



LEED BD+C: Multifamily Midrise | v4 - LEED v4



Total water use

Possible 12 points

Glossary

Intent

To reduce demand for water through high-efficiency fixtures and efficient landscaping practices.

Requirements

Reduce total indoor and outdoor water consumption by at least 10% over standard practices.

For indoor water savings, use the Water Reduction Calculator to determine the average flush or flow rate for each fixture type and the estimated daily usage. The baselines for indoor water consumption are shown in Table 1.

Table 1. Indoor water baseline consumption (per person per day)

Fixture	Baseline flush or flow rate		Estimated fixture usage	Estimated water usage	
Shower (per compartment)	2.5 gpm	9.5 lpm	6.15 minutes	15.4 gallons	58.4 liters
Lavatory, kitchen faucet	2.2 gpm	8.3 lpm	5.0 minutes	11 gallons	41.5 liters
Toilet	1.6 gpf	6 lpf	5.05 flushes	8 gallons	30.3 liters
Clothes washer	9.5 WF	9.5 WF	0.37 cycles @ 3.5 ft ² (@0.1 m ²)	15.1 gallons	57.1 liters
Dishwasher	6.5 gpc	24 lpc	0.1 cycles	0.7 gallons	2.4 liters

gpm = gallons per minute

gpf = gallons per flush

WF = water factor

gpc = gallons per cycle

lpf = liters per flush

lpm = liters per minute

lpc = liters per cycle

The water pressure in single-family buildings must not exceed 60 psi (415 kPa), with no detectable water leaks. Any installed water softeners must be demand initiated.

For outdoor water savings, use the EPA WaterSense Water Budget Tool to calculate the baseline landscape water consumption and the design landscape water consumption.

Implement the following measures to further reduce landscape water consumption. Add the savings associated with each of the following strategies to the reduction from the landscape water requirement, as calculated in the Water Budget Tool:

- Install smart scheduling technology. This strategy counts for a maximum reduction of 30% provided all landscape water use is controlled by a soil moisture sensor control system or a weather-based irrigation control system.
- Use captured rainwater.
- Use reclaimed water.
- Use water treated on site or conveyed by a public agency specifically for nonpotable uses (water from naturally occurring surface water bodies, such as streams and rivers, and groundwater, such as well water, does not count).

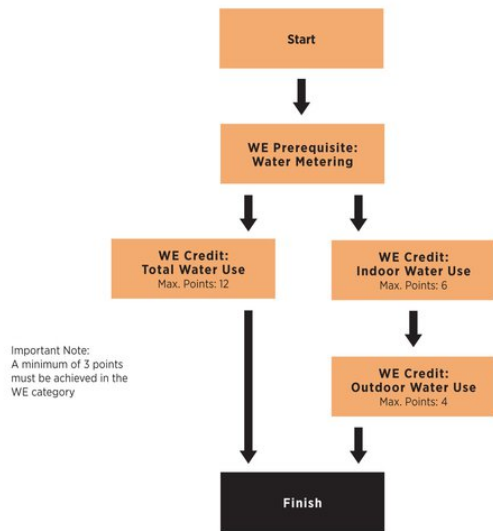
Points are awarded according to Table 2.

Table 2. Points for reducing indoor and outdoor water use

Percentage reduction	Points
10%	1
15%	2
20%	3
25%	4
30%	5
35%	6
40%	7
45%	8
50%	9
55%	10
60%	11
65%	12

Projects attempting this credit are not eligible to earn points under other Water Efficiency credits.

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Important Note:
A minimum of 3 points
must be achieved in the
WE category

Figure 1. Optional Pathways through the WE Category