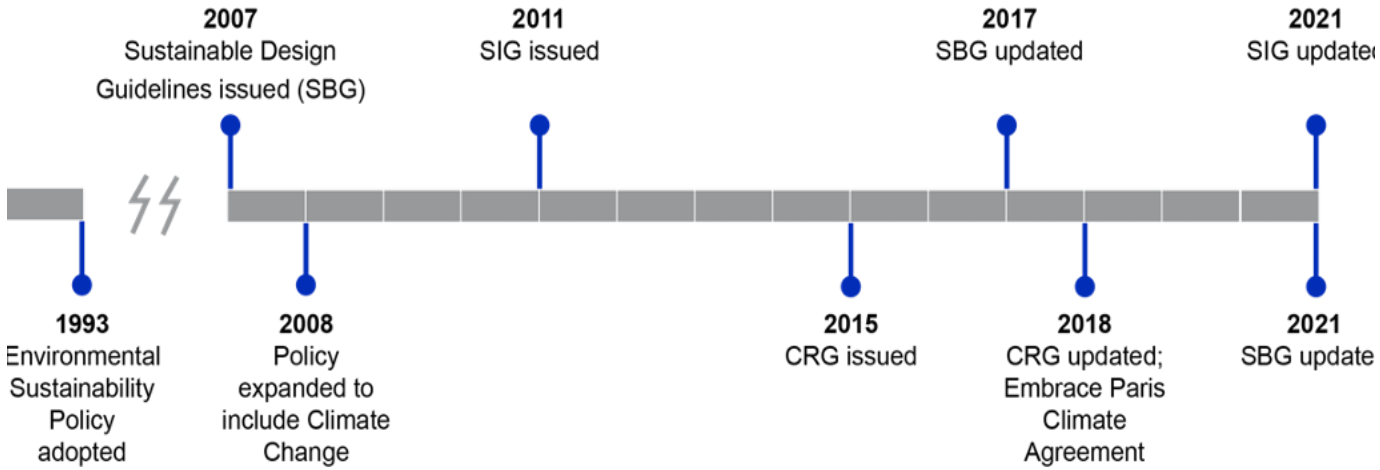
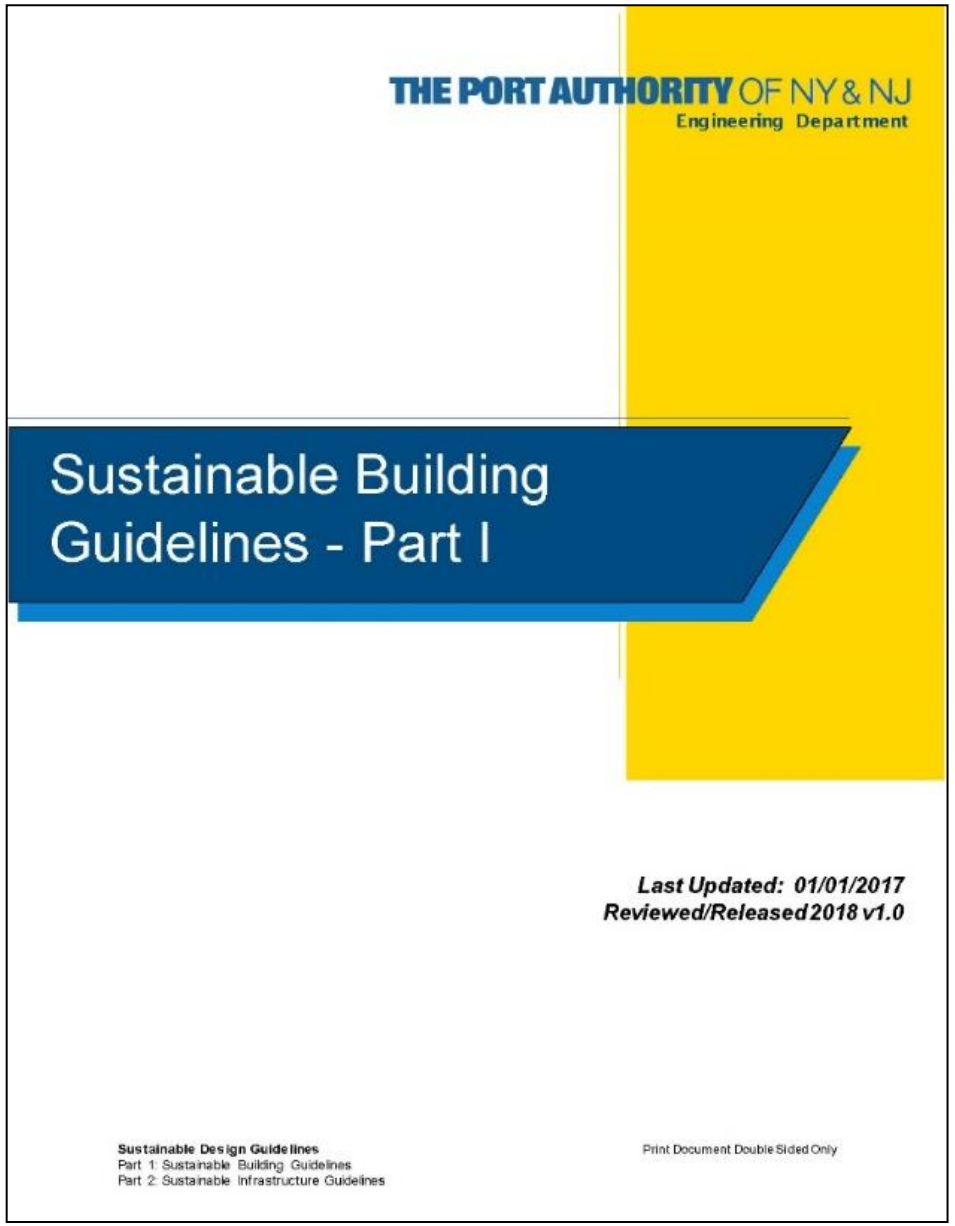
Sustainable Design TAA Process

Agenda

- Sustainable Design at PANYNJ – Timeline and overview
- Project Types and Required Achievement Levels
  - Project Type Definitions
- Sustainable Design Workflow
  - Accessing documentation forms - Sustainable Project Initiation Form (SPIF)
- Sustainable Design TAA Submission
  - Walk-through of exemplary Project. Completed Project Credit Checklist, LEED templates and supporting backup documentation.
  - Common challenges
  - Typical template completion
- Question and Answer

Sustainable Design at PANYNJ- Timeline & Overview





Project Type Definitions

New Construction	New construction refers to site preparation for, and construction of, entirely new structures and / or extensions to existing structures whether or not the site was previously occupied.
Reconstruction	A renovation of an existing building or buildings involving replacement or rehabilitation of four or more primary building systems (as defined in this document) as part of a unified design project or multiple, coordinated design projects, even if implementation is phased.
Interior Construction	Fit-out or remodel of an interior space inside the building envelope. Examples include restaurant renovation, office space remodel, airport terminal retail renovation, etc.
Small Projects & Primary Systems	Replacement or rehabilitation of fewer than four of the following building systems, regardless of phasing, duration or project cost: roofs, ceilings, window replacement, building envelope, plumbing, site work, HVAC, electrical / electronics and elevator / escalator. Small projects also include demolition.

Project Type Definitions

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Interior Construction	Fit-out or remodel of an interior space inside the building envelope. Examples include restaurant renovation, office space remodel, airport terminal retail renovation, etc.
Limited Scope Building Alteration	Replacement or rehabilitation of fewer than four of the following building systems (regardless of phasing, duration, or project cost): • Roofing /Ceiling • Window Replacement / Building Envelope • Plumbing • Sitework • Demolition • HVAC / Refrigeration Equipment / Controls • Electrical / Electronics • Elevators / Escalator
Limited Scope Interior Alteration	Replacement or rehabilitation of fewer than four of the following building systems (regardless of phasing, duration, or project cost): • Window Replacement • Plumbing • Demolition • HVAC / Refrigeration Equipment / Controls • Electrical / Lighting • Elevators / Escalators • Finishes, Paints, Furnishing

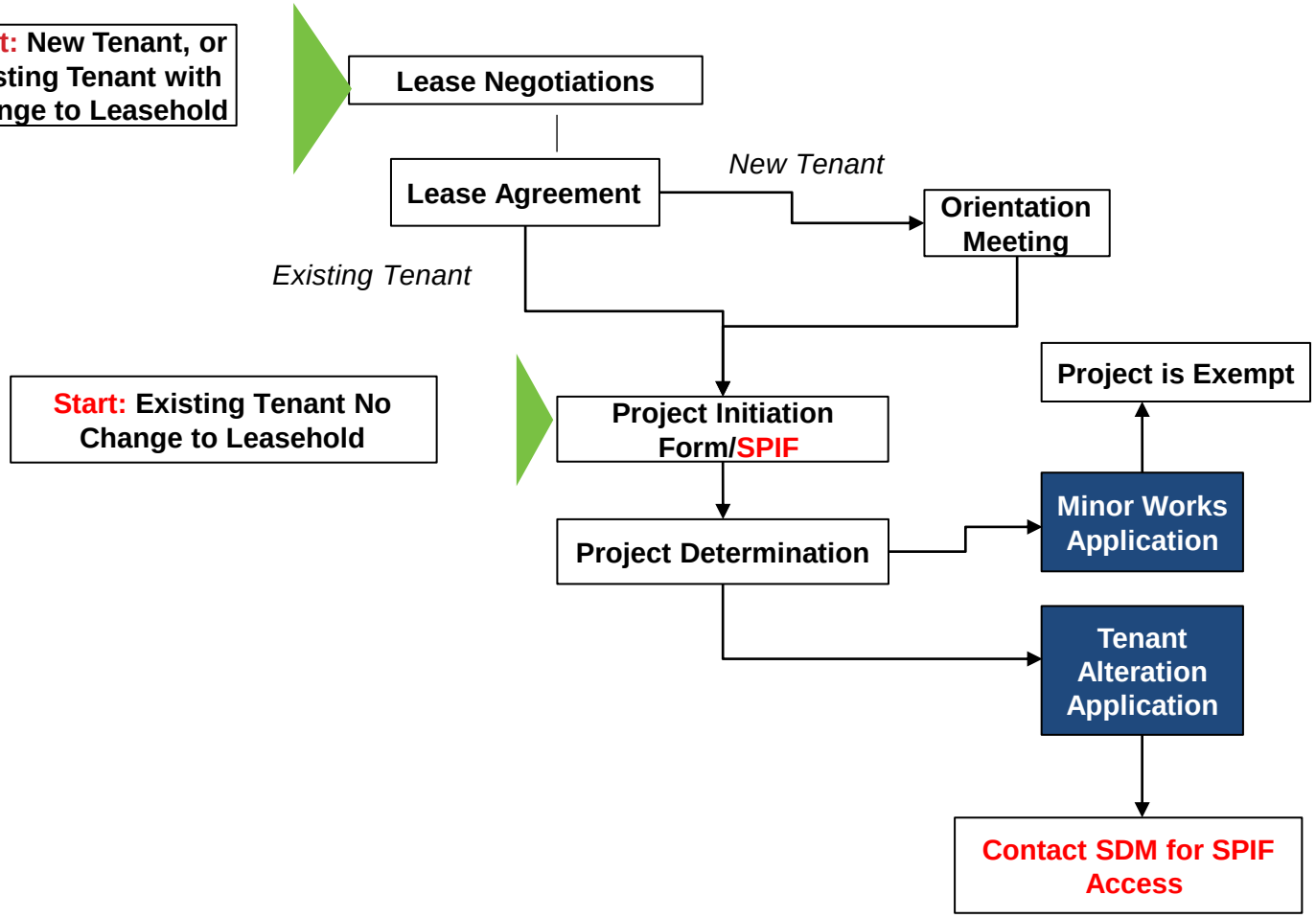
Project Types and Required Achievement Levels

TABLE 4.1 SBG PROJECT CATEGORIZATION FOR TAA PROJECTS			
Project Type	**LEED Rating System**	**LEED Level Required by Gross Square Footage (GSF)**	
		1,000 to 20,000	20,000 +
New Construction	**LEED BD+C[1,2]**	**LEED Certified**	**LEED Silver**
Reconstruction	**LEED BD+C[1]**	**LEED Certified**	**LEED Certified**
Interior Construction	**LEED ID+C**	**LEED Certified**	**LEED Certified**
Limited Scope Building Alternations	**LEED BD+C**	**100% of Applicable Credits from Limited Scope BD+C Checklist**	
Limited Scope Interior Alternations	**LEED ID+C**	**100% of Applicable Credits from Limited Scope ID+C Checklist**	

1. Note that for non-occupied buildings, IEQ credits are not valid unless approved by the SDM.

2. Project's larger than 5,000 sf are required to pursue the LEED v4/4.1 Building Life-cycle Impact Reduction credit, Option 4 and must document the LCA for transparency to support reporting of embodied carbon.

