VARIANCE FEES

MGO \$50.00 COMM \$490.00 Priority – Double above

PETITION FOR VARIANCE APPLICATION

City of Madison Building Inspection Division

215 Martin Luther King Jr. Blvd. Madison, WI 53703 (608) 266-4568

Amount Paid	\$490	Red

Name of Owner	Project Description	Agent, architect, or engineering firm
MARC LIFSHIN	UNIVERSATY PASED HOUSING	
Company (if applies)	PROJECT WITH RETAIL AND	No. & Street
COPE CAMPUS No. & Street	Tenant name (if any)	224 WEST HURON STREET City, State, Zip Code
2234 W. NORTH AVELLUE	, , ,	CHICAGO, L. GOGEA
City, State, Zip Code CHICAGO, IL. GOG47	Building Address 441 N. FRANCES STREET	Phone 210 - 200 - 1170
Phone	141 N. FRANCES STATE	312 - 266 - 1126 Name of Contact Person
773-227-2850	MADISON, WISCONSON	JEFF ZELISKO
e-mail MARC@CORECAMP. US	•	e-mail JZELISKOQANTUNOVICH.CON
	as follows: (Cite the specific rule numbe	er and language. Also, indicate the
nonconforming conditions for vo	ur project.)	
" 2009 PC - TAPALE	705.8 - PROTECTED OF	ENINGS WITHIN 3 OF
		ODE SECTION ENCLOSED)
1 2009 BC - TAPLE		BEQUIREMENT- Hour
(SEE CODE SECTION		
2. The rule being petitioned canno		DECONTRACT OF BURNISH
POTRICI OF THE LESK	KIN COMMITTEE (UDC) HY	DEPARTMENT OF PLANNING
		FARUT 3 PROPERTY LINES.
		a means of providing an equivalent degree or
health, safety, and welfare as a		Theans of providing all equivalent degree of
	PIN ITEM#2 AROUNE WI	LL EACH BE PROTECTED
BY SPRINKLER HEAV	os on Both Sides of T	HE GLASS, PROVIDING
AN ECOLVEYANT SEP	MEATION PATING TO THE	E REQUIRED HOUR WALL.
	PLAN, ELEVATIONS AND F	
	WINDOWS AND THE SP	
	1 OF THESE WINDOWS	
Note: Please attach any pictures, plans	, or required position statements.	
VERIFICATION BY OWNER	– PETITION IS VALID ONLY IF I	NOTARIZED AND ACCOMPANIED
	Y REQUIRED POSITION STATE	
	of the building. Tenants, agents, contra	
	is submitted with the Petition for Variance	
Man		
Print name of owner	, being duly sworn, I state a	s petitioner that I have read the foregoing
	nd I have significant ownership rights in	the subject building or project
petition, that i believe it to be true, a	nd Thave significant ownership rights in	the subject building of project.
Signature of owner	Su	bscribed and sworn to before me this
	da	te: 9/6/,2
		1/2/12
Notary public	9544	/ commission expires:
WWW.	"OFFICIAL SEAL"	9/11/16

NOTE: ONLY VARIANCES FOR COMMENCERED CODESONRE REQUIRED TO BE NOTARIZED.

Notary Public, State of Illinois

My Commission Expires 09-11-2016

APPLICATION INSTRUCTIONS

- 1. Fill in the owner's information section. It is important to have a complete address and phone number for communication between the applicant and the department.
- 2. Fill in the project description box. Explain what the building project is. (Basement alteration, second floor alteration, two-story addition, etc.)
- 3. If there is an agent working for the owner and the agent is a better contact for information regarding the variance, fill in the agent information area.
- 4. Answer the three questions.
 - 1. State the code and section number with a summary of what the code says. Also, indicate what the nonconforming conditions for the project are. (example: COMM 21.04 minimum stair width is 36 inches. We will have 34 inches of stair width.)
 - 2. State why the rule cannot be satisfied. (example: not structurally feasible)
 - 3. State what will be done to provide an equivalency to the code. These items should be things that relate to the item the variance is being sought for and exceed code requirements.
- 5. Print the Owner's name on the line indicating to do so.
- 6. The owner of the property is required to sign where indicated. If the project is for a one or two family home the form is not required to be notarized. If the project is for a commercial building the form is required to be notarized.

