

	Department of Design and Construction	SPECIFICATION BULLETIN	SB 23-004
Title: SUSTAINABLE CONSTRUCTION			
Prepared:	10/6/2023	Approved:	10/6/2023
Richard Jones, P.E. CWI CDT Chief Engineer	Date	How Sheen Pau, P.E.	Date
		Associate Commissioner – Infrastructure Design	

APPLICABILITY:

- This Specification Bulletin (SB) is effective for projects advertised on or after 10/20/2023.

SUPERSEDEENCE:

- This SB supersedes the following SBs: **None.**

ATTACHMENTS:

1. *Section 12.08 Sustainable Construction Requirements (2 pages)*

The New York City Department of Environmental Protection Standard Sewer and Water Specifications, Dated August 8, 2022 are hereby revised as follows:

- a) **Add** Section 12.08 – Sustainable Construction Requirements in Attachment 1.

For questions regarding this bulletin, please contact Richard Jones, jonesri@ddc.nyc.gov.

12.08 SUSTAINABLE CONSTRUCTION REQUIREMENTS

(1) Definitions.

- A. Embodied carbon: The greenhouse gas emissions arising from the manufacturing, transportation, installation, maintenance, and disposal of building materials.
- B. Environmental Product Declaration (EPD): A third-party-verified International Organization for Standardization (ISO) Series 14025 Type III declaration that quantifies environmental information on the life cycle of a product to enable comparisons between products fulfilling the same function.

(2) Submittals.

- A. EPDs: The Contractor must submit to the Engineer copies of all EPD's submitted to the Building Transparency database per Subsection 1.5.C.
- B. Low emission vehicles and equipment: The Contractor must submit to the Engineer a log of all internal combustion engine (ICE) powered equipment used on the Project. The log must be submitted at Substantial Completion, and include:
 - a. The type of equipment (generator, excavator, crane, light tower, air compressor, etc.),
 - b. The fuel used by the ICE,
 - c. The engine size in horsepower (HP), and
 - d. If the equipment was provided by a subcontractor, which one.

(3) Environmental Product Declarations

- A. EPDs are required for the following materials, if used:
 - 1. Steel materials:
 - a. Steel faced curb
 - b. Reinforcing bars
 - c. Ductile iron pipe and fittings, except manufactured components like valves
 - d. Steel pipe and fittings, except manufactured components like valves
 - e. Cast iron street and sewer hardware, including manhole covers, drains and grates, hoods and hooks, etc.
 - f. Structural steel
 - 2. Concrete materials:
 - a. All cast-in-place concrete
 - b. Precast pipe and box sewers. The EPD must be for the concrete as placed at the fabricator, not the product as delivered to the site.
- B. If EPDs are available for materials not listed in subsection 1.5.A, they must be submitted.
- C. EPDs must be submitted to the Building Transparency database, using the OpenEPD format, at <https://buildingtransparency.org/ec3>

(4) Low-Emission Vehicles and Equipment

- A. The Contractor must endeavor to minimize the greenhouse gas emissions from the Contractor's equipment. To achieve this goal, the following is required:
 - 1. Electric powered equipment is to be used where practical instead of internal combustion engine (ICE) powered equipment. The Contractor may refer to the NYC Department of Citywide Administrative Services (NYC DCAS) bi-annual publication, the Clean Fleet

Transition Plan (<https://www1.nyc.gov/site/dcas/agencies/fleet-sustainability.page>), in order to determine what equipment is available.

2. Where ICE powered equipment is necessary, efforts should be taken to ensure the most efficient ICE engines are used. This may include:
 - a. The use of larger efficient ICE generators to power multiple pieces of electric equipment,
 - b. Reductions in the use of less than 50HP engines,
 - c. Use of lower emission or renewable fuels, such as biodiesel or CNG,
 - d. Use of hybrid electric equipment, and
 - e. Other innovative methods proposed by the Contractor.
3. The Contractor is required to coordinate between all subcontractors and trades in order to reduce the number of ICE equipment and generators in use.