Sustainable Design Workflow – Design Submission



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PANYNJ Sustainable Project Initiation Form (SPIF) Revised: 4/4/2019

TENANT: Complete sections A & B and submit via email →	SUBMIT
QUESTIONS? Access the PA Sustainable Building Guidelines (SBG) →	ACCESS SBG

A. General Project Information

Facility	*LGA New Terminal B Head House*
TAA #	*GR-6032*
Project Title	*Mulberry Street HHL – 441/442*
Project Gross Square Footage	*3491*
Engineer / Architect of Record	*Guth DeConzo (EOR) / ENV Architects (AOR)*
Tenant Coordinator / Liaison	*Melissa Targett*
Construction Cost	*$1,600,000*
Estimated Project Schedule	*Construction: August (2019)- December (2019)*

B. Project Description

Applicable Project Type (Check One)	Suggested Rating System	
☐ New Construction	**LEED Building Design & Construction**	Check One
☐ Reconstruction	New Construction	☐
	Core and Shell	☐
	Retail	☐
	Warehouses and Distribution Centers	☐
	Hospitality	☐
☑ Interior Construction	**LEED Interior Design & Construction**	Check One
	Commercial Interiors	☐
	Retail	☑
	Hospitality	☐
☐ Small Projects & Primary Systems	**Small Projects & Primary Systems Table**	Select up to 3 Types
	Roofing	☐
	Windows	☐
	Building Envelope	☐
	Plumbing	☐
	Sitework, General Eng, Demolition	☐
	Refrigeration, Boiler, Rooftop Unit, Controls	☐
	Electric	☐
	Elevators / Escalators	☐

One submittal package will be submitted. Mulberry Street is a full restaurant design including mechanical, electrical, plumbing, and fire protection. The restaurant does include a full kitchen with an exhaust hood system.

Sustainable Design Manager Determination (FOR PA USE ONLY)

Project Categorization:	Interior Construction
Rating System:	LEED Interior Design & Construction, Retail
(Comment)	
Signature *Melissa Targett*	Date 6/12/19

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Completing The Sustainable Project Initiation Form

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PANYNJ Sustainable Project Initiation Form (SPIF) Revised: 4/4/2019

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B. Project Description

Applicable Project Type (Check One)	Suggested Rating System	
New Construction ☐	**LEED Building Design & Construction**	Check One
Reconstruction ☐	New Construction	☐
	Core and Shell	☐
	Retail	☐
	Warehouses and Distribution Centers	☐
	Hospitality	☐
Interior Construction ☑	**LEED Interior Design & Construction**	Check One
	Commercial Interiors	☐
	Retail	☑
	Hospitality	☐

Small Projects & Primary Systems ☐	**Small Projects & Primary Systems Table**	Select up to 3 Types
	Roofing	☐
	Windows	☐
	Building Envelope	☐
	Plumbing	☐
	Sitework, General Eng, Demolition	☐
	Refrigeration, Boiler, Rooftop Unit, Controls	☐
	Electric	☐
	Elevators / Escalators	☐

One submittal package will be submitted. Mulberry Street is a full restaurant design including mechanical, electrical, plumbing, and fire protection. The restaurant does include a full kitchen with an exhaust hood system.

Sustainable Design Manager Determination (FOR PA USE ONLY)

Project Categorization:	Interior Construction
Rating System:	LEED Interior Design & Construction, Retail
(Comment)	
Signature *Melissa Targett*	Date 6/12/19

1 of 1

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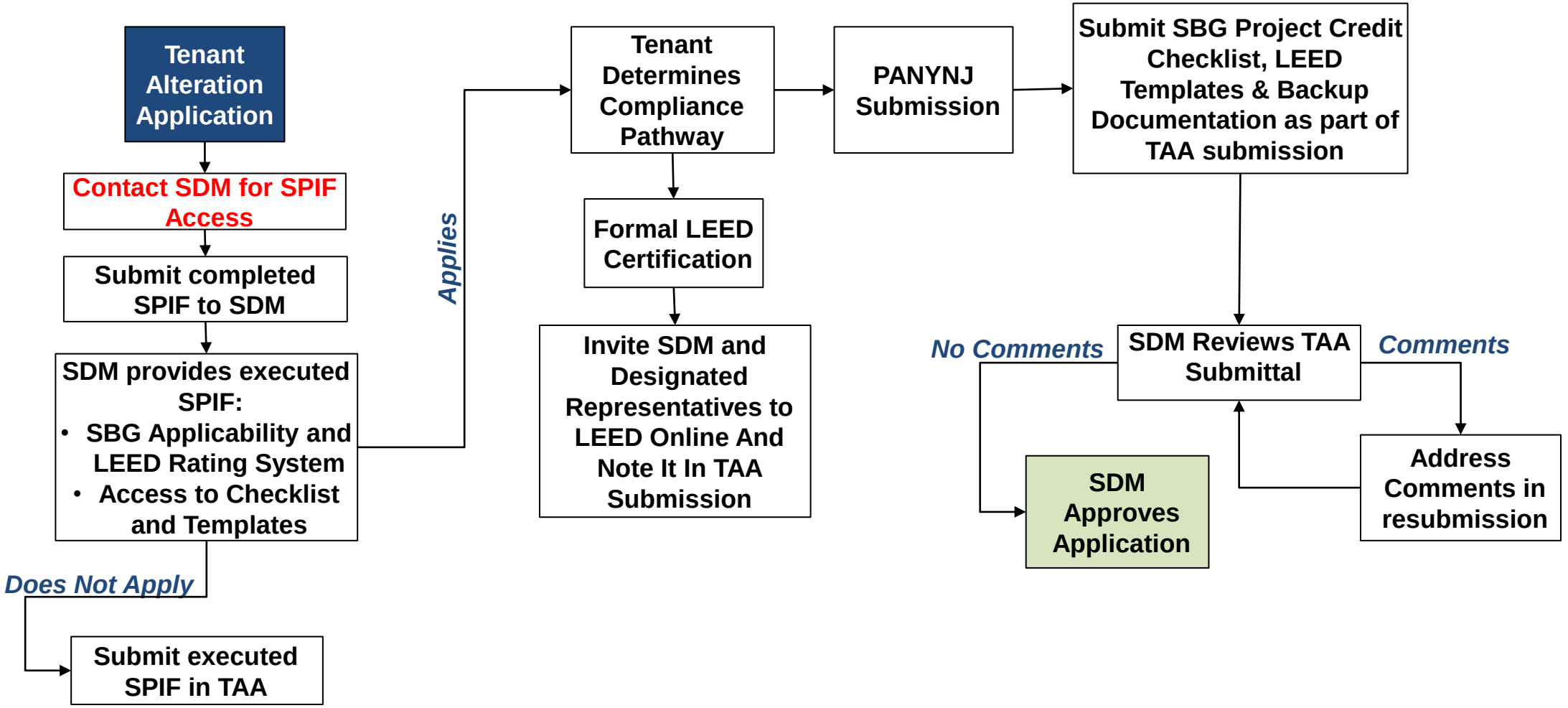
Sustainable Design Workflow – Design Submission



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Sustainable Design – Standard TAA Comments

EXEMPTION

Due to the scope of work, the tenant is not required to comply with the PA *Sustainable Building Guidelines*.

SUBMIT SUSTAINABLE PROJECT INITIATION FORM

This TAA package must include a PA *Sustainable Project Initiation Form* (SPIF), signed by the PA Sustainable Design Manager. The SPIF serves to establish and document the sustainable design criteria for your project, in accordance with the PA's *Sustainable Building Guidelines*, Section 4. To obtain the SPIF, contact the Sustainable Design Manager at sustainabledesignmanager@panynj.gov.

On receipt of your completed SPIF, the Sustainable Design Manager will either accept your determination and sign the SPIF or return the SPIF with questions. Signed SPIFs will be issued in pdf for your records, and include links to the appropriate PANYNJ *Sustainable Building Guidelines* Project Credit Checklist and documentation templates.

Your next TAA submission should include the signed SPIF, completed Project Credit Checklist, completed documentation templates, and all relevant supporting documentation.

SUBMIT SUSTAINABLE DESIGN DOCUMENTATION

We have received a signed Sustainable Project Initiation Form (SPIF), but require further information to evaluate your project:

- For projects not pursuing LEED certification through the United States Green Building Council (USGBC), please demonstrate compliance with the PA *Sustainable Building Guidelines*, Section 4, by providing a completed Project Credit Checklist, USGBC documentation templates, and all relevant supporting documentation. Please contact the PA Sustainable Design Manager at sustainabledesignmanager@panynj.gov for access to the appropriate Project Credit Checklist and templates.
- For projects pursuing LEED certification through USGBC, invite Melissa Targett (mtargett@panynj.gov) and Christian Soberanis (csoberanis@croxtonarc.com) to the LEED Online project web site, and provide the estimated timeline for the final documentation of the design and construction phases.

PROVIDE ACCESS TO LEED ONLINE

For projects pursuing LEED certification through USGBC, invite Melissa Targett (mtargett@panynj.gov) and Christian Soberanis (csoberanis@croxtonarc.com) to the LEED Online project web site, and provide the estimated timeline for the final documentation of the design and construction phases.

We note that this project has been registered with the USGBC (Project Number XXXXXXXXXX).

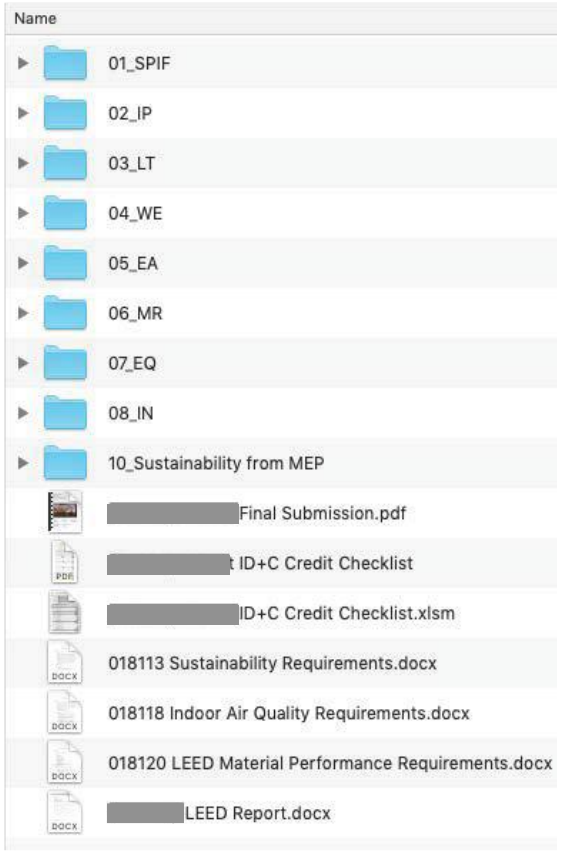
NO FURTHER COMMENTS

No further comments.