Variance Procedure

- 1. Fill out the variance form.
- 2. If the variance is for a commercial building and is not for an accessibility code contact the fire department so they can fill out a fire department position statement.
- 3. Submit the application and fee to the building inspection department. Also, where applicable, submit the fire department position statement.
- 4. A field inspector may visit the site to verify existing conditions and the completeness of the application.
- 5. If there have previously been at least 5 variances for the same item approved, the variance may be approved on precedence. In this case the applicant will not have to attend a meeting of the building board and will be notified by letter that the variance is approved. The letter will be sent within 7 days after the scheduled meeting.
- 6. In all other cases the variance will be presented to the building board at a monthly meeting. 7 days before the meeting the supervisor will review the variance for approval to be put on the agenda. 5 days before the meeting the secretary will mail out the agenda to the Appeals Board members and to the applicants.
- 7. When a variance is heard by the board the applicant or agent must attend the meeting to answer questions.
- 8. The meeting minutes will be mailed within 7 days after the meeting.



City of Madison Fire Department Position Statement

Owner: Marc Lishin - Campus Core	Project Name: University Based Housing Project with Retail	Owner's Representative: Jeff Zelisko – Antunovich Arch
Address: 2234 W North Ave Chicago, IL 60647	Building Location: 441 N Frances Street Madison, WI	Address: 224 West Huron Street Chicago, IL.60654
Owner Contact: 773-227-2850 P marc@corecamp.us	Building Occupancy or Use: Residential, Mercantile, Parking	Agent Contact: 312-266-1126 P jzelisko@antunovich.com

Rule Being Petitioned: IBC 705.8 Openings in exterior walls

I have read the	application for variance and	recommend: (check	appropriate box)
□ Approval	X Conditional Approval	□ Denial	□ No Comment

- The exterior exposure protection shall be automatic and shall have detection that is acceptable to the City of Madison Fire Department.
- These windows shall not be operable.
- The design shall comply with NFPA 13 or the listing of the TYCO Model WS window sprinkler.
- In the event a structure is built on any of the adjacent properties, that would make the exposure protection system inoperable or no longer maintainable, the affected openings shall be closed up with no indication on the interior that a window existed.

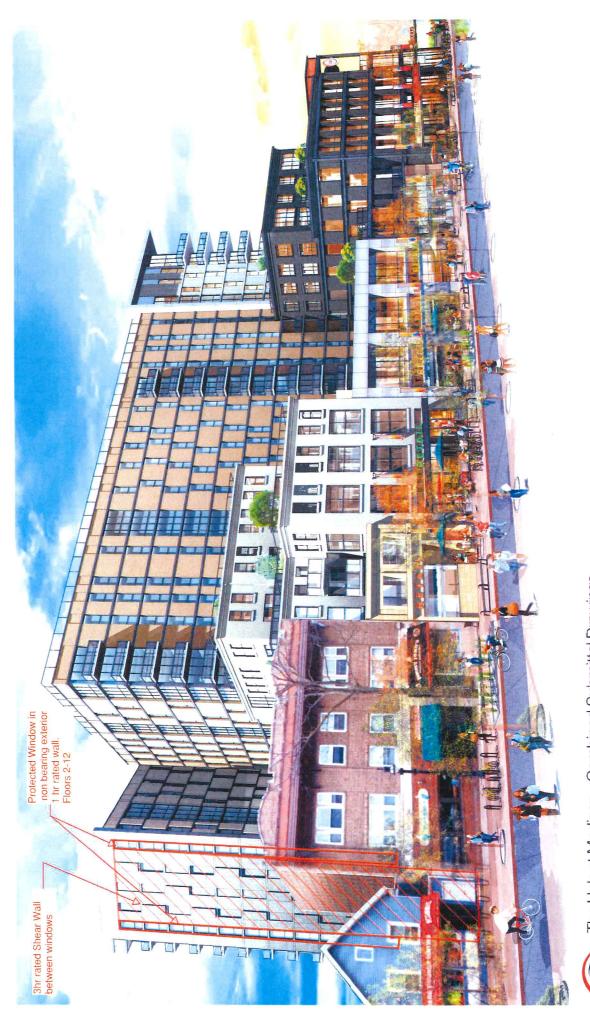
Name of Fire Chief or Designee (type or print) Bill Sullivan, Fire Protection Engineer	
City of Madison Fire Department	Telephone Number 608-261-9658
Signature of Fire Chief or Designee	Date Signed September 6, 2013

