	Title: YALE OFFICE OF FACILITIES PROCEDURE MANUAL Chapter: 01 – Yale Design Standards Division: 03 00 00 Concrete	Section: 03 00 00 Requirements for Division 1
		Date: September 2025
		Author: Program Support & Technical Services

SECTION 03 00 00 – CONCRETE
[AUGUST 2025]

PART 1 - INTRODUCTION

1.1 PURPOSE

- A. Meet project specific performance criteria while reducing the greenhouse gas emissions of concrete.

PART 2 - GENERAL DESIGN REQUIREMENTS


- A. Structural Concrete
 1. Project Engineer to specify use of low-carbon concrete made with blended cements and supplementary cementitious materials (SCM).
 2. Project Engineer to specify use of carbon-absorbing and carbon capture technologies.
 3. The Consultant to submit a product-specific cradle-to-gate Type III environmental product declaration (EPD) for each concrete mix design specified in the contract and used at the project, using NSF International’s product category rule for concrete.

PART 3 - MINIMUM PRODUCT REQUIREMENTS

These requirements apply to all projects that use at least ten (10) cubic yards of concrete. Meet the low embodied carbon requirement of the U.S. General Services Administration Facilities Standards for the Public Building Service. <https://www.gsa.gov/real-estate/design-and-construction/facilities-standards-for-the-public-buildings-service>

Table 1.3 Low Embodied Carbon Concrete			
Maximum Global Warming Potential Limits for GSA Low Embodied Carbon Concrete (kilograms of carbon dioxide equivalent per cubic meter - CO2e kg/m3)			
Specified compressive strength (f'c in PSI)	Standard Mix	High Early Strength	Lightweight
up to 2499	242	314	462
2500-3499	306	398	462
3500-4499	346	450	501
4500-5499	385	500	540
5500-6499	404	526	N/A
6500 and up	414	524	N/A

These numbers reflect a 20% reduction from GWP (CO2e) limits in proposed code language: "Lifecycle GHG Impacts in Building Codes" by the New Buildings Institute, January 2022.

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Date	Description of Change	Pages / Sections Modified	ID
7/2022	New Document	-	CJ
10/ 2025	Revised U.S. General Services Administration reference.		CJ

END OF SECTION