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Flat Glass Products - Tempering  
Insulating - Beveling - Edgework  
All-Glass Doors - Shower Enclosures  
StoreFront and Curtain Wall Systems  
Aluminum Entrances

## **NEW YORK CITY ADOPTS A MORE STRINGENT ENERGY CODE THAN THE NEW YORK STATE ENERGY CODE**

Effective May 12, 2020, the same day New York State is adopting new building codes, New York City is adopting its own energy code, the 2020 NYCECC.

The combined glass and framing prescriptive compliance method performance requirements from the 2020 NYCEE prescriptive compliance are attached.

The metal fixed framing U-factor requirement is reduced to a .30 below 95 feet, .36 above 95 feet.

For compliance using storefront framing, this would require the use of:

- a double thermal break storefront system, like Tubelite 24000, and
- insulating glass with a .20 center of glass U-factor which requires:
  - a warm edge spacer,
  - a double silver soft coat low e product like Guardian SN-68 or Vitro SB 68,
  - argon gas, and
  - a low e coating on the interior surface as well, like a Guardian IS 20 or Pilkington Energy Advantage.

The New York City Code has an additional category that the State Code does not have called “Curtainwall fixed” with a .36 combined glass and framing U-factor requirement.

The SHGC requirements are the same as those listed in the State Energy Code for Zone 4.

The Entrance Door U-factor requirement is .77, the same as the State Code. That allows for the use of standard non-insulated aluminum doors, using insulating glass with center of glass U-factors as listed in Tubelite’s Standard Entrance U-factor chart.

The full 2020 NYCECC can be viewed online at <https://www1.nyc.gov/site/buildings/codes/2020-energy-conservation-code.page>

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2020 NYCECC

**TABLE C402.4  
 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR  
 AND SHGC REQUIREMENTS**

CLIMATE ZONE	4 EXCEPT MARINE	
	Vertical fenestration	
	U-factor <sup>a</sup>	
	Below 95' <sup>b</sup>	95' and above <sup>b</sup>
Nonmetal framing (all)	0.28	0.28
Metal framing fixed	0.30	0.36
Metal framing operable	0.40	0.42
Curtainwall fixed	0.36	0.36
Entrance doors	0.77	
	SHGC <sup>c</sup>	
PF < 0.2	0.36	
0.2 ≤ PF < 0.5	0.43	
PF ≥ 0.5	0.58	
	Skylights	
U-factor <sup>a</sup>	0.48	
SHGC <sup>c</sup>	0.38	

PF = Projection Factor.

- a. U-factor shall be rated in accordance with NFRC 100.
- b. Where any portion of the fenestration frame is installed at or above 95 feet (28 950 mm) above grade, the unit may meet the requirements for 95 feet (28 950 mm) and above.
- c. SHGC shall be rated in accordance with NFRC 200.