5th and 6th Floor Plan

The Hub at Madison - Combined Submittal Drawings

The Hub at Madison Madison, Wisconsin | Core Campus · Muefski Architects · Antunovich Associates

May 22, 2013





hub

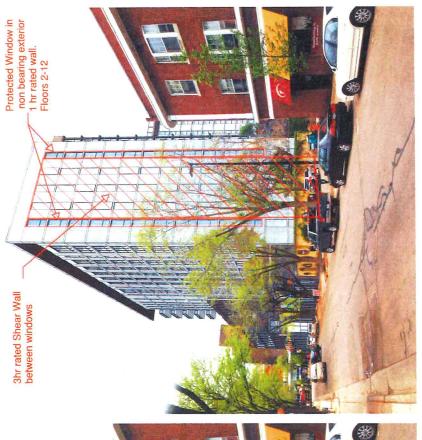
Core Campus

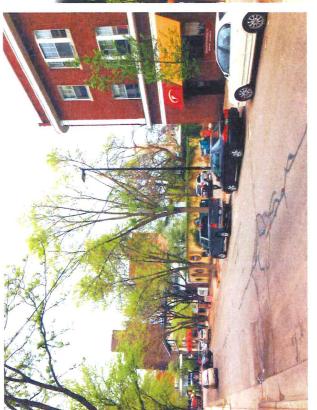
Antumoyich Associates

View Looking Southwest on State Street

Option A - Street View from Frances Street Near Gilman Street









The Hub at Madison - Combined Submittal Drawings

Supplemental Drawing

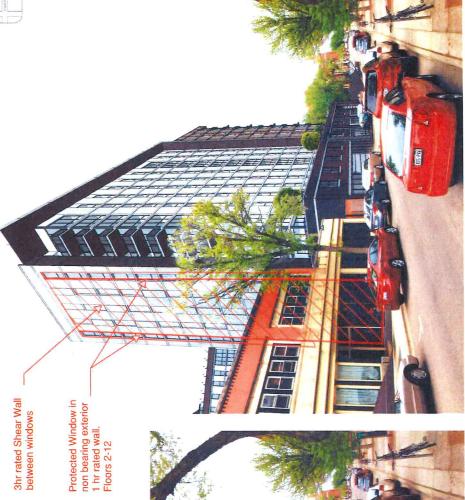
The Hub at Madison Madison, Wisconsin

Core Campus

Mvefski Architects · Antunovich Associates

June 26, 2013









UDC Supplemental Drawing Package #3



705.10 Ducts and air transfer openings.

705.11 Parapets.

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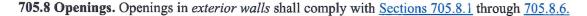


TABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION

FIRE SEPARATION DISTANCE (feet)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREAª
	Unprotected, Nonsprinklered (UP, NS)	Not Permitted
0 to less than 3 ^{b, c}	Unprotected, Sprinklered (UP, S)i	Not Permitted
o to isso many	Protected (P)	Not Permitted
	Unprotected, Nonsprinklered (UP, NS)	Not Permitted
3 to less than 5 ^{d, e}	Unprotected, Sprinklered (UP, S) ⁱ	15%
	Protected (P)	15%
	Unprotected, Nonsprinklered (UP, NS)	10% ^h
5 to less than 10 ^{e, f}	Unprotected, Sprinklered (UP, S)	25%
	Protected (P)	25%
	Unprotected, Nonsprinklered (UP, NS)	15% ^h
10 to less than 15e, f, g	Unprotected, Sprinklered (UP, S) ⁱ	45%
	Protected (P)	45%
	Unprotected, Nonsprinklered (UP, NS)	25%
15 to less than 20 ^{f, g}	Unprotected, Sprinklered (UP, S) ¹	75%
	Protected (P)	75%
	Unprotected, Nonsprinklered (UP, NS)	45%
20 to less than 25 ^{f, g}	Unprotected, Sprinklered (UP, S)	No Limit
	Protected (P)	No Limit
	Unprotected, Nonsprinklered (UP, NS)	70%
25 to less than 30 ^{f, g}	Unprotected, Sprinklered (UP, S)	No Limit
	Protected (P)	No Limit
	Unprotected, Nonsprinklered (UP, NS)	No Limit
30 or greater	Unprotected, Sprinklered (UP, S)	Not Required
	Protected (P)	Not Required

For SI: 1 foot = 304.8 mm.

UP, NS = Unprotected openings in buildings not equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1.

UP, S = Unprotected openings in buildings equipped throughout with an automatic sprinkler system in accordance with <u>Section</u> 903.3.1.1.

- P = Openings protected with an opening protective assembly in accordance with <u>Section 705.8.2</u>.
- a. Values indicated are the percentage of the area of the exterior wall, per story.
- b. For the requirements for fire walls of buildings with differing heights, see Section 706.6.1.
- c. For openings in a fire wall for buildings on the same lot, see Section 706.8.
- d. The maximum percentage of unprotected and protected openings shall be 25 percent for Group R-3 occupancies.

e. Unprotected openings shall not be permitted for openings with a fire separation distance of less than 15 feet for Group H-2 and H-3 occupancies.

- f. The area of unprotected and protected openings shall not be limited for Group R-3 occupancies, with a fire separation distance of 5 feet or greater.
- g. The area of openings in an open parking structure with a fire separation distance of 10 feet or greater shall not be limited.
- h. Includes buildings accessory to Group R-3.
- i. Not applicable to Group H-1, H-2 and H-3 occupancies.

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International Building Code [2009 (Sixth Printing)]

- Chapter 6 Types of Construction
 - SECTION 601 GENERAL
 - SECTION 602 CONSTRUCTION CLASSIFICATION
 - SECTION 603 COMBUSTIBLE MATERIAL IN TYPE I AND II CONSTRUCTION

602.1 General.

602.2 Types I and II.

602.3 Type III.

602.4 Type IV.

602.5 Type V.

602.1 General.

602.2 Types I and II.

602.3 Type III.

602.4 Type IV.

602.5 Type V.

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SECTION 602 CONSTRUCTION CLASSIFICATION

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE $^{\rm a}$, $^{\rm c}$

FIRE SEPARATION DISTANCE = X (feet)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H ^f	OCCUPANCY GROUP F-1, M,S-1 ²	OCCUPANCY GROUP A, B, E, F-2, I, R,S-2 ^R , U ^b
X < 5°	All	3	2	
5 ≤ X< 10	1A	3	2	
	Others	2	1	I
10 ≤ X< 30	IA, IB	2		100 kg
	IIB, VB	1	0	0
	Others	1	1	į d
X ≥ 30	All	0	0	0

For SI: 1 foot = 304.8 mm.

- a. Load-bearing exterior walls shall also comply with the fire-resistance rating requirements of Table 601.
- b. For special requirements for Group U occupancies, see Section 406.1.2.
- c. See Section 706.1.1 for party walls.
- d. Open parking garages complying with Section 406 shall not be required to have a fire-resistance rating.
- e. The fire-resistance rating of an exterior wall is determined based upon the fire separation distance of the exterior wall and the story in which the wall is located.
- f. For special requirements for Group H occupancies, see Section 415.3.
- g. For special requirements for Group S aircraft hangars, see Section 412.4.1.

