rate requirements, see Deconstruction and Reuse category of the Materials Efficiency section for points related to demolition waste management.

For projects certifying with checklist versions prior to Version 2021 Checklists, builders may only earn points for one type of recycling strategy, source separated or comingled recycling, in the Materials Efficiency section. Even if a combination of source separated and comingled recycling was used, you may only collect points for one strategy.

For projects certifying with Version 2021 Checklists, builders may combine source separated and comingled recycling strategies and earn points in the Materials Efficiency section.

RECYCLING REQUIREMENTS

1. Source Separated

To qualify:

- Recycling is separated on site into designated containers
- Recycled separated materials must achieve a recycling rate of 90% or better

Documentation required:

- Use a spreadsheet to track and report required documentation information and to calculate overall project recycling rate
 - Columns: dates of drop-off, materials dropped off, total quantity per load, amount of the quantity recycled per load
 - Sum of total quantity of waste, sum of total quantity recycled
 - Percent recycled for the project
- Receipts or invoices that indicate what was recycled and not recycled, how much was recycled, and what facility was used
 - *Note:* When no receipts or weight scale tickets are available from the facility, document materials and amount recycled with photos of the on-site collection bins or the load being hauled to a recycling facility, and the facility's bin where the material was deposited. Estimate material weight using the volume to weight conversions in Appendix A, page 4.
 - If curbside garbage pick-up is used for non-recyclable waste, include a bill for the size of the bin collected during the project. This waste must be accounted for in the project's overall recycling rate to confirm it is 10% or less of overall waste.
- Each type of material recycled needs to have documentation to receive credit
 - *Note:* If drywall installers take all drywall scraps for reuse or recycling, this is acceptable and should be noted in the comments section of the credit.

2. Comingled

To qualify:

- Recyclables are collected and hauled in one container
- Waste (non-recyclables) are collected and hauled in a separate container
- To receive comingled credits, you must use comingled recycling for 90% of your jobsite C&D materials (by weight, excluding concrete, brick, and asphalt)
- Facility must be a Qualified Facility as determined by the [SPU Facility Certification Program](#) or [Recycling Certification Institute](#) (RCI). Facility-supplied Diversion reports may not be used in place of the rates listed in Built Green's Qualified Facilities list below.
- Projects sites located outside of King, Snohomish, and Pierce Counties that want to use a comingled recycling facility outside of the Built Green Qualified Facilities list, that is located closer to the project site, must request a LEED Diversion report from that facility to document the diversion rate of their comingled loads.

Documentation required:

- Receipts or invoices that document recycling and waste (disposal) loads. Documentation should include amounts and facility or facilities that were used.
 - Note: If the hauler is separate from the end recycling facility, documentation must be provided as to which recycling facility the materials were taken.

QUALIFIED FACILITIES

Facility Comingled Diversion Rates

Facility	June 2020 Rate	July 2021 Rate	April 2022 Rate	November 2022 rate
DTG - Maltby (formerly Bobby Wolford)	46%	62%	67%	51%
DTG - Recovery 1	70%	60%	58%	52%
DTG - Renton	35%	23%	24%	26%
DTG - Seattle	74%	72%	69%	56%
DTG - Woodinville	49%	32%	31%	N/A**
DTG - Woodinville West	N/A	N/A	30%	29%
Maltby Container & Recycling - Snohomish	64%	86%	N/A*	N/A*
United Recycling & Container - Seattle	80%	86%	71%	65%
United Recycling & Container - Snohomish	89%	93%	91%	77%

The following facilities do not currently accept comingled loads. Documentation and points claimed for using these facilities must fall under the source separated section: *Republic Services - Black River, Republic Services - 3rd and Lander, Waste Management - Cascade Recycling Center, Waste Management - Recycle Northwest, King County Transfer Station, Seattle Transfer Station.*

* As of 11/31/2021, Maltby Container and Recycling - Snohomish was acquired by DTG and is no longer accepting C & D waste at this location.

**DTG Woodinville is no longer listed as a SPU Qualified Facility.

ALTERNATIVE STAR-LEVEL RECYCLING RATE REQUIREMENT PATHWAY

Due to the decreasing diversion rates of our region's comingled recycling facilities' landfill diversion rates, an alternative pathway for star-level recycling rate requirements may be utilized for Built Green program compliance. For Single-family/ Townhome projects, this alternative compliance pathway only satisfies the recycling rate requirement, it does not replace the credits or points related to recycling in the Materials Efficiency section. Innovation points may be available per the Built Green Program Manager's discretion. For Multifamily projects, points may be claimed for total waste reduction under Credit 5-9.

Alternative Recycling Rate Performance Requirements

To qualify:

Using comingled waste and/or source-separation disposal, reduce total waste generated on site below national average for residential construction. Count landfilled material at 100% of weight. Materials that are recycled at a facility from the above Qualified Facilities list can be calculated using the facility's diversion rate during the time of construction. Count 50% of weight of recycled material. The denominator is the conditioned floor area of the project, including leasable commercial space, whether finished or not.

Formula:
$$\frac{\text{Weight of landfilled material} + (\text{Weight of Recycled Material} * (1 - \text{diversion rate of facility})) + (\text{Weight of recycled material} * \text{diversion rate of facility} * 50\%)}{\text{Conditioned Square Footage}}$$

4-star: Total waste generated from construction equal or less than 2.5 lbs waste/ sq. ft

5-star: Total waste generated from construction equal or less than 1.5 lbs waste/ sq. ft

- Credit points related to the two recycling types are still applicable if they meet their respective performance qualifications
- Comingled recycling facilities that have a diversion rate of less than 50% may be used for disposal but will not be eligible for comingled recycling points in the checklist
- Innovation points will only be granted to projects that use this strategy and do not earn points through the standard recycling credits

Documentation required:

- Follow documentation requirements for comingled and source-separated recycling used as described on page 1
 - Use Appendix A for volume to weight conversions to estimate material waste quantities that are not weighed on a C&D waste facility scale
- Use a spreadsheet that shows the weights of the loads, diversion rates applied, and the calculation to determine the reduction in total waste
 - Columns: dates of drop-off, materials dropped off, total quantity, amount of the quantity recycled or facility diversion rate from table on page 2
 - Total waste generated lbs/sq.ft.

Appendix A

Volume to Weight Conversion Table for Construction and Demolition Debris

2,000 pounds = 1 ton

Material Type	Pounds/Cubic Yard	Tons/Cubic Yard
Mixed Construction and Demolition (C&D) Debris	417	.2085
Trash/Municipal Solid Waste (MSW)	417	.2085
Appliances (White Goods)	340	0.17
Bulky Items (mattresses, box springs, sofas, etc.)	80	0.04
Cardboard and Paper	100	0.05
Carpet	147	0.0735
Carpet Padding	63	0.0315
Concrete and Asphalt	1,400	0.7
Fiberglass Insulation	17	0.0085
Glass (Plate Glass)	1,400	0.7
Gypsum Board (sheetrock)	467	0.2335
Metal	225	0.1125
Plastic	40	0.02
Roofing materials	731	0.3655
Tires	200	0.1
Wood	169	0.0845

Volume to Weight Conversion Table for Land Clearing and Excavation Debris

2,000 pounds = 1 ton

Material Type	Pounds/Cubic Yard	Tons/Cubic Yard
Tree Branches, Stumps, & Clean Plant Debris	127	0.0635
Soil, Dirt, and Clean Fill	929	0.4645
Sand, Gravel, and Rock	999	.04995
Contaminated Plant Debris (Disposal OK)	127	0.0635

Source: Contra Costa Waste Authority