

Fixtures calculated by actual occupancy as noted in table below

Table 403.1 Number of Required Plumbing Fixtures			
Plumbing Fixture	Calculations	Required	Provided
Classrooms:			
Water Closets:	1-50	4	12
Lavatories:	1-50	4	12
Office, lobby, staff room, etc.: Two single occupant toilet rooms provided for adults.			
Water Closets	1-25	2	2
Lavatories	1-25	2	2
Service Sink:	1 Required	1	1

FE - RECESSED FIRE EXTINGUISHER CABINET

APPLICABLE CODES AND REGULATIONS

Building Codes: 2015 International Building Code  
Mechanical Code: 2015 International Mechanical Code  
Plumbing Code: 2015 International plumbing Code  
Fire Code: 2015 International Fire Code  
Electrical Code: 2015 International Electric Code  
Child Care Licensing: Illinois State Day Care Licensing Requirements

PROJECT SUMMARY

The scope of work includes ground up building of a day care center. New construction includes full shell and tenant interior build out..

CHAPTER 3 USE AND OCCUPANCY CLASSIFICATION

Non separated Mixed occupancy B and E Child Day Care

304 BUSINESS GROUP B

304.1 Business group B. Lobby, Director's Office, Pantry, Staff Room etc.  
Business Group B occupancy includes, among other, the use of a building or structure, or a portion thereof, for office, professional or service-type transactions, including storage of records and accounts.

305.2 GROUP E, Day Care Facilities

This group includes buildings and structures or portions thereof occupied by more than five children older than 2 ½ years of age who receive educational, supervision or personal care services for fewer than 24 hours per day.

308.6.1 I-4, CLASSIFICATION AS GROUP E.

A child day care facility that provides care for more than five but not more than 100 children 2 ½ years or less of age, where the rooms in which the children are cared for are located on a level of exit discharge serving such rooms and each of these child care rooms has an exit door directly to the exterior, shall be classified as Group E.

CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

TABLE 506.2 ALLOWABLE BUILDING HEIGHTS AND AREAS

Construction Type V-B with automatic sprinkler

Tenant area	Allowable	Actual Tenant
Day Care E	38,000 SF 1 STORY	12,052 SF
Business B	36,000 SF 1 STORY	12,052 SF
Building Height	Allowable	Actual Tenant
Day Care E	60' 2 Stories	24' 1 story
Business B	60' 3 Stories	24' 1 story

CHAPTER 6 TYPE OF CONSTRUCTION

CONSTRUCTION TYPE: V-B

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)

Primary Structural Frame	0
Bearing Walls, Interior & Exterior	0
Non-bearing interior walls	0
Floor Construction	0
Roof Construction	0

CHAPTER 10 MEANS OF EGRESS

1004 OCCUPANT LOAD

TABLE 1004.1.2

Day Care	35 net
Business	100 gross

FLOOR AREA, NET. The actual occupied area not including unoccupied accessory areas such as corridors, stairways, toilet rooms, mechanical rooms and closets.

Classroom Area	6,483 SF/35 = 185 Occ.
Business Area	1,905 SF/100 = 20 Occ.
Unoccupied Area	3,664 SF = 0 Occ.
	205 Occ.
Total	12,052 SF 205 Occupants

1005 EGRESS WIDTH-

1005.3.2 Minimum required egress width.-

Egress doors:	205 Occ. x 0.2 inches = 41" req'd.
Corridor/lobby	(4) 34" = 136"

1010 DOORS

1010.1.2.1 Doors shall swing in the direction of egress travel where serving a room or area containing an occupant load of 50 or more persons or a Group H occupancy.

1006 NUMBER OF EXITS AND EXIT ACCESS DOORWAYS

TABLE 1006.1 Spaces with one exit or exit access doorway.

1006.2.2.4 Day Care means of egress

Day care facilities, rooms or spaces where care is provided for more than 10 children that are 2 ½ years of age or less, shall have access to not less than two exits or exit access doorways.

1006.2.1 Common path of egress travel shall not exceed 75' for E

1007 Exit and Exit access doorway Configuration

1007.1.1 Two exits or exit access doorways. Where two exits or exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the building or area to be served measure in a straight line between them. Interlocking or scissor stairs shall be counted as one exit stairway.

Exception #2. Where a building is equipped throughout with an automatic sprinkler system in accordance with section 903.3.1.1 or 903.3.1.2, the separation distance of the exit doors or exit access doorways shall not be less than one-third of the length of the maximum overall diagonal dimension of the area served.

1017 EXIT ACCESS TRAVEL DISTANCE

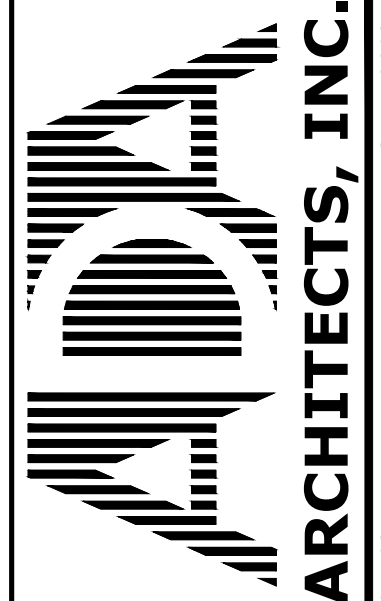
TABLE 1017.2 Maximum Allowed, 250' in E use group with sprinkler system.

1020 CORRIDORS

Table 1020.1 Corridor Fire Resistance Rating- 0 Hours, with sprinkler system per 903.3.1.2.

E Use Group with Sprinkler 0 hour

-----The minimum corridor width in Group E with a corridor having an occupant load of 100 or more: 72 inches



ARCHITECTS, INC.  
Lakewood, Ohio 44107  
17710 Detroit Avenue  
Phone (216) 521-5134 Fax (216) 521-4824  
www.aadarchitects.cc

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REVISIONS

#	DATE	TYPE	PERMIT & BID
1	07/14/17		
2			
3			
4			
5			
6			
7			
8			
9			

EGRESS/  
EVACUATION PLAN

DATE 07/14/17

JOB NO. 17150

A-0.1

SHEET NO.