602.1 General. Buildings and structures erected or to be erected, altered or extended in height or area shall be classified in one of the five construction types defined in Sections 602.2 through 602.5. The building elements shall have a fire-resistance rating not less than that specified in Table 601 and exterior walls shall have a fire-resistance rating not less than that specified in Table 602. Where required to have a fire-resistance rating by Table 601, building elements shall comply with the applicable provisions of Section 703.2. The protection of openings, ducts and air transfer openings in building elements shall not be required unless required by other provisions of this code.

- **602.1.1 Minimum requirements.** A building or portion thereof shall not be required to conform to the details of a type of construction higher than that type which meets the minimum requirements based on occupancy even though certain features of such a building actually conform to a higher type of construction.
- **602.2 Types I** and **II**. Types I and **II** construction are those types of construction in which the building elements listed in Table 601 are of noncombustible materials, except as permitted in <u>Section 603</u> and elsewhere in this code.
- **602.3 Type III.** Type III construction is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of any material permitted by this code. *Fire-retardant-treated wood* framing complying with <u>Section 2303.2</u> shall be permitted within *exterior wall* assemblies of a 2-hour rating or less.
- 602.4 Type IV. Type IV construction (Heavy Timber, HT) is that type of construction in which the exterior walls are of noncombustible materials and the interior building elements are of solid or laminated wood without concealed spaces. The details of Type IV construction shall comply with the provisions of this section. Fire-retardant-treated wood framing complying with Section 2303.2 shall be permitted within exterior wall assemblies with a 2-hour rating or less. Minimum solid sawn nominal dimensions are required for structures built using Type IV construction (HT). For glued-laminated members the equivalent net finished width and depths corresponding to the minimum nominal width and depths of solid sawn lumber are required as specified in Table 602.4.

TABLE 602.4 WOOD MEMBER SIZE

MINIMUM NOMINAL SOLID SAWN SIZE		MINIMUM GLUED-LA	AMINATED NET SIZE
Width, inch	Depth, inch	Width, inch	Depth, inch
8	8	63/4	81/4
6	10	5	101/2
6	8	5	81/4
6	6	5	6
4	6	3	6 ⁷ /x

For SI: 1 inch = 25.4 nm.

- 602.4.1 Columns. Wood columns shall be sawn or glued laminated and shall not be less than 8 inches (203 mm), nominal, in any dimension where supporting floor loads and not less than 6 inches (152 mm) nominal in width and not less than 8 inches (203 mm) nominal in depth where supporting roof and ceiling loads only. Columns shall be continuous or superimposed and connected in an approved manner.
- 602.4.2 Floor framing. Wood beams and girders shall be of sawn or glued-laminated timber and shall be not less than 6 inches (152 mm) nominal in width and not less than 10 inches (254 mm) nominal in depth. Framed sawn or glued-laminated timber arches, which spring from the floor line and support floor loads, shall be not less than 8 inches (203 mm) nominal in any dimension. Framed timber trusses supporting floor loads shall have members of not less than 8 inches (203 mm) nominal in any dimension.
- 602.4.3 Roof framing. Wood-frame or glued-laminated arches for roof construction, which spring from the floor line or from grade and do not support floor loads, shall have members not less than 6 inches (152 mm) nominal in width and have not less than 8 inches (203 mm) nominal in depth for the lower half of the height and not less than 6 inches (152 mm) nominal in depth for the upper half. Framed or glued-laminated arches for roof construction that spring from the top of walls or wall abutments, framed timber trusses and other roof framing, which do not support floor loads, shall have members not less than 4 inches (102 mm) nominal in width and not less than 6 inches (152 mm) nominal in depth. Spaced members shall be permitted to be composed of two or more pieces not less than 3 inches (76 mm) nominal in thickness where blocked solidly throughout their intervening spaces or where spaces are tightly closed by a continuous wood cover plate of not less than 2 inches (51 mm) nominal in thickness secured to the underside of the members. Splice plates shall be not less than 3 inches (76 mm) nominal in thickness. Where protected by approved automatic sprinklers under the roof deck, framing members shall be not less than 3 inches (76 mm) nominal in width.
- **602.4.4 Floors.** Floors shall be without concealed spaces. Wood floors shall be of sawn or glued-laminated planks, splined or tongue-and-groove, of not less than 3 inches (76 mm) nominal in thickness covered with 1-inch (25 mm) nominal dimension tongue-and-groove flooring, laid crosswise or diagonally, or 0.5-inch (12.7 mm) particleboard or planks not less than 4 inches (102 mm) nominal in width set on edge close together and well spiked and covered with 1-inch (25 mm) nominal dimension flooring or ¹⁵/₃₂-inch (12 mm) wood structural panel or 0.5-inch (12.7 mm) particleboard. The lumber shall be laid so that no continuous line of joints will occur except at points of support. Floors shall not extend closer than 0.5 inch (12.7