EXAMPLARY SUSTAINABLE DESIGN SUBMISSION

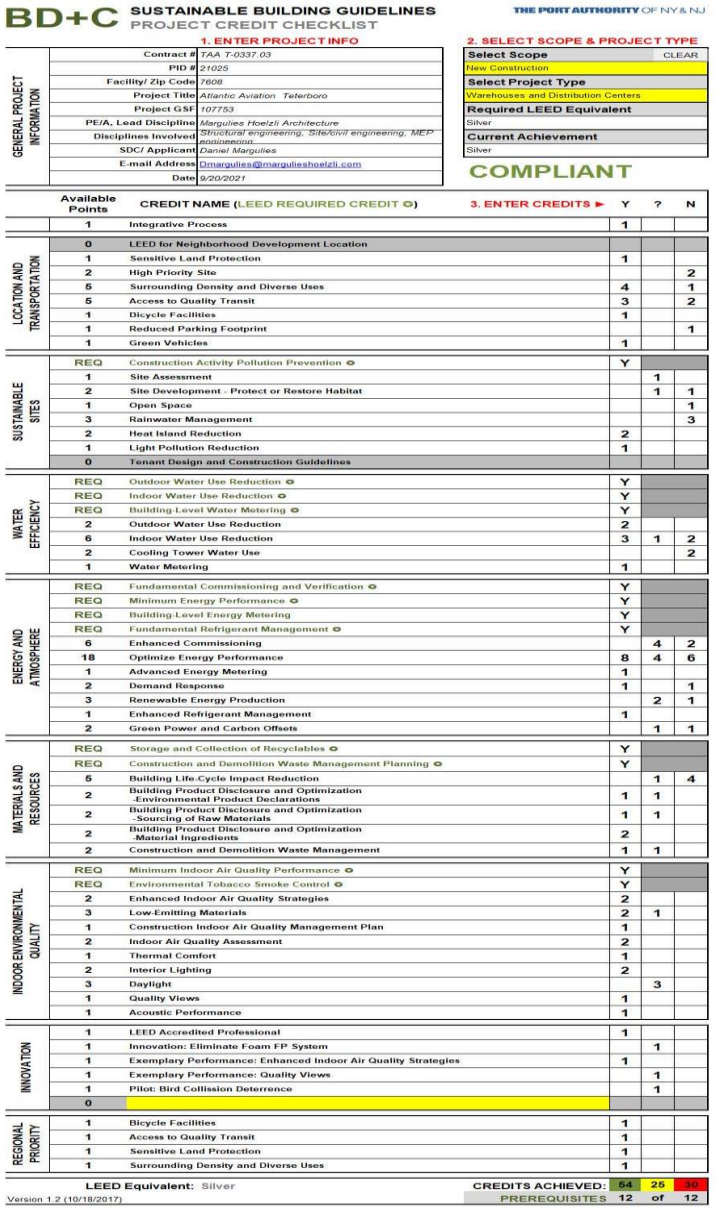
DIGITAL SUBMISSION FILE STRUCTURE

1. Include completed Credit Checklist and SPIF in main folder.
2. Create individual folders for every credit attempted.
3. Within each folder include the completed credit template and back up documentation.



Project Credit Checklist Instructions

1. Ensure that the checklist is for the project type shown in the SPIF.
2. Include Project Information that matches what is on the SPIF.
3. The sum of the credit points on the Yes (Y), Maybe (?) and No (N) columns must equal to the available points for each credit.



BD+C SUSTAINABLE BUILDING GUIDELINES
PROJECT CREDIT CHECKLIST
THE PORT AUTHORITY OF NY & NJ

1. ENTER PROJECT INFO

Contract #	TAA T-0337.03
PID #	21025
Facility/ Zip Code	7608
Project Title	Atlantic Aviation Teterboro
Project GSF	107753
PE/A, Lead Discipline	Margulies Hoelzli Architecture
Disciplines Involved	Structural engineering, Site/civil engineering, MEP engineering
SDC/ Applicant	Daniel Margulies
E-mail Address	Dmargulies@margulieshoelzli.com
Date	9/20/2021

2. SELECT SCOPE & PROJECT TYPE

Select Scope	CLEAR
New Construction	
Select Project Type	
Warehouses and Distribution Centers	
Required LEED Equivalent	
Silver	
Current Achievement	
Silver	

COMPLIANT

	Available Points	CREDIT NAME (LEED REQUIRED CREDIT ⊖) 3. ENTER CREDITS ►	Y	?	N
	1	Integrative Process	1		
LOCATION AND TRANSPORTATION	0	LEED for Neighborhood Development Location			
	1	Sensitive Land Protection	1		
	2	High Priority Site			2
	5	Surrounding Density and Diverse Uses	4		1
	5	Access to Quality Transit	3		2
	1	Bicycle Facilities	1		
	1	Reduced Parking Footprint			1
	1	Green Vehicles	1		
SUSTAINABLE SITES	REQ	Construction Activity Pollution Prevention ⊖	Y		
	1	Site Assessment		1	
	2	Site Development - Protect or Restore Habitat		1	1
	1	Open Space			1
	3	Rainwater Management			3
	2	Heat Island Reduction	2		
	1	Light Pollution Reduction	1		
	0	Tenant Design and Construction Guidelines			
WATER EFFICIENCY	REQ	Outdoor Water Use Reduction ⊖	Y		
	REQ	Indoor Water Use Reduction ⊖	Y		
	REQ	Building-Level Water Metering ⊖	Y		
	2	Outdoor Water Use Reduction	2		
	6	Indoor Water Use Reduction	3	1	2
	2	Cooling Tower Water Use			2
	1	Water Metering	1		
ENERGY AND ATMOSPHERE	REQ	Fundamental Commissioning and Verification ⊖	Y		
	REQ	Minimum Energy Performance ⊖	Y		
	REQ	Building-Level Energy Metering	Y		
	REQ	Fundamental Refrigerant Management ⊖	Y		
	6	Enhanced Commissioning		4	2
	18	Optimize Energy Performance	8	4	6
	1	Advanced Energy Metering	1		
	2	Demand Response	1		1
	3	Renewable Energy Production		2	1
	1	Enhanced Refrigerant Management	1		
	2	Green Power and Carbon Offsets		1	1
MATERIALS AND RESOURCES	REQ	Storage and Collection of Recyclables ⊖	Y		
	REQ	Construction and Demolition Waste Management Planning ⊖	Y		
	5	Building Life-Cycle Impact Reduction		1	4
	2	Building Product Disclosure and Optimization -Environmental Product Declarations	1	1	
	2	Building Product Disclosure and Optimization -Sourcing of Raw Materials	1	1	
	2	Building Product Disclosure and Optimization -Material Ingredients	2		
	2	Construction and Demolition Waste Management	1	1	
INDOOR ENVIRONMENTAL QUALITY	REQ	Minimum Indoor Air Quality Performance ⊖	Y		
	REQ	Environmental Tobacco Smoke Control ⊖	Y		
	2	Enhanced Indoor Air Quality Strategies	2		
	3	Low-Emitting Materials	2	1	
	1	Construction Indoor Air Quality Management Plan	1		
	2	Indoor Air Quality Assessment	2		
	1	Thermal Comfort	1		
	2	Interior Lighting	2		
	3	Daylight		3	
	1	Quality Views	1		
	1	Acoustic Performance	1		
INNOVATION	1	LEED Accredited Professional	1		
	1	Innovation: Eliminate Foam FP System		1	
	1	Exemplary Performance: Enhanced Indoor Air Quality Strategies	1		
	1	Exemplary Performance: Quality Views		1	
	1	Pilot: Bird Collision Deterrence		1	
	0				
REGIONAL PRIORITY	1	Bicycle Facilities	1		
	1	Access to Quality Transit	1		
	1	Sensitive Land Protection	1		
	1	Surrounding Density and Diverse Uses	1		

LEED Equivalent: Silver — CREDITS ACHIEVED: 64 | 25 | 39
Version 1.2 (10/18/2017) — PREREQUISITES 12 of 12

PORT AUTHORITY NY NJ
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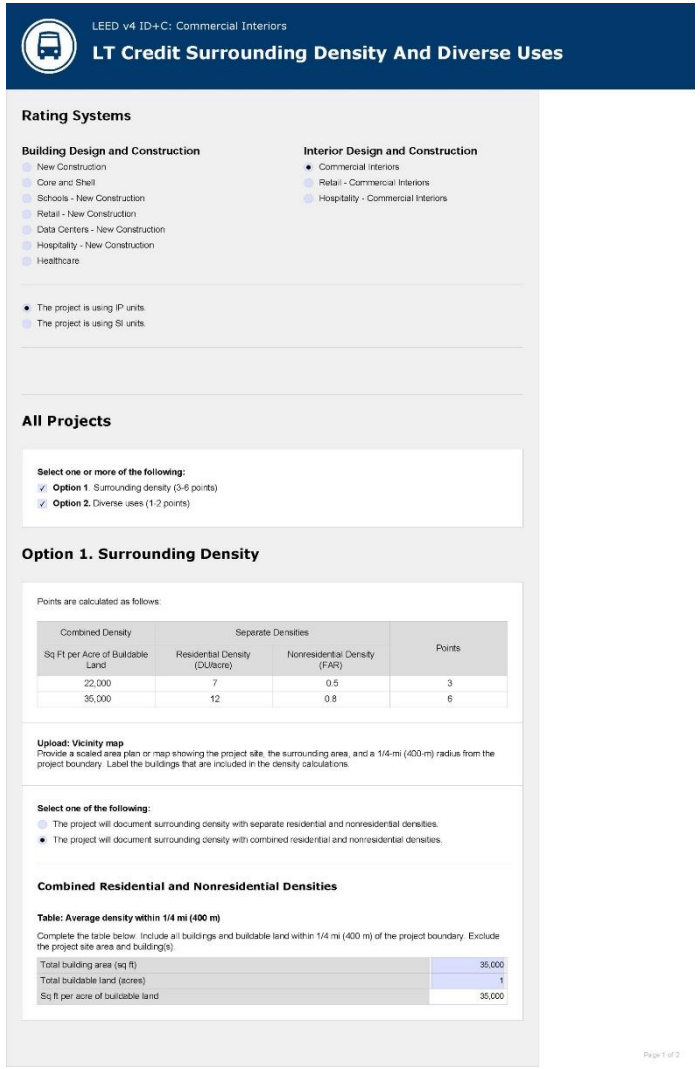
Typical Credit Template & Backup Documentation- Location and Transportation

LTc Surrounding Density and Diverse Uses

1. Submit completed credit template that identifies the rating system, credit point options being attempted and provides completed tables for the various credit options.
2. Provide back up documentation that has been either generated by the tenant or has been pre-generated for the facility by the Port Authority (contact SDM for availability).



LEED v4 ID+C: Commercial Interiors

LT Credit Surrounding Density And Diverse Uses

Rating Systems

Building Design and Construction
- New Construction
- Core and Shell
- Schools - New Construction
- Retail - New Construction
- Data Centers - New Construction
- Hospitality - New Construction
- Healthcare

Interior Design and Construction
- Commercial Interiors
- Retail - Commercial Interiors
- Hospitality - Commercial Interiors

- The project is using IP units.
- The project is using SI units.

All Projects

Select one or more of the following:
- **Option 1.** Surrounding density (3-6 points)
- **Option 2.** Diverse uses (1-2 points)

Option 1. Surrounding Density

Points are calculated as follows:

Combined Density	Separate Densities		Points
Sq Ft per Acre of Buildable Land	Residential Density (DU/acre)	Nonresidential Density (FAR)	
22,000	7	0.5	3
35,000	12	0.8	6

Upload: Vicinity map
Provide a scaled area plan or map showing the project site, the surrounding area, and a 1/4-mi (400-m) radius from the project boundary. Label the buildings that are included in the density calculations.

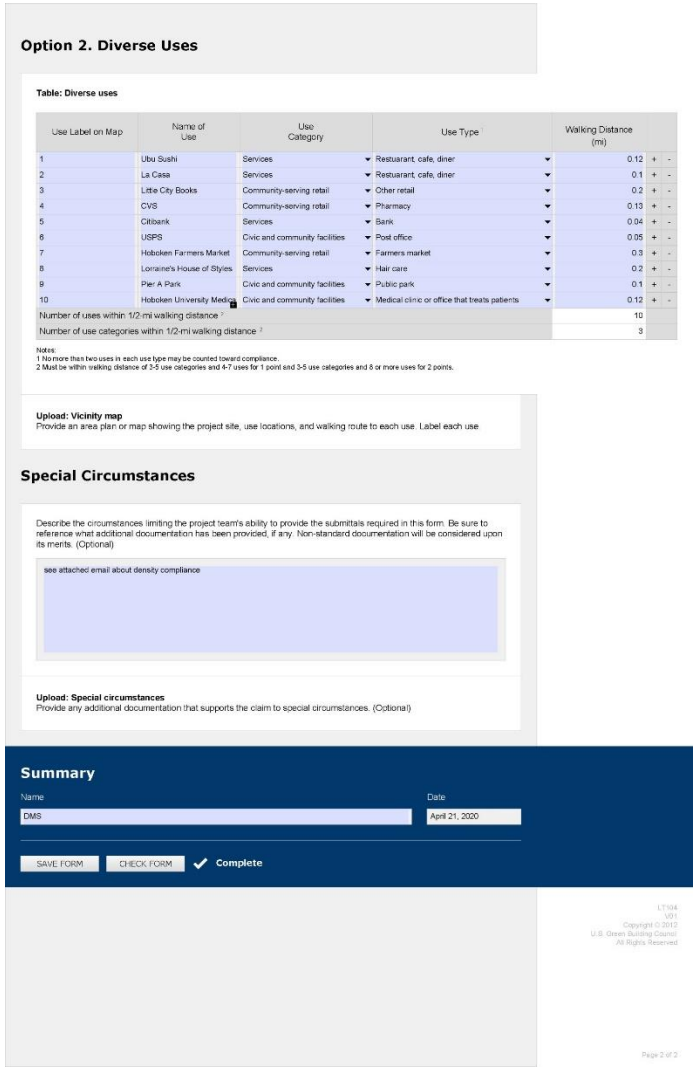
Select one of the following:
- The project will document surrounding density with separate residential and nonresidential densities.
- The project will document surrounding density with combined residential and nonresidential densities.

