



SOMA BUILDING 3

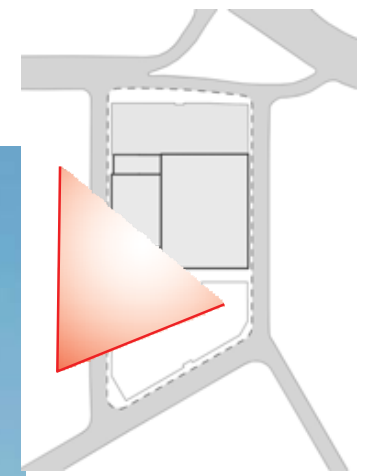
SUPPLEMENT TO JUNE 21, 2017
SOMA BUILDING 3 DESIGN REVIEW
PLANNING BOARD SUBMITTAL

Building 3 overall energy performance and exterior wall thermal performance summary

% better than Ashrae 2013	25%
% better than Stretch Code	15%
Number LEED v4 points	8
% envelope contributes to energy consumption	7-8%
Wall U value *	0.32
Wall R value *	3.125

* Combined value for entire wall including shadowbox, louvers, and vision glass.

* NOTE: Some trees in landscape have been removed to increase visibility of building facade.



**VIEW FROM SOUTH HAYWARD STREET
EARLY AFTERNOON**

Technical values

Product designation: 1" IGU, Ipasol Platin 52/36

Glazing configuration: 6:|12|6

Outside pane: 6 mm (1/4") Planibel Clearlite. Ipasol Platin 52/36 on surface #2

cavity: 12 mm

gas: 90% Argon

Inside pane: 6 mm (1/4") Planibel Clearlite

Light and solar radiant heat factors – declared values
(WINDOW 6 v 6.3.74.0; Standard: W5_NFRC_2003.std):

Light transmittance:	51 %
Light reflectance	
• Outside:	30 %
• Inside:	16 %
UV-transmittance:	23 %
Solar direct transmittance:	31 %
Solar direct reflectance:	41 %
Solar direct absorption:	
• Outside pane:	26 %
• Inside pane:	2 %
SHGC:	0.35
Shading coefficient:	0.40

Thermal transmittance coefficient (NFRC 100-2010)

U_g -value _{summer} =	1.30 W/m ² K	= 0.23 Btu/(hr x sqft)
U_g -value _{winter} =	1.39 W/m ² K	= 0.24 Btu/(hr x sqft)

Date: 11 Nov 2016

Contact: Yago Martinez

Light and solar radiant heat factors may vary due to the chemical composition of the glass and the production process.
These factors refer to test panes as specified by the applicable testing standard.

: position of the coating

	SOMA Building 3 - Data for glass types referenced in elevations.		
	Vision glass curtainwall w/ vertical mullions @ 2'-9" on center	Curtainwall w/ silicone joint, 5'-6" wide module (first floor and 6th floor storefront)	Curtainwall w/ silicone joint, 5'- 6" wide module (Atrium)
Product	Interpane Ipasol Platin 52-36	Interpane Ipasol Neutral 70/37	(generic optiwhite low iron)
Configuration, outside to inside	1/4"glass, 1/2" air space, 1/4" glass	3/8" glass, 1/2" air space, 1/4" glass	1/2" to 5/8" laminated glass (no air space)
Light Transmittance	51%	72%	0.86
Light Reflectance	30%	12%	0.08
SHGC	0.35	0.35	0.8
Shading Coefficient	0.4	n/a	0.91
U-Value (winter)	0.24	0.24	0.95
U-Value (summer)	0.23	0.22	n/a
			10-Jul-17

GLASS TYPE DATA