mm) to walls. Such 0.5-inch (12.7 mm) space shall be covered by a molding fastened to the wall and so arranged that it will not obstruct the swelling or shrinkage movements of the floor. Corbeling of masonry walls under the floor shall be permitted to be used in place of molding.

- 602.4.5 Roofs. Roofs shall be without concealed spaces and wood roof decks shall be sawn or glued laminated, splined or tongue-and-groove plank, not less than 2 inches (51 mm) nominal in thickness, 1 /8-inch-thick (32 mm) wood structural panel (exterior glue), or of planks not less than 3 inches (76 mm) nominal in width, set on edge close together and laid as required for floors. Other types of decking shall be permitted to be used if providing equivalent *fire resistance* and structural properties.
- **602.4.6 Partitions.** Partitions shall be of solid wood construction formed by not less than two layers of 1-inch (25 mm) matched boards or laminated construction 4 inches (102 mm) thick, or of 1-hour fire-resistance-rated construction.
- **602.4.7 Exterior structural members.** Where a horizontal separation of 20 feet (6096 mm) or more is provided, wood columns and arches conforming to heavy timber sizes shall be permitted to be used externally.
- **602.5 Type V.** Type V construction is that type of construction in which the structural elements, *exterior walls* and interior walls are of any materials permitted by this code.

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Spanukler CATEVAR

Design Criteria

The TYCO Model WS Window Sprinklers are UL and C-UL Listed and NYC Approved (MEA 335-01-E) for use as "Specific Application Window Sprinkler" and as open sprinklers for "Outside" use.

These sprinklers are also recognized by Underwriters Laboratories of Canada (ULC), and the Ontario Building Code for use in the Province of Ontario, Canada as providing a two-hour equivalency for a fire separation assembly when installed in accordance with this code.

Area of Use

When acceptable to the Authority Having Jurisdiction and unless modified by a local jurisdictional standard or code mentioned previously, the TYCO Model WS Window Sprinklers may be used in either a sprinklered or unsprinklered building to protect non-operable window openings that are part of a fire separation provided:

- in an interior fire separation, the window sprinklers are installed on both sides of the window in the fire separation (Figure 3A-1),
- in jurisdictions where exterior spatial separation (that is, separation from adjacent space) is defined as protecting an adjacent building from a fire in your building, window sprinklers are installed on the interior side of the building (Figure 3A-2), or
- in jurisdictions where exterior spatial separation is defined as protecting your building from a fire in an adjacent building (that is, exposure protection), open window sprinklers are installed on the exterior side of the building (Figure 3A-3).

System Protection Type

- Interior: Wet Systems
- Outside Exposure: Deluge

Glass Type

In all three cases cited below, each individual pane of the window assembly must be at minimum 6 mm (1/4") thick.

- Non-operable, heat-strengthened, tempered, single-glazed (single pane)
- Non-operable, heat-strengthened, tempered, double-glazed (double pane or insulated); or,
- Non-operable, stronger glass window assemblies.