Combined Residential and Nonresidential Densities

Table: Average density within 1/4 mi (400 m)

Complete the table below. Include all buildings and buildable land within 1/4 mi (400 m) of the project boundary. Exclude the project site area and building(s).

Total building area (sq ft)	35,000
Total buildable land (acres)	1
Sq ft per acre of buildable land	35,000



Option 2. Diverse Uses

Table: Diverse uses

Use Label on Map	Name of Use	Use Category	Use Type	Walking Distance (mi)
1	Ubu Sushi	Services	Restuarant, cafe, diner	0.12
2	La Casa	Services	Restuarant, cafe, diner	0.1
3	Little City Books	Community-serving retail	Other retail	0.2
4	CVS	Community-serving retail	Pharmacy	0.13
5	Citibank	Services	Bank	0.04
6	USPS	Civic and community facilities	Post office	0.05
7	Hoboken Farmers Market	Community-serving retail	Farmers market	0.3
8	Lorraine's House of Styles	Services	Hair care	0.2
9	Pier A Park	Civic and community facilities	Public park	0.1
10	Hoboken University Medica	Civic and community facilities	Medical clinic or office that treats patients	0.12
Number of uses within 1/2-mi walking distance [1]				10
Number of use categories within 1/2-mi walking distance [2]				3

Notes:
1 No more than two uses in each use type may be counted toward compliance.
2 Must be within walking distance of 3-5 use categories and 4-7 uses for 1 point and 3-5 use categories and 8 or more uses for 2 points.

Upload: Vicinity map
Provide an area plan or map showing the project site, use locations, and walking route to each use. Label each use.

Special Circumstances

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits. (Optional)

see attached email about density compliance

Upload: Special circumstances
Provide any additional documentation that supports the claim to special circumstances. (Optional)

Summary

Name: DMS

Date: April 21, 2020

SAVE FORM | CHECK FORM | Complete

LT104
V01

Page 1 of 2

Page 2 of 2

PORT AUTHORITY NY NJ

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Typical Credit Template And Backup Documentation- Location and Transportation

NEW YORK, NY

LOCATION AND TRANSPORTATION
SURROUNDING DENSITY AND DIVERSE USES

07.10.2018

Located between [redacted] the project site is a short distance from Highbridge and Fort Tryon Park. Strategically located between Hudson and Washington Heights, the surrounding density far exceeds the threshold of 35,000 sf per acre of buildable land. Additionally, the civic/community and services neighborhood of Hudson and Washington Heights offers access to a plethora of diverse uses across all five categories.

SURROUNDING DENSITY - **6 Points Achieved**

The total area within a 1/4-mile radius circle is approximately 125.7 acres. Assuming that 80% of the land is "buildable land,' the total area of applicable land for this credit is approximately 100.6 acres. The threshold to achieve 6 points in this credit is a combined density (both residential and nonresidential) of 35,000 sf/acre of buildable land. This equates to a required area of 3,519,000 sf.

AREA OF 1/4-MILE CIRCLE				SF/ACRE		CREDIT THRESHOLD
$(\pi^*(5{,}280ft/4)^2$	x	0.8	+	43,560 sf/acre	x	35,000 sf/acre

3,519,000 sf.

A	111 Wadsworth Ave:	503,310	F	801 181st St:	72,240	K	116 Pinehurst Ave:	540,000
B	1360 St Nicholas Ave:	517,910	G	455 Washington Ave:	101,100	L	371 Ft Washington Ave:	81,804
C	120 Cabrini Blvd:	890,134	H	306 Ft Washington Ave:	128,343	M	359 Ft Washington Ave:	81,804
D	829 W 181st St:	72,240	I	4140 Broadway:	113,373	N	1301 St Nicholas:	85,482
E	92 Pinehurst Ave:	84,037	J	330 Haven Ave:	210,468	O	24-42 Bennett Ave:	75,522

Total: 3,557,767 sf

DIVERSE USES - **2 Points Achieved**

The threshold to achieve 2 points in this credit is a 1/2-mile walking distance to eight or more existing and pubicly available diverse uses.

1. Citi Bank (Services, Bank) - 0.13 mile
2. Tampopo Ramen (Services, Restaurant) - 0.18 mile
3. Envy Hair Salon (Services, Hair Care) - 0.21 mile
4. Happy Laundry (Services, Laundry) - 0.20 mile
5. St. Jesus Pharmacy (Community-Serving Retail, Pharmacy) - 0.08 mile
6. Modell's Sporting Goods (Community-Serving Retail, Other Retail) - 0.22 mile
7. J. Hood Wright Park (Civic & Community Facilities, Public Park) - 0.20 mile
8. Holyrood Episcopal Church (Civic & Community Facilities, Place of Worship) - 0.04 mile

Project Site

Typical Credit Template And Backup Documentation- Location and Transportation

[redacted]
NEW YORK, NY

LOCATION AND TRANSPORTATION
ACCESS TO QUALITY TRANSIT
07.10.2018

Located between [redacted] the project site is a short distance two subway stations and five bus stops: A: 175th Street - Ft Washington Ave; B: 1181st Street - St Nicholas Ave; C: Ft Wahsington Ave / W 177th St; D: Ft Washington / W 181st St; E: Broadway / W 181st St; F: W 179th St / St Nicholas Ave; and G: Broadway / W 174th St. These 2 subway stations and 5 bus stops provide access to 2 different lines and 5 bus routes. The strategic location of the George Washinton Bridge Bus Terminal provides its employees and visitors with a great number of transportation choices--far exceeding the threshold for 'Exemplary Performance.'

ACCESS TO QUALITY TRANSIT

7 Points + 1 Point for Exemplary Performance

Located within a 1/2-mile walking distance of two subway stations and a 1/4-mile of 5 bus stops

- A A Train- 175th Street - Ft Washington Ave
- B 1 Train - 181st Street - St Nicholas Ave
- C M4 Bus - Ft Wahsington Ave / W 177th St
- D M98 Bus - Ft Washington / W 181st St
- E M100 Bus - Broadway / W 181st St
- F M3 Bus - W 179th St / St Nicholas Ave
- G BX7 Bus - Broadway / W 174th St
- Project Site

[redacted] provides its employees and visitors with a great number of transportation choices, greatly reducing motor vehicle use. The threshold to achieve 7 points in this credit is a minimum of 360 weekday trips and 216 weekend trips. In order to achieve 'Exemplary Performance,' these thresholds must be doubled (i.e., 720 weekday trips and 432 weekend trips).

At the seven previously listed stops (A-G), there is access to two subway lines and six bus lines:

- Eighth Avenue Line - A
- Seventh Avenue Line - 1
- M4 Line
- M98 Line
- BX7 Line
- M100 Line
- M3 Line

Based on the schedule provided by the MTA (Available at: http://www.mta.info/schedules), each subway line provides approximately 160 trips per day during the week and approximately 95 trips per day during the weekend. As noted above, there are 2 subway line routes that make stops at these two stations, providing access to different areas of Manhattan, the Bronx, Queens, and Brooklyn. In total, these subway lines provide approximately 320 trips (in one direction) per day during the week and approximately 190 trips (in one direction) per day during the weekend.

Each bus line provides varying trips per day during the week and weekend. In total, these bus lines provide approximately 490 trips (in one direction) per day during the week and approximately 350 trips (in one direction) per day during the weekend.

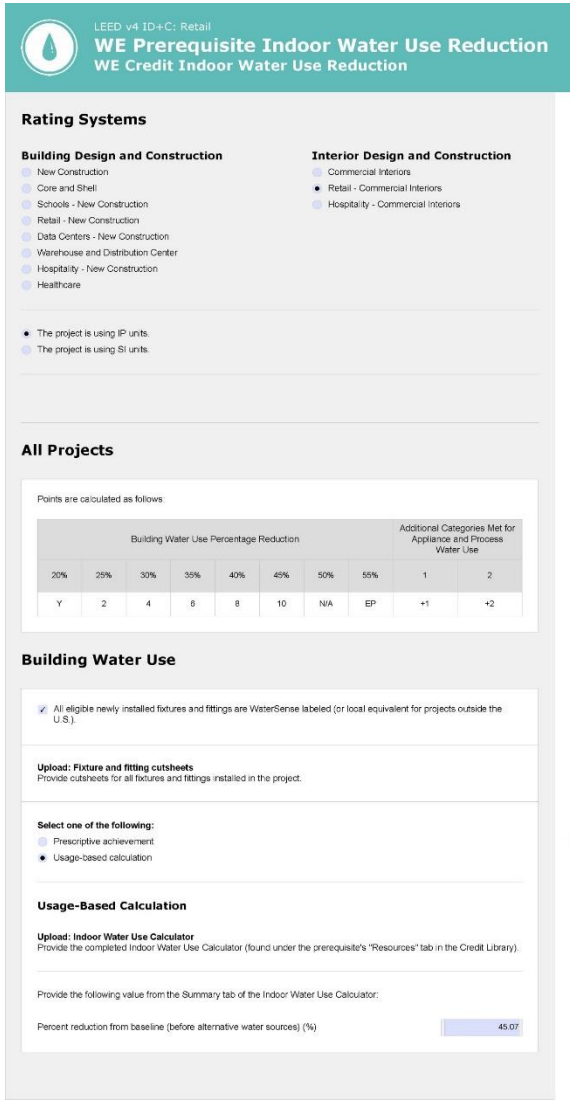
In total, the **subway and bus lines** provide approximately **810 trips** (in one direction) per day during the week and approximately **540 trips** (in one direction) per day during the weekend.

Typical Credit Template & Backup Documentation- Water Efficiency

WEc Indoor Water Use Reduction

1. Provide completed template that identifies rating system , compliance strategy, and water use calculation results.

2. Provide backup documentation consisting of:
   a) Completed water use calculator
   b) Cutsheets of plumbing fixtures that confirm calculation inputs.



LEED v4 ID+C: Retail

WE Prerequisite Indoor Water Use Reduction

WE Credit Indoor Water Use Reduction

Rating Systems

Building Design and Construction

- New Construction
- Core and Shell
- Schools - New Construction
- Retail - New Construction
- Data Centers - New Construction
- Warehouse and Distribution Center
- Hospitality - New Construction
- Healthcare

Interior Design and Construction

- Commercial Interiors
- Retail - Commercial Interiors
- Hospitality - Commercial Interiors

- The project is using IP units.
- The project is using SI units.

All Projects

Points are calculated as follows:

Building Water Use Percentage Reduction								Additional Categories Met for Appliance and Process Water Use	
20%	25%	30%	35%	40%	45%	50%	55%	1	2
Y	2	4	6	8	10	N/A	EP	+1	+2

Building Water Use

- ✓ All eligible newly installed fixtures and fittings are WaterSense labeled (or local equivalent for projects outside the U.S.).

Upload: Fixture and fitting cutsheets
Provide cutsheets for all fixtures and fittings installed in the project.

Select one of the following:

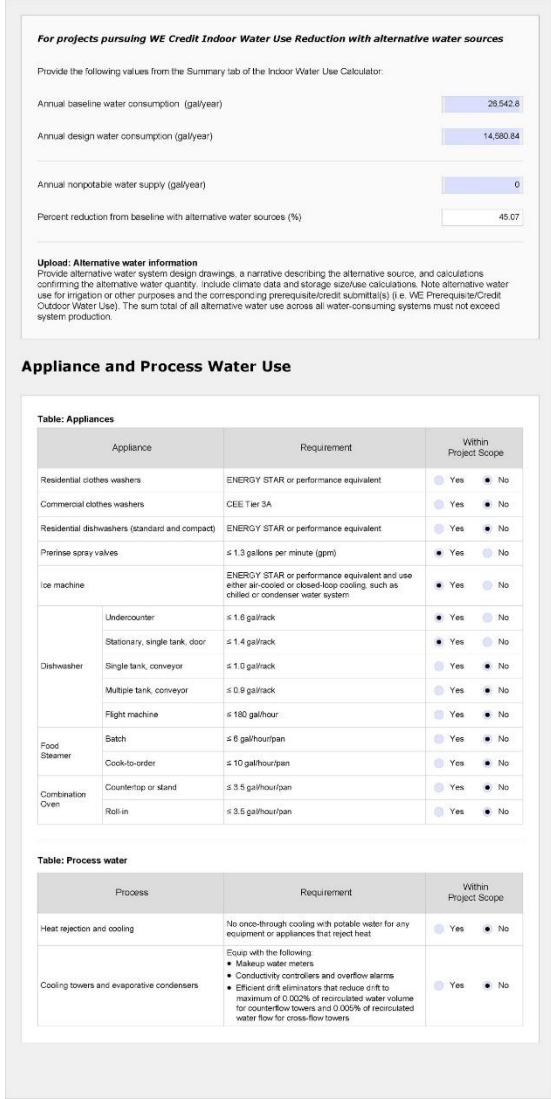
- Prescriptive achievement
- Usage-based calculation

Usage-Based Calculation

Upload: Indoor Water Use Calculator
Provide the completed Indoor Water Use Calculator (found under the prerequisite's "Resources" tab in the Credit Library).

