

## SE 2050 Beta Database Data Fields

This document outlines the project data intended to be collected by the SE 2050 Beta Database. Included is a description of how identifying data is intended to be kept confidential.

### Project Descriptors

Parameter	Source	Variables	Confidential?	Notes
Project Name			Yes	
Location		[5-digit zip code]	Grouped by larger geographic area to maintain confidentiality	Apply data validation (only valid zip codes accepted)
Primary Building Use Type	IBC Chapter 3	Commercial; Assembly; Educational; Factory and Industrial; High Hazard; Institutional; Mercantile; Residential; Storage; Utility and Maintenance; Other	No	Allow for user entry if "Other" selected
Construction Type		New Construction; Major Renovation of Existing Building		
Construction Year Completed (or Anticipated)		[year]	Grouped into increments to maintain confidentiality	Drop down of years
Current Project Phase		Concept; Schematic; Design Development; Construction Documents; Construction; Completed; Theoretical	No	

Parameter	Source	Variables	Confidential?	Notes
Expected Building Life (years)		20, 60, 75, 100, Other	No	Default is 60; allow for user entry if "Other" selected
Gross Square Footage		[gross square footage]	Grouped into increments to maintain confidentiality	
Mean Roof Height (feet)	ASCE 7	[feet]	Grouped into increments to maintain confidentiality	
Number of Stories Above Grade			No detail over an established number of stories to maintain confidentiality	
Number of Stories Below Grade			No detail over an established number of stories to maintain confidentiality	
Typical Column Grid, Long Direction (feet)		[feet]	Grouped into increments to maintain confidentiality	
Typical Column Grid, Short Direction (feet)		[feet]	Grouped into increments to maintain confidentiality	

Parameter	Source	Variables	Confidential?	Notes
Risk Category	ASCE 7	I (low risk to human life); II (all buildings and other structures); III (buildings with a substantial risk to cause economic impact and/or mass disruption); IV (buildings and other structures designated as essential facilities or the failure of which could pose a substantial hazard to the community)	No	
Typical Floor Live Load (psf)	ASCE 7	[psf]	No	
Ground Snow Load (psf)	ASCE 7	[psf]	No	Zip code to automatically populate via ATC; option for manual override
Ultimate Wind Speed (mph)	ASCE 7	[mph]	No	Zip code to automatically populate via ATC; option for manual override
Seismic Site Class	ASCE 7	A; B; C; D; E; F	No	
Seismic Design Category	ASCE 7	A; B; C; D; E; F	No	Zip code to automatically populate via ATC; option for manual override

Parameter	Source	Variables	Confidential?	Notes
Primary Horizontal Gravity System		Composite Steel Beams and Composite Metal Deck; Steel Beams and Metal Deck; Open Web Steel Joists and Metal Deck; Glulam Beams and Timber Panels; Light-Frame Wood Joists and Sheathing; Concrete Beams and One-Way Slabs; Concrete Two-Way Slabs; Post-Tensioned Concrete Two-Way Slabs; Other	No	Allow for user entry if "Other" selected
Primary Vertical Gravity System		Steel Columns; Glulam Columns; Light-Frame Wood Bearing Walls; Light-Frame Cold-Formed Steel Bearing Walls; Cast-in Place Concrete Columns; Concrete Bearing Walls; Masonry Bearing Walls; Other	No	Allow for user entry if "Other" selected

Parameter	Source	Variables	Confidential?	Notes
Primary Lateral System	ASCE 7	Concrete Shear Walls; Precast Shear Walls; Masonry Shear Walls; Light-Frame Wood Sheathed Walls; Light-Frame Cold-Formed Steel with Flat Bracing; Cross-Laminated Timber Shear Walls; Steel Braced Frames; Steel Moment Frames; Concrete Moment Frames; Other	No	Allow for user entry if "Other" selected
Allowable Soil Bearing Pressure (psf)		2,000; 3,000; 4,000; 5,000; 6,000; 7,000; 8,000; 9,000; 10,000; 15,000; 20,000; 30,000; 40,000	No	
Foundation Type		Shallow; Deep	No	

**Project GWP Data**

Parameter	Source	Variables/[Units]	Confidential?	Notes
Total GWP		[kg CO2e]	No	
LCA Tool		Athena IE; Tally; Beacon; Quartz; EC3; One Click; thinkstep; EPDs; Other	No	Allow for user entry if "Other" selected
LCA Tool Version			No	
Building Components Included		Substructure: SB 1: Deep foundation SB 2: Shallow Foundation SB 3: Slabs SB 4: Wall SB 5: Other  Superstructure: SP 1: Column SP 2: Beam SP 3: Slab/Deck SP 4: Vertical Bracing SP 5: Wall SP 6: Other	No	Checkbox for each variable
LCA Stages Included	EN 15978	A1-A3; A4-A5; B1-B5; C1-C4	No	Checkbox for each variable
Biogenic carbon included?		Yes; No	No	
Biogenic Carbon GWP		[kg CO2e]	No	Data input required only if "Yes" selected for "Biogenic carbon included?"