



# Envelope Compliance Certificate

## Project Information

Energy Code: 2012 IECC  
 Project Title: The Edge at Polaris  
 Location: Columbus, Ohio  
 Climate Zone: 5a  
 Project Type: New Construction  
 Vertical Glazing / Wall Area: 10%  
 Permit Date: 6-12-2019  
 Permit No. NEWM1904745

Construction Site:  
 8500 Saucus Blvd  
 Columbus, OH 43240

Owner/Agent:  
 DLB Architect LLC  
 353 South Drexel Avenue  
 Columbus, OH 43209  
 614-582-2454  
 dbetzarch@gmail.com

Designer/Contractor:  
 The Edge at Polaris LLC  
 Columbus, OH 43240

## Additional Efficiency Package(s)

On-site Renewable Energy

## Building Area

## Floor Area

1-Multifamily : Nonresidential

1383

## Envelope Assemblies

| Assembly   | Gross Area<br>or<br>Perimeter | Cavity<br>R-Value | Cont.<br>R-Value | Proposed<br>U-Factor | Budget U-<br>Factor <sup>(a)</sup> |
|--|-------------------------------|-------------------|------------------|----------------------|------------------------------------|
| Roof 1: Attic Roof with Wood Joists, [Bldg. Use 1 - Multifamily]   | 1383                          | 0.0               | 38.0             | 0.025                | 0.027                              |
| Exterior Wall 1: Wood-Framed, 16" o.c., [Bldg. Use 1 - Multifamily]  | 1338                          | 18.0              | 0.0              | 0.078                | 0.064                              |
| Window 1: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                              | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 1: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 2: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 3: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 4: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 5: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 6: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Window 1 copy 7: Vinyl/Fiberglass Frame:Operable, Perf. Specs.: Product ID na, SHGC 0.45, PF 1.00, [Bldg. Use 1 - Multifamily] (b)                       | 14                            | ---               | ---              | 0.300                | 0.450                              |
| Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Multifamily]   | 20                            | ---               | ---              | 0.500                | 0.370                              |
| Door 1 copy 1: Glass (> 50% glazing):Nonmetal Frame, Non-Entrance Door, Perf. Specs.: Product ID na, SHGC 0.77, PF 1.00, [Bldg. Use 1 - Multifamily] (b) | 20                            | ---               | ---              | 0.500                | 0.770                              |





# Interior Lighting Compliance Certificate

## Project Information

Energy Code: 2012 IECC  
 Project Title: The Edge at Polaris  
 Project Type: New Construction  
 Permit Date: 6-12-2019  
 Permit No. NEWM1904745

Construction Site:  
 8500 Saucus Blvd  
 Columbus, OH 43240

Owner/Agent:  
 DLB Architect LLC  
 353 South Drexel Avenue  
 Columbus, OH 43209  
 614-582-2454  
 dbetzarch@gmail.com

Designer/Contractor:  
 The Edge at Polaris LLC  
 Columbus, OH 43240

## Additional Efficiency Package(s)

On-site Renewable Energy

## Allowed Interior Lighting Power

| A<br>Area Category    | B<br>Floor Area<br>(ft <sup>2</sup> ) | C<br>Allowed<br>Watts / ft <sup>2</sup> | D<br>Allowed Watts<br>(B X C) |
|-----------------------|---------------------------------------|---|-------------------------------|
| 1-Multifamily         | 1383                                  | 0.70                                    | 968                           |
| Total Allowed Watts = |                                       |   | 968                           |

## Proposed Interior Lighting Power

| A<br>Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast | B<br>Lamps/<br>Fixture | C<br># of<br>Fixtures | D<br>Fixture<br>Watt. | E<br>(C X D) |
|---|------------------------|-----------------------|-----------------------|--------------|
| 1-Multifamily   |                        |                       |                       |              |
| Total Proposed Watts =  |                        |                       |                       | 0            |

**Interior Lighting TBD: No lighting fixtures specified**



# Exterior Lighting Compliance Certificate

## Project Information

Energy Code: 2012 IECC  
Project Title: The Edge at Polaris  
Project Type: New Construction  
Permit Date: 6-12-2019  
Permit No. NEWM1904745  
Exterior Lighting Zone 0 (Unspecified)