Provide the following value from the Summary tab of the Indoor Water Use Calculator:

Percent reduction from baseline (before alternative water sources) (%) 45.07



For projects pursuing WE Credit Indoor Water Use Reduction with alternative water sources

Provide the following values from the Summary tab of the Indoor Water Use Calculator:

Annual baseline water consumption (gal/year) 26,542.8

Annual design water consumption (gal/year) 14,580.84

Annual nonpotable water supply (gal/year) 0

Percent reduction from baseline with alternative water sources (%) 45.07

Upload: Alternative water information
Provide alternative water system design drawings, a narrative describing the alternative source, and calculations confirming the alternative water quantity. Include climate data and storage size/use calculations. Note alternative water use for irrigation or other purposes and the corresponding prerequisite/credit submittal(s) (i.e. WE Prerequisite/Credit Outdoor Water Use). The sum total of all alternative water use across all water-consuming systems must not exceed system production.

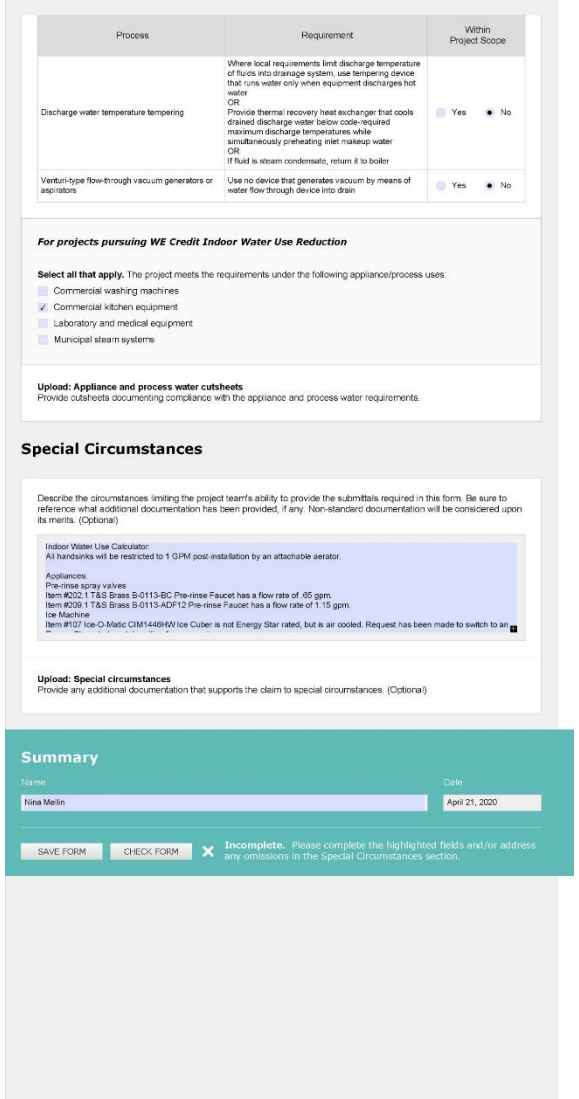
Appliance and Process Water Use

Table: Appliances

Appliance		Requirement	Within Project Scope
Residential clothes washers		ENERGY STAR or performance equivalent	Yes / ● No
Commercial clothes washers		CEE Tier 3A	Yes / ● No
Residential dishwashers (standard and compact)		ENERGY STAR or performance equivalent	Yes / ● No
Prerinse spray valves		≤ 1.3 gallons per minute (gpm)	● Yes / No
Ice machine		ENERGY STAR or performance equivalent and use either air-cooled or closed-loop cooling, such as chilled or condenser water system	● Yes / No
Dishwasher	Undercounter	≤ 1.6 gal/rack	● Yes / No
	Stationary, single tank, door	≤ 1.4 gal/rack	● Yes / No
	Single tank, conveyor	≤ 1.0 gal/rack	Yes / ● No
	Multiple tank, conveyor	≤ 0.9 gal/rack	Yes / ● No
	Flight machine	≤ 180 gal/hour	Yes / ● No
Food Steamer	Batch	≤ 6 gal/hour/pan	Yes / ● No
	Cook-to-order	≤ 10 gal/hour/pan	Yes / ● No
Combination Oven	Countertop or stand	≤ 3.5 gal/hour/pan	Yes / ● No
	Roll-in	≤ 3.5 gal/hour/pan	Yes / ● No

Table: Process water

Process	Requirement	Within Project Scope
Heat rejection and cooling	No once-through cooling with potable water for any equipment or appliances that reject heat	Yes / ● No
Cooling towers and evaporative condensers	Equip with the following: • Makeup water meters • Conductivity controllers and overflow alarms • Efficient drift eliminators that reduce drift to maximum of 0.002% of recirculated water volume for counterflow towers and 0.005% of recirculated water flow for cross-flow towers	Yes / ● No



Process	Requirement	Within Project Scope
Discharge water temperature tempering	Where local requirements limit discharge temperature of fluids into drainage system, use tempering device that runs water only when equipment discharges hot water OR Provide thermal recovery heat exchanger that cools drained discharge water below code-required maximum discharge temperatures while simultaneously preheating inlet makeup water OR If fluid is steam condensate, return it to boiler	Yes / ● No
Venturi-type flow-through vacuum generators or aspirators	Use no device that generates vacuum by means of water flow through device into drain	Yes / ● No

For projects pursuing WE Credit Indoor Water Use Reduction

Select all that apply. The project meets the requirements under the following appliance/process uses:

- Commercial washing machines
- ✓ Commercial kitchen equipment
- Laboratory and medical equipment
- Municipal steam systems

Upload: Appliance and process water cutsheets
Provide cutsheets documenting compliance with the appliance and process water requirements.

Special Circumstances

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits. (Optional)

Indoor Water Use Calculator:
All handsinks will be restricted to 1 GPM post-installation by an attachable aerator.

Appliances:
Pre-rinse spray valves
Item #202.1 T&S Brass B-0113-BC Pre-rinse Faucet has a flow rate of .65 gpm.
Item #209.1 T&S Brass B-0113-ADF12 Pre-rinse Faucet has a flow rate of 1.15 gpm.
Ice Machine
Item #107 Ice-O-Matic CIM1446HW Ice Cuber is not Energy Star rated, but is air cooled. Request has been made to switch to an

Upload: Special circumstances
Provide any additional documentation that supports the claim to special circumstances. (Optional)

Summary

Name: Nina Mellin Date: April 21, 2020

SAVE FORM CHECK FORM ✕ **Incomplete.** Please complete the highlighted fields and/or address any omissions in the Special Circumstances section.

PORT AUTHORITY NY NJ

AIR LAND RAIL SEA

Typical Credit Template And Backup Documentation: Water Efficiency

Mulberry Street

Group name	[redacted]

Table: Project Information

Enter project occupancy information. This information should be consistent with occupancy numbers used in other LEED credits.

☐ **Non-default gender mix**

The default gender mix is half male and half female. If necessary, modify the Male and Female occupant type columns for non-default gender mix if the project is specifically designed for an alternative gender ratio or the project is expected to have alternative gender usage rates for the life of the building.

Occupancy Type	Employees (FTE)	Visitors	Retail Customers	Students (K-12)	Residential	Other *(specify)*	Gender Ratio (%)
Total	9		116				100%
Male	5	0	58	0	0	0	50%
Female	4	0	58	0	0	0	50%

Determine the percent of males expected to use urinals (enter 100% if all male restrooms have urinals, 0% if the project contains no urinals, etc)

Percent of males expected to use restrooms with urinals	100%

Enter the number of days the project is accessible to employees or FTE.

Annual days of operation	365

For projects with dual-flush toilets

Enter the resulting flush rate into the design case flush rate section below.

Low flush (gpf)	
Full flush (gpf)	
LEED weighted average flush rate (gpf)	0.00

Table: Flush Fixtures

1. Indicate the **Fixture ID** that matches the information provided in the plumbing schedule.
2. Select the **Fixture Family** and **Fixture Type** installed on the project.
3. Enter the **Design Flush Rate** identified by the manufacturer - for dual flush toilets, use the dual flush calculator to determine average flush rate.
4. Enter **Percent of Occupants** with access to the fixture. If the fixture is installed in all restrooms, use 100%.
5. If necessary, modify the **Total Uses per Day** column for non-default uses.

Fixture Information			Flush Rate		Percent of Occupants (%)	Uses per Day						Total Daily Uses		Total Daily Water Use	
Fixture ID	Fixture Family	Fixture Type	Baseline Flush Rate (gpf)	Design Flush Rate (gpf)		Employees (FTE)	Visitors	Retail Customers	Students (K-12)	Residential	Other	Default	Non-default (Optional)	Baseline (gallons)	Design (gallons)
Base Building	Urinal	Low-Flow Urinal	1.00	0.125	50	2.0	0.0	0.10	0.0	0.0		15.8		7.90	0.9875
Base Building	Toilet (male)	Dual-Flush Water Closet	1.60	1.1	50	1.0	0.0	0.10	0.0	0.0		10.8		8.64	5.94
Base Building	Toilet (female)	Dual-Flush Water Closet	1.60	1.1	50	3.0	0.0	0.20	0.0	0.0		23.6		18.88	12.98
						0.0	0.0	0.00	0.0	0.0		0.0		0.00	0
						0.0	0.0	0.00	0.0	0.0		0.0		0.00	0
Baseline case annual flush volume (gallons/year)					12,928.30										
Design case annual flush volume (gallons/year)					7,266.24										

Table: Flow Fixtures

1. Indicate the **Fixture ID** that matches the information provided in the plumbing schedule.
2. Select the **Fixture Type** installed on the project.
3. If necessary, modify the **Duration** column for non-default values.
4. Enter the **Design Flow Rate** identified by the manufacturer.
5. Enter **Percent of Occupants** with access to the fixture. If the fixture is installed in all restrooms, use 100%.
6. If necessary, modify the **Total Uses per Day** column for non-default uses.

Fixture Information		Duration		Flow Rate		Percent of Occupants (%)	Uses per Day						Total Daily Uses		Total Daily Water Use	
Fixture ID	Fixture Type	Default (sec)	Non-default (sec) (Optional)	Baseline Flow Rate (gpm)	Design Flow Rate (gpm)		Employees (FTE)	Visitors	Retail Customers	Students (K-12)	Residential	Other	Default	Non-default (Optional)	Baseline (gallons)	Design (gallons)
Base Building	Public lavatory (restroom) faucet	30		0.50	0.35	100	3.0	0.0	0.2	0.0	0.0		50.2		12.55	8.79
201	Kitchen faucet	15		2.20	1	100	1.0	0.0	0.0	0.0	0.0		9.0		4.95	2.25
301	Kitchen faucet	15		2.20	1	100	1.0	0.0	0.0	0.0	0.0		9.0		4.95	2.25
308	Kitchen faucet	15		2.20	1	100	1.0	0.0	0.0	0.0	0.0		9.0		4.95	2.25
409	Kitchen faucet	15		2.20	1	100	1.0	0.0	0.0	0.0	0.0		9.0		4.95	2.25
301	Kitchen faucet	15		2.20	1	100	1.0	0.0	0.0	0.0	0.0		9.0		4.95	2.25
Baseline case annual flow volume (gallons/year)						13,614.50										
Design case annual flow volume (gallons/year)						7,314.60										

Summary for Design and Construction Rating Systems

Note: All information on this tab is READ-ONLY. To edit, see the previous tab(s).

