



COLORADO

Department of Transportation

Office of the Chief Engineer

Materials and Geotechnical Services Branch
 4670 Holly Street
 Denver, CO 80216

January 1, 2025

Buy Clean Colorado Act - Maximum Acceptable Global Warming Potential (GWP) Limits

The Buy Clean Colorado (BCCO) Act (HB 21-1303) (C.R.S. 24-92-117) mandates that the Colorado Department of Transportation (CDOT) establish maximum acceptable Global Warming Potential (GWP) limits for eligible materials used in eligible projects. These materials include asphalt and asphalt mixtures, cement and concrete mixtures, and steel.

When permanently incorporated into eligible projects, these materials must meet the GWP limits set by CDOT. CDOT may establish sub-categories within each material category. The GWP thresholds are based on Environmental Product Declaration (EPD) data, which may change over time, as detailed in CDOT's Policy and Procedure documents. For more information, please visit the CDOT Environmental Product Declaration (EPD) webpage.

These GWP limits will apply to projects advertised on or after July 1, 2025. CDOT has not yet established GWP limits for certain material categories due to insufficient data, and a white paper will be published to explain the determination of these limits. CDOT may review and update GWP limits annually based on the availability, accuracy, and expiration dates of EPDs.

Table 3. 2025 GWP Limit Values

Material Category		2025 GWP Limit (kg/CO2-eq) at the 90 th percentile
Concrete (kg CO2-eq/m ³) ¹	Class P	346.2
	Class D	365.1
	Class B	360.0
Asphalt (kg CO2-eq/metric ton) ¹	S (neat binder)	77.0
	SX (neat binder)	83.4
	SX (modified binder)	89.0
	ST (neat binder)	90.4
	SMA (modified binder) ²	TBD





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Steel (kg CO ₂ -eq/metric ton)	Reinforcing Steel or Rebar	915.9
	Structural Steel ²	TBD
Precast/Prestressed (kg CO ₂ -eq/metric ton) ²		TBD

¹ Portable plants are currently exempt from GWP requirements until more data and data consistency is obtained. EPDs are still required as applicable per the project specifications.

² Lack of data at this time. It is anticipated that limits will be set for these materials once data availability and accuracy improve.

Please note: Items (mixtures, materials, products) for which GWP limits are not set per this table still require EPDs but are not bound by GWP limits at this time.