Construction Site:  
8500 Saucus Blvd  
Columbus, OH 43240

Owner/Agent:  
DLB Architect LLC  
353 South Drexel Avenue  
Columbus, OH 43209  
614-582-2454  
dbetzarch@gmail.com

Designer/Contractor:  
The Edge at Polaris LLC  
Columbus, OH 43240

## Allowed Exterior Lighting Power

| A<br>Area/Surface Category | B<br>Quantity | C<br>Allowed<br>Watts / Unit | D<br>Tradable<br>Wattage               | E<br>Allowed Watts<br>(B X C) |
|----------------------------|---------------|------------------------------|--|-------------------------------|
|                            |               |                              | Total Tradable Watts (a) =             | 0                             |
|                            |               |                              | Total Allowed Watts =                  | 0                             |
|                            |               |                              | Total Allowed Supplemental Watts (b) = | 500                           |

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

(b) A supplemental allowance equal to 500 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

## Proposed Exterior Lighting Power

**Exterior Lighting TBD: Exterior lighting zone not specified (see project screen)**



# Mechanical Compliance Certificate

## Project Information

Energy Code: 2012 IECC  
Project Title: The Edge at Polaris  
Location: Columbus, Ohio  
Climate Zone: 5a  
Project Type: New Construction  
Permit Date: 6-12-2019  
Permit No. NEWM1904745

Construction Site:  
8500 Saucus Blvd  
Columbus, OH 43240

Owner/Agent:  
DLB Architect LLC  
353 South Drexel Avenue  
Columbus, OH 43209  
614-582-2454  
dbetzarch@gmail.com

Designer/Contractor:  
The Edge at Polaris LLC  
Columbus, OH 43240

## Additional Efficiency Package(s)

On-site Renewable Energy

## Mechanical Systems List

### Quantity System Type & Description

## Mechanical Compliance Statement

*Compliance Statement:* The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

\_\_\_\_\_  
Name - Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



# Inspection Checklist

Energy Code: 2012 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

| Section # & Req.ID           | Plan Review  | Complies?  | Comments/Assumptions                          |
|------------------------------|--|--|---|
| C103.2 [PR1] <sup>1</sup>    | Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C406 [PR9] <sup>1</sup>      | Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C406.4 [FI49] <sup>1</sup>   | On-site renewable efficiency package. One of the following levels of renewable energy must be satisfied: provide $\geq 1.75$ Btu/h, or $\geq 0.50$ watts per square foot of conditioned floor area or provide $\geq 3$ percent of the energy used within the building for mechanical and service water heating equipment and lighting.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.3.1 [PR10] <sup>1</sup> | The vertical fenestration area $\leq 30$ percent of the gross above-grade wall area.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.3.1 [PR11] <sup>1</sup> | The skylight area $\leq 3$ percent of the gross roof area.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.3.2 [PR14] <sup>1</sup> | In enclosed spaces $> 10,000$ ft <sup>2</sup> directly under a roof with ceiling heights $> 15$ ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is $\geq$ half the floor area; (b) the skylight area to daylight zone is $\geq 3$ percent with a skylight VT $\geq 0.40$ ; or a minimum skylight effective aperture $\geq 1$ percent. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|

| Section # & Req.ID                | Plan Review  | Complies?  | Comments/Assumptions                          |
|-----------------------------------|--|--|---|
| C402.3.2.2<br>[PR15] <sup>1</sup> | Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/sorting area have a measured haze value > 90 percent unless designed to exclude direct sunlight. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |

**Additional Comments/Assumptions:**

|                        |                          |                       |
|------------------------|--------------------------|-----------------------|
| 1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3) |
|------------------------|--------------------------|-----------------------|

| Section # & Req.ID            | Footing / Foundation Inspection   | Complies?  | Comments/Assumptions   |
|-------------------------------|---|--|--|
| C402.2.6 [FO3] <sup>2</sup>   | Slab edge insulation R-value.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values.  |
| C303.2 [FO4] <sup>2</sup>     | Slab edge insulation installed per manufacturer's instructions.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C402.2.6 [FO5] <sup>2</sup>   | Slab edge insulation depth/length. Slab insulation extending away from building is covered by pavement or >= 10 inches of soil. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values.  |
| C403.2.8.1 [FO6] <sup>1</sup> | Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.       | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.   |
| C402.2.8 [FO12] <sup>3</sup>  | Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply.<br>See the Envelope Assemblies table for values. |