Group Name	Baseline Case (gallons/year)			Design Case (gallons/year)		
	Annual Flush Volume	Annual Flow Volume	Annual Consumption	Annual Flush Volume	Annual Flow Volume	Annual Consumption
[redacted]	12,928.30	13,614.50	26,542.80	7,266.24	7,314.60	14,580.84

Annual baseline water consumption (gallons/year)	26,542.80
Annual design water consumption (gallons/year)	14,580.84
Percent water use reduction (%)	**45.07%**

TOTO® **TL221SD**

Connelly™ Single-Handle Lavatory Faucet

FEATURES

- WaterSense certified low-flow 1.5 gpm (5.7 lpm) faucet
- Lever handle
- Brass construction
- Ceramic disk mixing cartridge
- Metal pop-up drain assembly included

COLORS/FINISHES

- #CP Polished Chrome
- #BN Brushed Nickel
- #PN Polished Nickel

CODES/STANDARDS

- Complies with federal and state statutes as lead-free
- Meets or exceeds ASME A112.18.1/CSA B125.1, NSF 61-9
- Certifications: IAPMO(cUPC), EPA WaterSense, State of Massachusetts and others
- Code Compliance: UPC, IPC, NSPC, NPC Canada, and others
- Legislative compliance: California AB1953, Vermont S.152 & Maryland HB. 372, California Green Building Code, City of Los Angeles Water Efficiency Ordinance
- Contains a weighted average of 0.25% lead or less
- ADA compliant

PRODUCT SPECIFICATION

The single-handle lavatory faucet shall have a maximum flow rate of 1.5 gpm (5.7 lpm). Product shall have lever handle. Product shall have a pivoting aerator. Product shall have a brass construction. Product shall have a ceramic disk mixing cartridge. Product shall include metal pop-up drain assembly. Product shall be **TOTO Model TL221SD#____.**

TOTO® **CWT426CMFG**

AP Wall-Hung Toilet, 1.28 GPF & 0.9 GPF

FEATURES

AP Bowl

- DYNAMAX TORNADO FLUSH® system, high efficiency (1.28 GPF/0.9 GPF)
- CEFIONTECT® ceramic glaze - prevents debris, mold from sticking to ceramic surfaces
- Universal Height
- Elongated front bowl

DuoFit In-Wall Tank

- Dual flushing system, high-efficiency (1.28 GPF/4.8 LPF & 0.9 GPF/3.4 LPF) Avg. flush 1.03 GPF
- Adjustable 15"-19" mounting height
- Saves up to 9" of floor space compared to standard floor-mounted toilet
- Supports up to 880lbs
- Commercial 2" x 6" or optional residential installation with 2" x 4" wall studs with waste outlet kit
- Copper supply line

Push Plate

- YT930 Basic Round Push Plate #WH White Matte or #MS Matte Silver

(Seat sold separately)

DYNAMAX TORNADO FLUSH
Skirted Design
CEFIONTECT

KIT COMPONENTS

- CT426CFG#01 AP Wall-Hung Toilet
- WT172M In-Wall Tank System (Copper Pipe)
- YT930 Basic Round Push Plate #WH White Matte or #MS Matte Silver

Available Options

- YT920#WH - White Matte Basic Square Push Plate
- YT920#MS - Matte Silver Basic Square Push Plate
- YT970#SS - Stainless Steel Wall Square Push Plate
- YT980#SS - Stainless Steel Wall Round Push Plate
- SS114 - SoftClose Seat

COLORS/FINISHES

- Standard #01 Cotton

CODES/STANDARDS

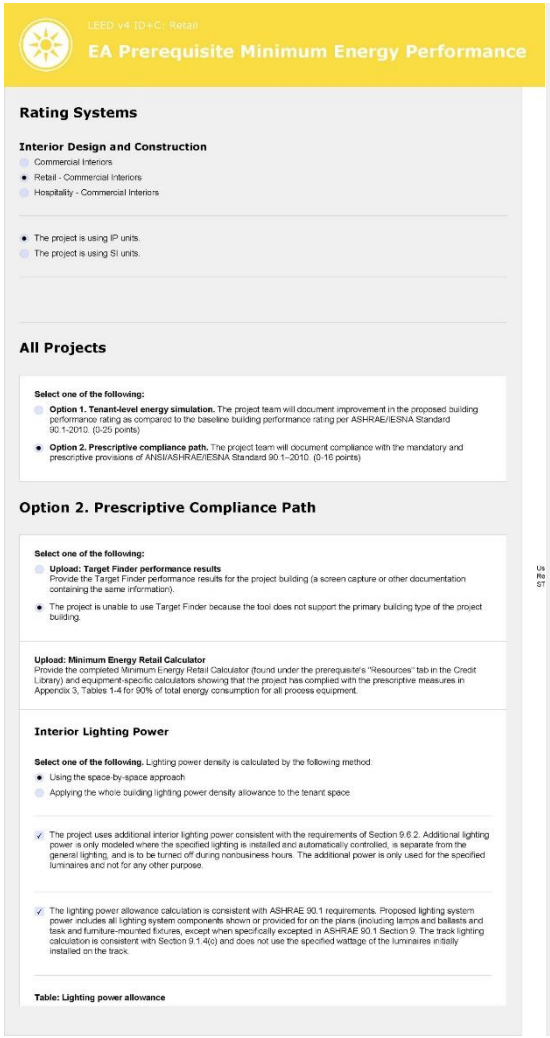
- Meets or exceeds:
  -Bowl: ASME A112.19.2/CSA B45.1, ASME A112.19.14
  -Carrier System: ASME A112.6.2
  -Tank Trim: IAPMO PS50, CSA B125.3, ASSE1002
- Certifications: IAPMO (cUPC), EPA WaterSense State of Massachusetts, City of Los Angeles and others
- Legislative compliance: California AB715, California Green Building Code, City of Los Angeles Water Efficiency Ordinance
- Code Compliance: UPC, IPC, NSPC, NPC Canada, and others
- Complies with CA Prop 65 warning requirements

Typical Credit Template & Backup Documentation- Energy and Atmosphere

EAc Optimize Energy Performance

1. Provide completed template that identifies compliance Strategy. All interior projects should choose prescriptive method and provide.
   a) Lighting Power Density
   b) Percentage of Energy Star Appliances
   c) Percentage of spaces with HVAC controls.
   d) AEDG compliance
   e) Percentage of spaces with Lighting Controls.

2. Provide Lighting Power Density calcs and lighting cutsheets.



LEED v4 ID+C: Retail

EA Prerequisite Minimum Energy Performance

Rating Systems

Interior Design and Construction

- Commercial Interiors
- Retail - Commercial Interiors
- Hospitality - Commercial Interiors

- The project is using IP units.
- The project is using SI units.

All Projects

Select one of the following:

- **Option 1. Tenant-level energy simulation.** The project team will document improvement in the proposed building performance rating as compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2010. (0-25 points)
- **Option 2. Prescriptive compliance path.** The project team will document compliance with the mandatory and prescriptive provisions of ANSI/ASHRAE/IESNA Standard 90.1–2010. (0-16 points)

Option 2. Prescriptive Compliance Path

Select one of the following:

- **Upload: Target Finder performance results** Provide the Target Finder performance results for the project building (a screen capture or other documentation containing the same information).
- The project is unable to use Target Finder because the tool does not support the primary building type of the project building.

Upload: Minimum Energy Retail Calculator
Provide the completed Minimum Energy Retail Calculator (found under the prerequisite's "Resources" tab in the Credit Library) and equipment-specific calculators showing that the project has complied with the prescriptive measures in Appendix 3, Tables 1-4 for 90% of total energy consumption for all process equipment.

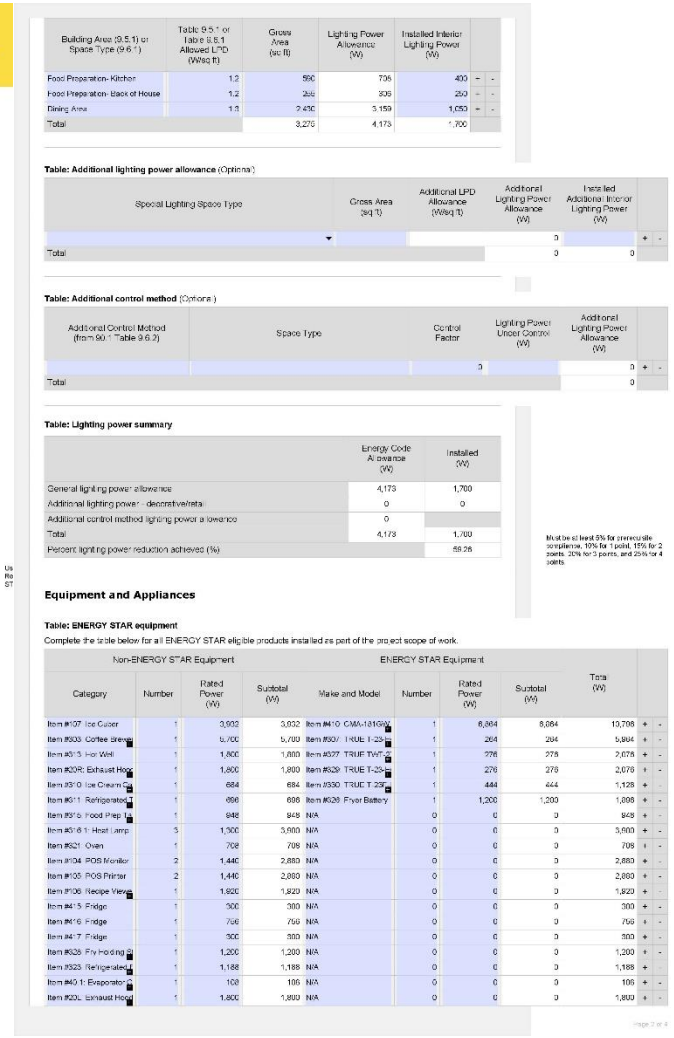
Interior Lighting Power

Select one of the following. Lighting power density is calculated by the following method:

- Using the space-by-space approach
- Applying the whole building lighting power density allowance to the tenant space

- ✓ The project uses additional interior lighting power consistent with the requirements of Section 9.6.2. Additional lighting power is only modeled where the specified lighting is installed and automatically controlled, is separate from the general lighting, and is to be turned off during nonbusiness hours. The additional power is only used for the specified luminaires and not for any other purpose.
- ✓ The lighting power allowance calculation is consistent with ASHRAE 90.1 requirements. Proposed lighting system power includes all lighting system components shown or provided for on the plans (including lamps and ballasts and task and furniture-mounted fixtures, except when specifically excepted in ASHRAE 90.1 Section 9. The track lighting calculation is consistent with Section 9.1.4(c) and does not use the specified wattage of the luminaires initially installed on the track.

Table: Lighting power allowance



Building Area (9.5.1) or Space Type (9.6.1)	Table 9.5.1 or Table 9.6.1 Allowed LPD (W/sq ft)	Gross Area (sq ft)	Lighting Power Allowance (W)	Installed Interior Lighting Power (W)	
Food Preparation- Kitchen	1.2	590	708	400	- -
Food Preparation- Back of House	1.2	208	308	250	- -
Dining Area	1.1	2,430	3,159	1,053	- -
Total		3,276	4,173	1,700	

Table: Additional lighting power allowance (Optional)

Special Lighting Space Type	Gross Area (sq ft)	Additional LPD Allowance (W/sq ft)	Additional Lighting Power Allowance (W)	Installed Additional Interior Lighting Power (W)	
			0		+ -
Total			0	0	

Table: Additional control method (Optional)

Additional Control Method (from 90.1 Table 9.6.2)	Space Type	Control Factor	Lighting Power Under Control (W)	Additional Lighting Power Allowance (W)	
		0		0	+ -
Total				0	

Table: Lighting power summary

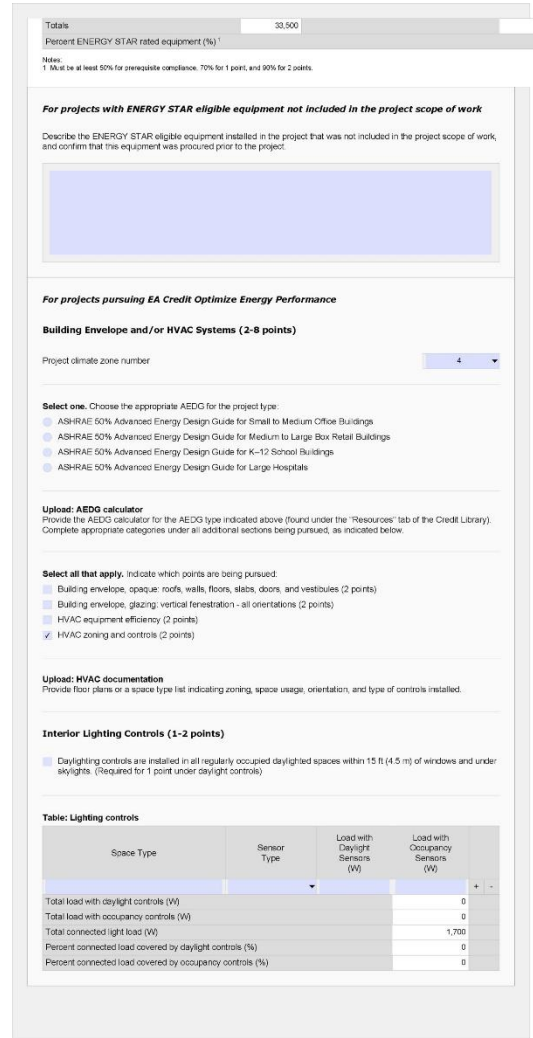
	Energy Code Allowance (W)	Installed (W)
General lighting power allowance	4,173	1,700
Additional lighting power - decorative/retail	0	0
Additional control method lighting power allowance	0	
Total	4,173	1,700
Percent lighting power reduction achieved (%)		59.26

Must be at least 5% for prerequisite compliance, 10% for 1 point, 15% for 2 points, 20% for 3 points, and 25% for 4 points

Equipment and Appliances

Table: ENERGY STAR equipment
Complete the table below for all ENERGY STAR eligible products installed as part of the project scope of work.

