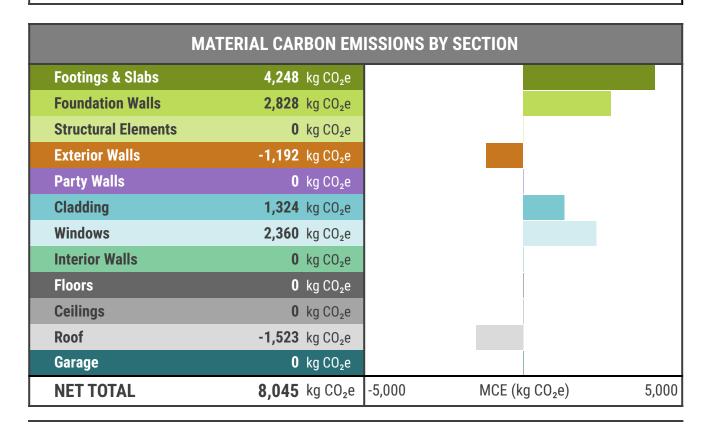
MATERIAL CARBON PROJECT RESULTS



Project Name	Montague Retrofit	Construction Year	1947
Scenario	Baseline	Stories Above Grade	1
Beam Version	V1.1	Number of Bedrooms	1
Design Firm(s)			
Engineering Firm(s)			
Builder / Developer	Sun Certified Builders Coop	CONDITIONED AREA	
Development Project		Above Grade	765 ft²
Street Address		Below Grade	704 ft ²
City	Winnipeg	Total	1469 ft ²
Country	Canada		
Province / State	Manitoba	GROSS AREA	
Building Type	Single Detached House	Excluding Garage	765 ft²
Construction Type	Energy Retrofit	Garage	0 ft²
Project Stage	Construction Complete	Total	765 ft²



BEAM RESULTS								
PROJECT EMISSIONS (MCE)								
NET EMISSIONS kg CO₂e	GROSS EMISSIONS kg CO₂e		ļ	STORAGE SHORT CYCLE kg CO₂		STORAGE LONG CYCLE kg CO ₂		
8,045	17,338			9,293			0	
PROJECT EMISSIONS INTENSITY (MCI)								
	Metric kg CO ₂ e/m ²	Imper Ib CO2e		Storin	g	Low	Avg	High
MCI Conditioned Floor Area	59	12						
MCI Total Floor Area MCI Per Bedroom	113 8,045	23 17,73		≤-100	0	100	200	300

HIGHEST EMITTING MATERIALS			
SECTION	kg CO₂e	MATERIAL	
Foundation Walls	2,705	XPS foam board / DuPont / Styrofoam ST-100 / R	
Windows	2,360	Window - triple pane / Fiberglass frame / BfCA Stu	
Footings & Slabs	2,152	XPS foam board / DuPont / Styrofoam ST-100 / R	
Footings & Slabs	1,799	Concrete – 25 MPa, GU / Concrete Manitoba [Indu	
Cladding	1,301	Cement "Stucco" Plaster / 1:1:4 mix of Portland, n	
Roof	842	Metal panels - steel / ArcelorMittal / XCarb RRP /	
Exterior Walls	674	Ext. Wall & Roof Barrier, liquid applied / Carlisle / I	
Roof	526	Wood roof truss / Gable Roof, Double Howe, 2x6 (
Roof	391	OSB sheathing / 1/2" / AWC & CWC [Industry Avg	
Exterior Walls	362	Plywood / 1/2" / AWC & CWC [Industry Avg US &	

HIGHEST CARBON-STORING MATERIALS				
SECTION	kg CO ₂ e	MATERIAL		
Roof	-3,319	Cellulose / dense pack / CIMA / R 3.7-inch / [Indu		
Exterior Walls	-2,314	Cellulose / dense pack / CIMA / R 3.7-inch / [Indu		
Exterior Walls	-236	Wood fiber board / R 2.7-inch / NAFA [Industry Av		

COMMENTS

Canada National Guidelines for Whole Building LCA

Results from BEAM have the intended use of *informing design* and/or *meeting requirements*, if the requirements clearly indicated BEAM as an acceptable tool. Results from BEAM are not intended to be a *performance declaration* as defined by ISO 14044 and is not intended to support comparative assertions by the definitions of ISO 14044.

Name of commisioner of the assessment:			
Name of assessor(s):			
Qualification(s) of assessor(s):			
Date of assessment:			
Verification:	YES NO		
Name and contact of verifier:			
Functional equivalent:	Residential Buildings designed as permanent structure according to Other applicable building code		
If other, please define:			
Reference units: See Project Information above			
System boundary: LCA results include modules A1-A3 (cradle-to-gate analysis). All other modules not declared.			
Reference study period: Pre-construction and/or completion of construction only			
Scope of the building model: Material use only for product categories listed in BEAM			
Data sources: Type III EPDs, or as noted in Column M			
Delayed emissions: Climate effects of delayed emissions resulting from biogenic carbon do not include potential impacts of carbon released at end of product life.			