**Additional Comments/Assumptions:**

|                        |                          |                       |
|------------------------|--------------------------|-----------------------|
| 1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3) |
|------------------------|--------------------------|-----------------------|



| Section # & Req.ID                     | Framing / Rough-In Inspection   | Complies?  | Comments/Assumptions                          |
|--|---|--|---|
| C402.4.1, C402.4.2 [FR16] <sup>1</sup> | The building envelope contains a continuous air barrier that is sealed in an approved manner and either constructed or tested in an approved manner. Air barrier penetrations are sealed in an approved manner. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.4.3, C402.4.4 [FR18] <sup>3</sup> | Factory-built fenestration and doors are labeled as meeting air leakage requirements.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.4.7 [FR17] <sup>3</sup>           | Vestibules are installed on all building entrances. Doors have self-closing devices.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C402.3.3, C402.3.4 [FR8] <sup>1</sup>  | Vertical fenestration U-Factor.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values. |
| C402.3.3 [FR10] <sup>1</sup>           | Vertical fenestration SHGC value.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values. |
| C303.1.3 [FR12] <sup>2</sup>           | Fenestration products rated in accordance with NFRC.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C303.1.3 [FR13] <sup>1</sup>           | Fenestration products are certified as to performance labels or certificates provided.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.2.7 [FR14] <sup>2</sup>           | U-factor of opaque doors associated with the building thermal envelope meets requirements.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values. |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|

| Section # & Req.ID                | Mechanical Rough-In Inspection  | Complies?  | Comments/Assumptions                          |
|-----------------------------------|---|--|---|
| C402.4.5.1<br>[ME3] <sup>3</sup>  | Stair and elevator shaft vents have motorized dampers that automatically close.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C402.4.5.2<br>[ME58] <sup>3</sup> | Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |

**Additional Comments/Assumptions:**

|                        |                          |                       |
|------------------------|--------------------------|-----------------------|
| 1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3) |
|------------------------|--------------------------|-----------------------|

| Section # & Req.ID               | Insulation Inspection   | Complies?  | Comments/Assumptions                          |
|----------------------------------|---|--|---|
| C402.4.1.1<br>[IN1] <sup>1</sup> | All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.4.2.1<br>[IN2] <sup>1</sup> | Roof R-value. For some ceiling systems, verification may need to occur during Framing Inspection.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values. |
| C303.2<br>[IN3] <sup>1</sup>     | Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C303.2<br>[IN7] <sup>1</sup>     | Above-grade wall insulation installed per manufacturer's instructions.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.2.5<br>[IN8] <sup>2</sup>   | Floor insulation R-value.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | See the Envelope Assemblies table for values. |
| C303.1<br>[IN10] <sup>2</sup>    | Building envelope insulation is labeled with R-value or insulation certificate providing R-value and other relevant data.   | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C303.2.1<br>[IN14] <sup>2</sup>  | Exterior insulation is protected from damage with a protective material. Verification for exposed foundation insulation may need to occur during Foundation Inspection.                         | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |
| C402.2.1<br>[IN17] <sup>3</sup>  | Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.         | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |

**Additional Comments/Assumptions:**

|   |                      |   |                        |   |                     |
|---|----------------------|---|------------------------|---|---------------------|
| 1 | High Impact (Tier 1) | 2 | Medium Impact (Tier 2) | 3 | Low Impact (Tier 3) |
|---|----------------------|---|------------------------|---|---------------------|

| Section # & Req.ID           | Final Inspection   | Complies?  | Comments/Assumptions                          |
|------------------------------|--|--|---|
| C402.4.6 [FI37] <sup>1</sup> | Weatherseals installed on all loading dock cargo doors.  | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | <b>Exception:</b> Requirement does not apply. |
| C402.4.8 [FI26] <sup>3</sup> | Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing. | <input type="checkbox"/> Complies<br><input type="checkbox"/> Does Not<br><input type="checkbox"/> Not Observable<br><input type="checkbox"/> Not Applicable | Requirement will be met.                      |

**Additional Comments/Assumptions:**

|                        |                          |                       |
|------------------------|--------------------------|-----------------------|
| 1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3) |
|------------------------|--------------------------|-----------------------|