Non-ENERGY STAR Equipment				ENERGY STAR Equipment					
Category	Number	Rated Power (W)	Subtotal (W)	Make and Model	Number	Rated Power (W)	Subtotal (W)	Total (W)	
Item #107: Ice Cuber	1	3,002	3,002	Item #410: CMA-1414SW	1	6,864	6,864	10,706	+ -
Item #303: Coffee brewer	1	5,700	5,700	Item #307: HUB T-25	1	264	264	5,964	+ -
Item #315: Hot Well	1	1,800	1,800	Item #327: TRUE TWT	1	276	276	2,076	+ -
Item #326: Exhaust Hood	1	1,800	1,800	Item #329: TRUE T-25	1	276	276	2,076	+ -
Item #330: Ice Cream Ca	1	684	684	Item #330: TRUE T-25	1	444	444	1,128	+ -
Item #311: Refrigerated T	1	696	696	Item #326: Fryer Battery	1	1,200	1,200	1,896	+ -
Item #316: Food Prep Ta	1	948	948	N/A	0	0	0	948	+ -
Item #318: Heat Lamp	5	1,500	3,000	N/A	0	0	0	3,000	+ -
Item #321: Oven	1	708	708	N/A	0	0	0	708	+ -
Item #104: POS Monitor	2	1,440	2,880	N/A	0	0	0	2,880	+ -
Item #105: POS Printer	2	1,440	2,880	N/A	0	0	0	2,880	+ -
Item #106: Recipe Viewe	1	1,920	1,920	N/A	0	0	0	1,920	+ -
Item #415: Fridge	1	300	300	N/A	0	0	0	300	+ -
Item #416: Fridge	1	756	756	N/A	0	0	0	756	+ -
Item #417: Fridge	1	300	300	N/A	0	0	0	300	+ -
Item #328: Fry Holding C	1	1,200	1,200	N/A	0	0	0	1,200	+ -
Item #323: Refrigerated T	1	1,188	1,188	N/A	0	0	0	1,188	+ -
Item #40.1: Evaporator C	1	106	106	N/A	0	0	0	106	+ -
Item #20L: Exhaust Hood	1	1,800	1,800	N/A	0	0	0	1,800	+ -



Totals	33,500	9,324
Percent ENERGY STAR rated equipment (%) [1]		

Notes:
1. Must be at least 50% for prerequisite compliance, 70% for 1 point, and 90% for 2 points.

For projects with ENERGY STAR eligible equipment not included in the project scope of work

Describe the ENERGY STAR eligible equipment installed in the project that was not included in the project scope of work, and confirm that this equipment was procured prior to the project:

For projects pursuing EA Credit Optimize Energy Performance

Building Envelope and/or HVAC Systems (2-8 points)

Project climate zone number: 4

Select one. Choose the appropriate AEDG for the project type:

- ASHRAE 50% Advanced Energy Design Guide for Small to Medium Office Buildings
- ASHRAE 50% Advanced Energy Design Guide for Medium to Large Box Retail Buildings
- ASHRAE 50% Advanced Energy Design Guide for K–12 School Buildings
- ASHRAE 50% Advanced Energy Design Guide for Large Hospitals

Upload: AEDG calculator
Provide the AEDG calculator for the AEDG type indicated above (found under the "Resources" tab of the Credit Library). Complete appropriate categories under all additional sections being pursued, as indicated below.

Select all that apply. Indicate which points are being pursued:

- Building envelope, opaque: roofs, walls, floors, slabs, doors, and vestibules (2 points)
- Building envelope, glazing: vertical fenestration - all orientations (2 points)
- HVAC equipment efficiency (2 points)
- ✓ HVAC zoning and controls (2 points)

Upload: HVAC documentation
Provide floor plans or a space type list indicating zoning, space usage, orientation, and type of controls installed.

Interior Lighting Controls (1-2 points)

- Daylighting controls are installed in all regularly occupied daylighted spaces within 15 ft (4.5 m) of windows and under skylights. (Required for 1 point under daylight controls)

Table: Lighting controls

Space Type	Sensor Type	Load with Daylight Sensors (W)	Load with Occupancy Sensors (W)	
				+ -
Total load with daylight controls (W)			0	
Total load with occupancy controls (W)			0	
Total connected light load (W)			1,700	
Percent connected load covered by daylight controls (%)			0	
Percent connected load covered by occupancy controls (%)			0	

Must be at least
Must be at least

PORT AUTHORITY NY NJ
AIR LAND RAIL SEA

Typical Credit Template And Backup Documentation- Energy and Atmosphere

COMcheck Software Version 4.1.0.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: [redacted]
Project Type: New Construction

Construction Site: [redacted]

Owner/Agent:

Designer/Contractor: [redacted] 3rd Fl
New York, NY 10018
2127928700

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Cinema 1 (Motion Picture Theater:Audience/Seating Area)	2085	1.03	2148
Allowance: Decorative Appearance / Fix. ID: BB	1000 (a)	1.00	180 (b)
2-Storage (112) (Common Space Types:Storage >=50 - <=1000 sq.ft.)	138	0.57	79
3-Cineam 2 (Motion Picture Theater:Audience/Seating Area)	1016	1.03	1046
4-Utilities(M102) (Common Space Types:Electrical/Mechanical)	246	0.85	209
5-Corridor (Common Space Types:Corridor/Transition >=8 ft wide)	330	0.59	195
6-Hallway (Common Space Types:Corridor/Transition <8 ft wide)	524	0.59	309
7-Concession (Common Space Types:Dining Area - General)	533	0.59	314
Allowance: Decorative Appearance / Fix. ID: BE	533 (a)	1.00	40 (b)
Allowance: Decorative Appearance / Fix. ID: BT-A	533 (a)	1.00	6 (b)
Allowance: Decorative Appearance / Fix. ID: BS-C	533 (a)	1.00	9 (b)
Allowance: Decorative Appearance / Fix. ID: BF	533 (a)	1.00	533 (b)
8-Main Lobby(101,103) (Motion Picture Theater:Lobby)	1177	0.53	624
Allowance: Decorative Appearance / Fix. ID: BH	1177 (a)	1.00	925 (b)
Allowance: Decorative Appearance / Fix. ID: BC	25 (a)	1.00	25 (b)
Allowance: Decorative Appearance / Fix. ID: BL	50 (a)	1.00	50 (b)
9-Toilets (Common Space Types:Restrooms)	243	0.88	214
Allowance: Decorative Appearance / Fix. ID: BQ	243 (a)	1.00	243 (b)
Allowance: Decorative Appearance / Fix. ID: BM	243 (a)	1.00	16 (b)
10-Stairwell (Common Space Types:Stairwell)	233	0.62	144
11-Storage (Common Space Types:Storage <50 sq.ft.)	108	1.12	121
12-Ticket Office (Common Space Types:Office - Enclosed)	34	1.00	34
13-Main Entry (EX100) (Automotive:Vehicular Maintenance Area)	162	0.60	97
14-Mechanical (Common Space Types:Electrical/Mechanical)	435	0.85	370
15-Projection Booth (Motion Picture Theater:Audience/Seating Area)	454	1.03	468
Allowance: Decorative Appearance / Fix. ID: BH	128 (a)	1.00	128 (b)
16-Hallway (Common Space Types:Corridor/Transition <8 ft wide)	206	0.59	122
17-Office (Common Space Types:Office - Enclosed)	511	1.00	511
18-Storage (Common Space Types:Storage <50 sq.ft.)	94	1.12	105
19-Stair (Common Space Types:Stairwell)	324	0.62	201
20-Lobby (Motion Picture Theater:Lobby)	925	0.53	490
Allowance: Decorative Appearance / Fix. ID: BN	300 (a)	1.00	51 (b)
21-Stair (Common Space Types:Stairwell)	268	0.62	166

Project Title: [redacted]
Data filename: [redacted]

Report date: 08/29/18
Page 1 of 8

LIGHTOLIER by signify

Downlighting

EasyLyte

Z6RDL 6" Round Aperture

Adaptable, and flexible for your changing project needs. It is your best choice without sacrificing ease of installation or product quality.

Project:
Location:
Cat.No:
Type:
Lamps: Qty:
Notes:

Frame (frame + trim = complete product) example: 6RN

Series	Aperture	Installation	Options
6 6-inch Non-IC	R Round	N New construction (Non-IC) R Remodeler (Non-IC) A AirSeal (IC)[1]	– Universal 120/277V (specify for Power Over Ethernet) LC Chicago Plenum[2] EM Emergency[4] 3 347V (not compatible with ELV dimming) 3IP 347V with Interact Pro (for use with 0-10V engines only)[2,3] IP Interact Pro (for use with 0-10V engines only)[2,3]

Trim example: Z4RDL20835WOCDZ10U

Series	Lumen	CRI/CCT	Beam	Style	Reflector
Z6RDL EasyLyte 6-inch Round	10 1000lm 15 1500lm 20 2000lm 25 2500lm 30 3000lm 35 3500lm	827 80 CRI / 2700 K 830 80 CRI / 3000 K 835 80 CRI / 3500 K 840 80 CRI / 4000 K	W Wide	O Open S Step baffle	CD Clear diffuse (applied finish) BK Black (matte) WH White (matte)

Dimming	Voltage
Z10 0-10V 1% L Lutron LDE1 EcoSystem (fade-to-black)	U Universal 120/277/347V
ELV ELV[5]	1 120V
P Power over Ethernet (PoE)	E Ethernet 48V DC
Only compatible with 1000 (10) to 2500 (25) lumen options	

1. There is a 3000lm (30) limit with 6" (6RA) IC housings.
2. Interact Pro (IP), Emergency (EM) and Chicago Plenum (LC) are only available with New construction (N) installs.
3. Integral Interact Pro RF sensor enables network lighting control, to be specified with 0-10V light engines only.
4. Emergency (EM) frame comes with emergency battery pack and ceiling mountable test switch.
5. ELV (E) dimming is only compatible with 1000lm (10), 1500lm (15), 2000lm (20) configurations.

Note: Consult factory for additional dimming options.

IC INSULATION CONTACT · cULus LISTED · WET LOCATION · RoHS COMPLIANT · ENERGY STAR · interact ready.

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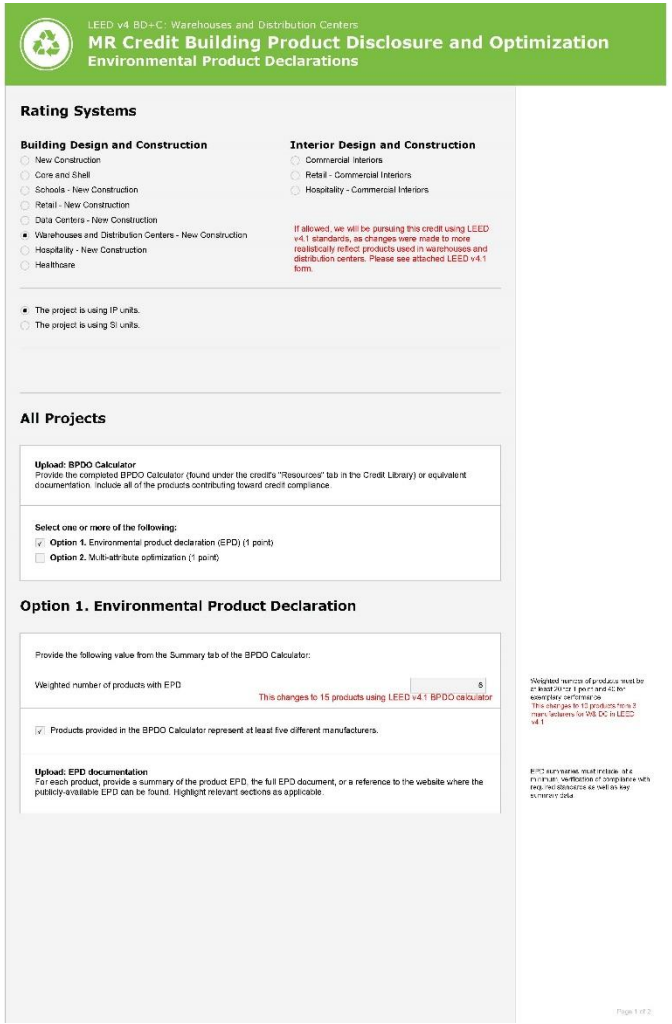
Typical Credit Template & Backup Documentation- Materials and Resources

MRc Building Product Declaration Optimization- Environmental Product Declararions

1. Provide completed template that identifies compliance Strategy. Most interior projects choose EPD method and provide.
   a) Clarification on which rating system you are using 4.0 or 4.1
   b) Completed BDPO Calculator.
   c) Environmental Product Declarations of products selected.



