

Performance Alternative Worksheet

- Does the building meet the definition of an existing building? (Section 202) Yes No
- Has the building undergone a structural analysis to support load per Chapter 16 of the Building Code? (1301.4.2) Yes No
- Will the building meet the requirements for means of egress and exit sign illumination per the Fire Code? Yes No
- Will any elevator greater than 25 feet be equipped with Phase 1 and Phase 2 per the Fire Code? Yes No
- If sprinklers and standpipes are both required, is at least on system complying with the Building Code provided? Yes No

[ALL MUST BE YES IN ORDER TO USE CHAPTER 13]

Occupancy Independent Building Characteristics

New Occupancy Type (for unseparated uses, provide evaluation for each occupancy type per 1301.6): _____

Building construction Type: _____

Building Height (Referred to as Item #1) Section 1301.6.1.1

Height, in feet, of building [EBH]: _____

Height, in feet, allowed by Building Code Table 503 and sprinkler increase by 504.2 [AH]: _____

Height, in stories, of building [EBS]: _____

Height, in stories, allowed by Building Code Table 503 and sprinkler increase by 504.2 [AS]: _____

If AH - EBH is a positive number, than CF is +1

If AH-EBH is a negative number, than CF is per Table 1301.6.6(2)

TABLE 1301.6.6(2) CONSTRUCTION-TYPE FACTOR

F A C T O R	TYPE OF CONSTRUCTION									
	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB	
	1.2	1.5	2.2	3.5	2.5	3.5	2.3	3.3	7	

Enter CF Value here: _____

Complete both equations

$$\frac{AH - EBH}{12.5} x CF$$

$$(AS - EBS) x CF$$

Take the lesser of the 2 values, with the maximum value being +10: _____

(Value 1301.6.1)

This information is provided to assist the users of the Existing Building Code of New York State and is not to be considered a replacement to the Uniform Fire Prevention and Building Code

Building Area (Referred to as Item #2) Section 1301.6.1.2

Actual area of the building : _____

Allowable area, the lesser value of Building Code Section 506.1 (increases) or 506.4 (total building): _____

_____ (Value 1301.6.2)

Vertical Openings (Referred to as item #6) Section 1301.6.6

For a one story building, enter a value of +2 for Value 1301.6.6

Determine any unenclosed opening that meets Building Code Section 707. Do not consider these in the evaluation.

Determine the construction factor of the building: _____

TABLE 1301.6.6(2) CONSTRUCTION-TYPE FACTOR

F A C T O R	TYPE OF CONSTRUCTION									
	IA	IB	IIA	IIB	IIIA	IIIB	IV	VA	VB	
	1.2	1.5	2.2	3.5	2.5	3.5	2.3	3.3	7	

Using table 1301.6.6(1), assign a value to every considered vertical opening.

TABLE 1301.6.6(1) VERTICAL OPENING PROTECTION VALUE

PROTECTION	VALUE
None (unprotected opening)	-2 times number of floors connected
Less than 1 hour	-1 times number of floors connected
1 to less than 2 hours	1
2 hours or more	2

Utilize the following formula and enter the lowest value of all vertical openings: _____ (Value 1301.6.6)

Value 6

Travel Distance calculation (Referred to as #13) Section 1301.6.13

When the means of egress is designed markedly over or under that permitted by the Building Code, positive or negative points are created.

Enter the longest travel distance to an exit: _____

Enter the permitted travel distance by the Building Code: _____

Use to lowest value of the following formula: _____ (Value 1301.6.13)

_____ = Value 13

Incidental uses (Referred to as #19) 1301.6.19

The incidental use value is a comparison between the Building Code requirements and level of protection provided or being proposed.

This is the Table from Building Code Section 508:

ROOM OR AREA	SEPARATION AND/OR PROTECTION
Furnace room where any piece of equipment is over 400,000 Btu per hour input	1 hour or provide automatic fire-extinguishing system
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower	1 hour or provide automatic fire-extinguishing system
Refrigerant machinery rooms	1 hour or provide automatic sprinkler system
Parking garage (Section 406.2)	2 hours; or 1 hour and provide automatic fire-extinguishing system
Hydrogen cut-off rooms, not classified as Group H	1-hour in Group B, F, M, S and U occupancies. 2-hour in Group A, E, I and R occupancies.
Incinerator rooms	2 hours and automatic sprinkler system
Paint shops, not classified as Group H, located in occupancies other than Group F	2 hours; or 1 hour and provide automatic fire-extinguishing system
Laboratories and vocational shops, not classified as Group H, located in Group E or I-2 occupancies	1 hour or provide automatic fire-extinguishing system
Laundry rooms over 100 square feet	1 hour or provide automatic fire-extinguishing system
Storage rooms over 100 square feet	1 hour or provide automatic fire-extinguishing system
Group I-3 cells equipped with padded surfaces	1 hour
Group I-2 waste and linen collection rooms	1 hour
Waste and linen collection rooms over 100 square feet	1 hour or provide automatic fire-extinguishing system
Stationary storage battery systems having a liquid capacity of more than 100 gallons used for facility standby power, emergency power or uninterrupted power supplies	1-hour in Group B, F, M, S and U occupancies. 2-hour in Group A, E, I and R occupancies

Identify the above rooms or areas in the building under evaluation. Compare the level of protection provided/proposed and assign values for each subject space:

PROTECTION REQUIRED	PROTECTION PROVIDED						
	None	1 hour	AFSS	AFSS with SP	1 hour and AFSS	2 hours	2 hours and AFSS
2 hours and AFSS	-4	-3	-2	-2	-1	-2	0
2 hours, or 1 hour and AFSS	-3	-2	-1	-1	0	0	0
1 hour and AFSS	-3	-2	-1	-1	0	-1	0
1 hour	-1	0	-1	-1	0	0	0
1 hour, or AFSS with SP	-1	0	-1	-1	0	0	0
AFSS with SP	-1	-1	-1	-1	0	-1	0
1 hour or AFSS	-1	0	0	0	0	0	0

Take the lowest value and provide the value here as Value #19: _____

(Value 1301.6.19)

Remaining Values

For the remaining values, review the building attributes within the building or being proposed based on the occupancy type.