Type of Window Frame/Mullion Non-combustible Frame with a standard EPDM rubber gasket seal

Vertical joints of glass panes must

be connected by butt-joints using a silicone sealant between the individual panes or by Noncombustible Mullions

Refer to Figures 3B-1 and 3B-2.

Maximum Length of Window Assembly Unlimited

Maximum Height of Window Assembly 13' (3,96 m)

Refer to Figures 3C and 3D.

Maximum Distance Between Window Sprinklers 8' (2,44 m)

Refer to Figures 3B-1 and 3B-2.

Minimum Distance Between Window Sprinklers

6' (1,83 m) unless separated by a baffle or mullion of sufficient depth to act as a baffle.

A mullion will act as a baffle, when in the case of the Pendent Vertical Sidewall, the mullion extends to the back of the sprinkler deflector, and in the case of the Horizontal Sidewall, the mullion extends to the sprinkler wrench flat.

Refer to Figures 3B-1 and 3B-2.

Minimum Distance from Standard Sprinklers

6' (1,83 m) unless separated by a baffle

Sprinkler Location

- Mullioned Glazing Assemblies: Locate window sprinklers within each mullioned glazing segment. Refer to Figure 3B-1.
- Butt-Jointed Glazing Assemblies: Locate window sprinklers on maximum 8' (2,44 m) centers. Refer to Figure 3B-2.

Maximum Distance from Vertical Mullion

4' (1,22 m)

Refer to Figure 3B-1.

Minimum Distance from Vertical Mullions

4" (101,6 mm)

Refer to Figure 3B-1.

Intermediate Horizontal Mullions

Intermediate Horizontal Mullions were not tested with the Model WS Window Sprinkler. Their use is outside the scope of the "Specific Application" Listing for the window sprinklers. Refer to Figure 3B-3.

Deflector Location

Sprinkler Deflectors must be located as described below in order to ensure that the entire surface of the glass window

is covered. Sprinkler Deflectors are positioned with respect to the window frame, not the ceiling.

- Horizontal Sidewall: Locate within the outside edge of the window frame from 1/2" to 4" (12,7 mm to 101,6 mm) away from the glass and 2" ± 1" (50,8 mm ± 25,4 mm) down from the top of the exposed glass. Refer to Figure 3C.
- Pendent Vertical Sidewall: Locate 4" to 12" (101,6 mm to 304,8 mm) from the face of the glass and 3" ± 1" (76,2 mm ± 25,4 mm) down from the top of exposed glass. Refer to Figure 3D.

Minimum Clearance from Face of Glass to Combustible Materials

All combustible materials shall be kept 2" (50,8 mm) from the front face of the glass. This can be accomplished by a minimum 36" (914,4 mm) pony wall or other method acceptable to the Authority Having Jurisdiction.

Escutcheon Assemblies

The Model WS Window Sprinklers can be used with any metallic flush or extended escutcheons, provided the dimensions from the sprinkler deflector to the window frame and glass surface as specified in this data sheet are maintained. These sprinklers are not listed for recessed applications.

Recommended Hydraulic Requirements

The Authority Having Jurisdiction should be consulted to determine the hydraulic requirements for each installation.

Interior Protection Sprinklered Building

Identify which compartmented area has the most hydraulically demanding window sprinklers. Calculate up to the most demanding 46.5 linear feet of Model WS Window Sprinklers on one side of the glazing. The 46.5 linear feet (14,2 linear meters) is based upon 1.2 x the square root of the system area of operation, when the system area of operation is 1500 sq.ft. in accordance with NFPA 13 Light/Ordinary Hazard density curves.

Where the area of Glazing is less than 14.2 linear meters, all window sprinklers on one side shall be calculated.

If an area reduction for quick response sprinklers is utilized, the linear length of the calculated window sprinklers may be reduced, but in no case shall be less than 36 linear feet $(1.2 \times \sqrt{900})$.