LEED v4 BD+C: Warehouses and Distribution Centers

MR Credit Building Product Disclosure and Optimization
Environmental Product Declarations

Rating Systems

Building Design and Construction
- New Construction
- Core and Shell
- Schools - New Construction
- Retail - New Construction
- Data Centers - New Construction
- Warehouses and Distribution Centers - New Construction
- Hospitality - New Construction
- Healthcare

Interior Design and Construction
- Commercial Interiors
- Retail - Commercial Interiors
- Hospitality - Commercial Interiors

If allowed, we will be pursuing this credit using LEED v4.1 standards, as changes were made to more realistically reflect products used in warehouses and distribution centers. Please see attached LEED v4.1 form.

- The project is using IP units.
- The project is using SI units.

All Projects

Upload: BPDO Calculator
Provide the completed BPDO Calculator (found under the credit's "Resources" tab in the Credit Library) or equivalent documentation. Include all of the products contributing toward credit compliance.

Select one or more of the following:
- Option 1. Environmental product declaration (EPD) (1 point)
- Option 2. Multi-attribute optimization (1 point)

Option 1. Environmental Product Declaration

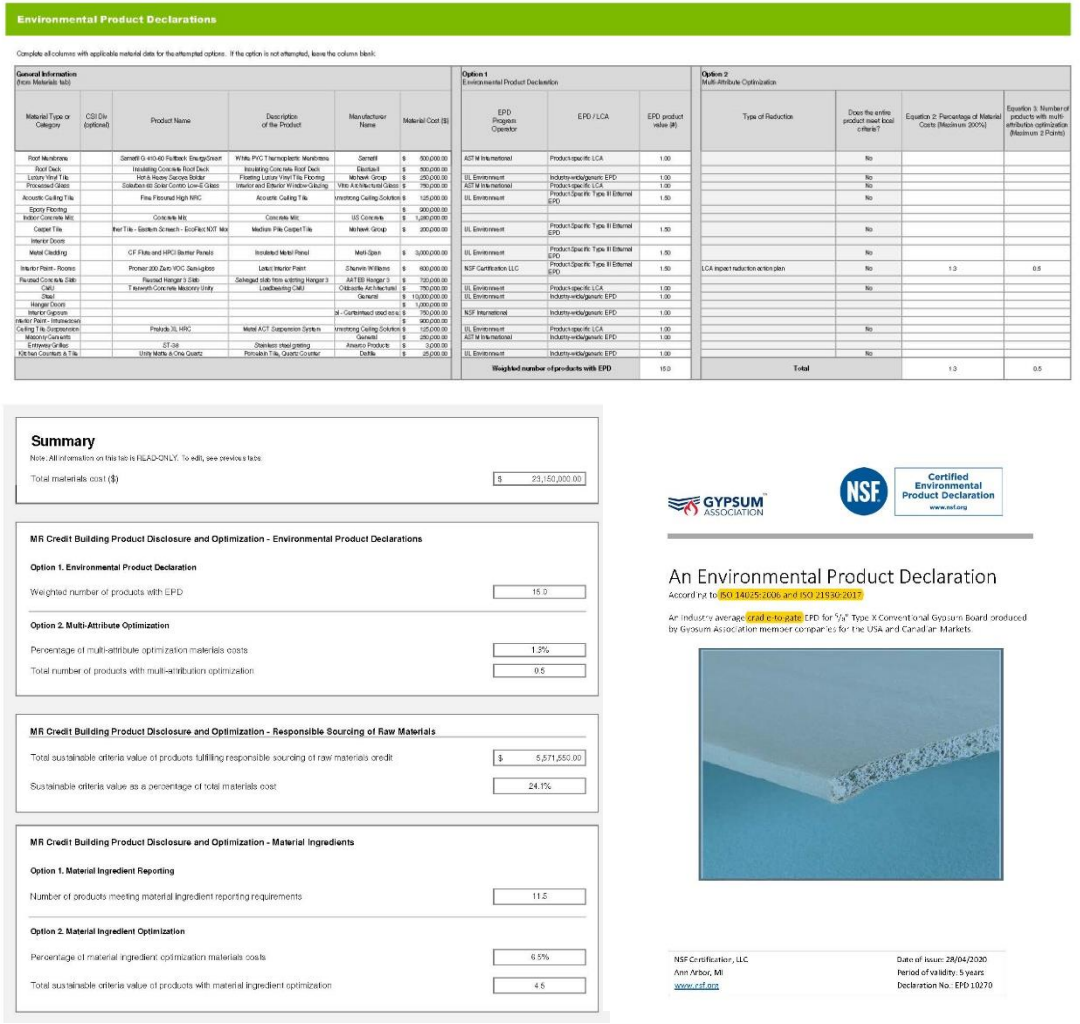
Provide the following value from the Summary tab of the BPDO Calculator:

Weighted number of products with EPD: 5

This changes to 15 products using LEED v4.1 BPDO calculator

Products provided in the BPDO Calculator represent at least five different manufacturers.

Upload: EPD documentation
For each product, provide a summary of the product EPD, the full EPD document, or a reference to the website where the publicly-available EPD can be found. Highlight relevant sections as applicable.



Environmental Product Declarations

Complete all columns with applicable material data for the attempted options. If the option is not attempted, leave the column blank.

General Information (from Materials tab)						Option 1 Environmental Product Declaration			Option 2 Multi-Attribute Optimization			
Material Type or Category	CSI Div (optional)	Product Name	Description of the Product	Manufacturer Name	Material Cost ($)	EPD Program Operator	EPD / LCA	EPD product value (#)	Type of Reduction	Does the entire product meet local criteria?	Equation 2: Percentage of Material Costs (Maximum 200%)	Equation 3: Number of products with multi-attribution optimization (Maximum 2 Points)
Roof Membrane		Sarnafil G 410-60 Fleetback EnergySmart	White, PVC Thermoplastic Membrane	Sarnafil	$ 500,000.00							
Roof Deck		Insulating Concrete Roof Deck	Insulating Concrete Roof Deck	Elastizell	$ 500,000.00							
Luxury Vinyl Tile		Hot & Heavy Sarcee Bolder	Floating Luxury Vinyl Tile Flooring	Mohawk Group	$ 250,000.00	UL Environment	Industry-wide/generic EPD	1.00		No		
Processed Glass		Solarban 60 Solar Control Low-E Glass	Interior and Exterior Window Glazing	Vitro Architectural Glass	$ 750,000.00	ASTM International	Product-specific LCA	1.00		No		
Acoustic Ceiling Tile		Fine Fissured High NRC	Acoustic Ceiling Tile	Armstrong Ceiling Solutions	$ 125,000.00	UL Environment	Product-Specific Type III External EPD	1.00		No		
Epoxy Flooring					$ 500,000.00							
Indoor Concrete Mix		Concrete Mix	Concrete Mix	US Concrete	$ 1,000,000.00							
Carpet Tile		Net Tile - Bottom Screech - EcoFlect NXT Mix	Medium Pile Carpet Tile	Mohawk Group	$ 200,000.00	UL Environment	Product-Specific Type III External EPD	1.00		No		
Interior Doors												
Metal Cladding		CF Flute and HPCI Barrier Panels	Insulated Metal Panel	Metl-Span	$ 3,000,000.00	UL Environment	Product-Specific Type III External EPD	1.00		No		
Interior Paint - Rooms		Promar 200 Zero VOC Semi-gloss	Latex Interior Paint	Sherwin Williams	$ 600,000.00	NSF Certification LLC	Product-Specific Type III External EPD	1.00	LCA impact reduction action plan	No	1.3	0.5
Flexural Concrete Slab		Flexural Hanger 3 Slab	Salvaged slab from existing Hanger 3	AATEB Hanger 3	$ 700,000.00							
CMU		Tidewyth Concrete Masonry Unit	Loadbearing CMU	Oldcastle Architectural	$ 750,000.00	UL Environment	Product-specific LCA	1.00		No		
Steel				General	$ 10,000,000.00	UL Environment	Industry-wide/generic EPD	1.00				
Hanger Doors					$ 1,000,000.00							
Interior Gypsum				SI - Cantilevered steel e.c.	$ 750,000.00	NSF International	Industry-wide/generic EPD	1.00				
Interior Paint - Intumescent					$ 900,000.00							
Ceiling Tile, Suspension		Prelude XL HRC	Metal ACT Suspension System	Armstrong Ceiling Solutions	$ 125,000.00	UL Environment	Product-specific LCA	1.00		No		
Masonry Concrete				Gerwell	$ 250,000.00	ASTM International	Industry-wide/generic EPD	1.00				
Entryway Grilles		ET Gil	Stainless steel grating	Ameico Products	$ 3,000.00							
Kitchen Countertops & Tile		Unity Matte & Cha Quartz	Porcelain Tile, Quartz Counter	Daltile	$ 25,000.00	UL Environment	Industry-wide/generic EPD	1.00		No		
						Weighted number of products with EPD		15.0	Total		1.3	0.5

Summary

Note: All information on this tab is READ-ONLY. To edit, see previous tabs.

Total materials cost ($): $ 23,150,000.00

MR Credit Building Product Disclosure and Optimization - Environmental Product Declarations

Option 1. Environmental Product Declaration

Weighted number of products with EPD: 15.0

Option 2. Multi-Attribute Optimization

Percentage of multi-attribute optimization materials costs: 1.3%

Total number of products with multi-attribution optimization: 0.5

MR Credit Building Product Disclosure and Optimization - Responsible Sourcing of Raw Materials

Total sustainable criteria value of products fulfilling responsible sourcing of raw materials credit: $ 5,571,550.00

Sustainable criteria value as a percentage of total materials cost: 24.1%

MR Credit Building Product Disclosure and Optimization - Material Ingredients

Option 1. Material Ingredient Reporting

Number of products meeting material ingredient reporting requirements: 11.5

Option 2. Material Ingredient Optimization

Percentage of material ingredient optimization materials costs: 6.5%

Total sustainable criteria value of products with material ingredient optimization: 4.5

GYPSUM ASSOCIATION

NSF Certified Environmental Product Declaration
www.nsf.org

An Environmental Product Declaration

According to ISO 14025:2006 and ISO 21930:2017

An industry average cradle-to-gate EPD for 5/8" Type X Conventional Gypsum Board produced by Gypsum Association member companies for the USA and Canadian Markets.

NSF Certification, LLC
Ann Arbor, MI
www.nsf.org

Date of Issue: 28/04/2020
Period of Validity: 5 years
Declaration No.: EPD 10270

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TYPICAL CREDIT TEMPLATE WALK-THROUGH

Sustainable Design – Common Challenges

1. Projects not attempting all ***applicable*** and ***achievable*** credits
   a) Interior Design Projects can utilize some base building components to meet some credit criteria. The PANYNJ can provide you with some of the Location and Transportation credit documentation for your facility.
   b) Project without HVAC Scope can still achieve points under the Advanced Refrigerant Management and Optimize Energy Credits.
   c) Tenants are encouraged to coordinate with SDM on Location and Transportation credits that have already been documented by the PANYNJ.
   d) Tenants are encouraged to visit the USGBC website for applicable Innovation and Regional Priority Credits

2. Projects attempting credits not appropriate for the scope
   a) Interior Projects cannot use base building credits that they did not contribute to.

3. Design vs Construction Credits.
   a) Projects under 20,000 sq.ft. can achieve construction based credits during the design review process by making the requirements of the credit part of the construction contract. Credits such as Construction and Demolition Waste Management, Construction Indoor Air Quality Management and the Material Optimization Credits fall under this category.

4. Projects not meeting credit performance thresholds.
   a) Projects with limited number of construction materials can still demonstrate best efforts to adhere to the requirements of any three Building Product Disclosure and Optimization credits or Low Emitting Material Credits can be awarded points at the discretion of the SDM.


QUESTIONS?

What is the most important thing you learned today?

Thank You!

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