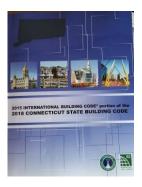


Office of Education and Data Management Fall 2018 Career Development Seminar

November 2018

Above Ceiling Inspections

Presented by Joseph J. Summers, MCP, CBO, Senior Project Inspector, 4LEAF



2018 CT State Building Code books are available

Online Governmental Consensus Vote (OGCV) Cdpaccess.com

Opens approximately Nov. 15-30

Your vote does count

OEDM- Fall 2018 Career Development

Defended to
Reference Code:
2018 CT State Building Code
2015 IBC
2015 IMC
2015 IPC 2017 NEC
2017 NEC
4
Objectives:
Identify key building elements that require
inspections above the ceiling.
Review codes and other standards that should
be referenced during above ceiling inspection process.
process.
• Discuss inspection related issues.
S
Milest are we doing?
What are we doing?
 Reinspection of all the rough-ins and the grid lay-out of the ceiling
Check for approved inspections from
plumbing, mechanical, electrical, fuel gas, sprinkler, framing and fire marshal if required
ope.,eg andearonaeqaea



ls	this	а	Rea	uired	Ins	pection	1?

110.3.8 Other inspections. In addition to the inspections specified in Sections 110.3.1 through 110.3.7, the building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the department of building safety.

7

Access for Inspection

- 110.5 Inspection requests.
- It shall be the duty of the holder of the building permit or their duly authorized agent to notify the building official when work is ready for inspection.
- It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.

8

Reference Codes and Standards

- IBC section 808 ACOUSTICAL CEILING SYSTEMS
 - Installed per manufactures installation instructions [808.1.1]
 - Installed in accordance with ASTM C635 & C636 [808.1.1.1]



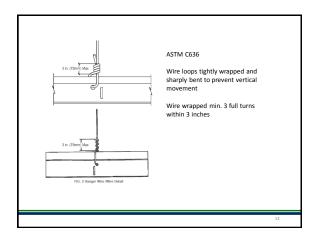
Reference Codes and Standards

- ASTM C635/C636
 - Main runners supported max. 4'-0" on center
 - Hanger wires shall be min. 12 ga
 - Max. 1 in 6 out of plumb
 - Wires shall not press against ducts or pipes

10

Reference Codes and Standards

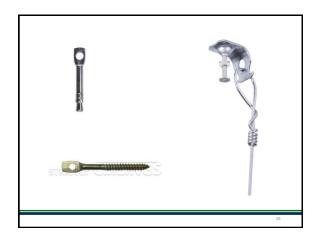
- ASTM C635/C636
 - Three turns in three inches
 - Bottom of hanger wires cut close or bent upwards





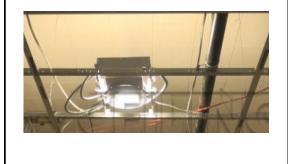












17

NEC 300.11(A) Raceways, cable assemblies, boxes, cabinets and fittings shall be securely fastened in place.

NEC 300.11(B) Wiring Systems Installed Above Suspended Ceilings. Wire that do not provide secure support shall not be permitted as sole support.

Independent support wires shall be secured at both ends.





Cables and raceways shall not be supported by ceiling grids.

Fire-Rated Assemblies. (NEC 300.11(B)(1))

Shall not be secured to , or supported by, the ceiling assembly, including support wires.

Independent support wires shall be distinguished by color, tagging, or other effective means from those that are part of the fire-rated design.

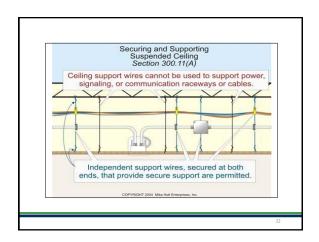
20

Non-Fire-Rated Assemblies. (NEC 300.11(B)(2))

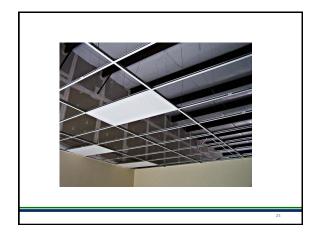
Shall not be secured to , or supported by, the ceiling assembly, including support wires.

Independent support wires shall be distinguished by color, tagging, or other effective means from those that are part of the fire-rated design.





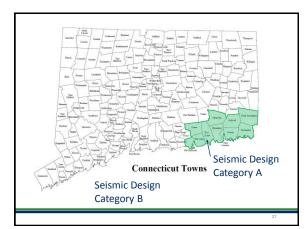






When is Seismic Bracing **NOT** Required?

- ASCE 7 (2010) 13.1.4 The following nonstructural components are exempt from the requirements;
 - Mech & Elec components in SDC B
 - * Mech & Elec components in SDC C with $I_p \\ \leq 1.0$





Is Sway Bracing required for Automatic sprinkler systems?

- Only required if SDC C or worse
 - NFPA 13-2010 9.3 refers back to the building code and AHJ
 - IBC 1613.1 SDC determined in accordance with IBC section 1613 or ASCE 7

78

Is Sway Bracing required for Automatic sprinkler systems?

• ASCE 7-2010 – SDC A & B exempt from the requirements

29

When is Seismic Bracing Required?

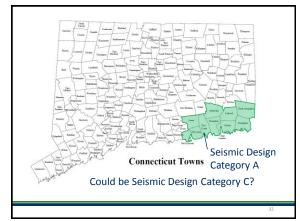
- Seismic Design Category C
- Risk Category IV [IBC 1604.5]
- Component Importance Factor (I_p) > 1.0 [ASCE 7 13.1.3]



When is Seismic Bracing Required?

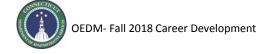
- Fire protection sprinkler systems
- Egress stairways
- Toxic, highly toxic, or explosive substances with qty. > than permitted
- Risk Category IV structure, needed for continued operation of the facility.

31



How did we get to Seismic Design Category C?

- Risk Category IV, Table 1604.5
- Determine the MCE Spectral Acceleration value for the Municipality. Appendix N
- Refer to Table 1613.3.5(1) and Table 1613.3.5(2)



Exam	la	e

- Municipality: Ashford
- Obtain MCE Spectral Acceleration values from Appendix N
- Public safety Complex

MCL Spectral Manual Design Wind Speeds, V _e (mph) Wind Borne Debris Regions Regions Speeds, V _e (mph) Speeds, V _e	Hurricane-Prone Regions
	P. P.
Nak Col	Hurrican
Andover 30 0.176 0.063 120 130 140 93 101 108	Ye
Ansonia 30 0.195 0.064 115 125 135 89 97 105	Ye
Ashford 35 0.173 0.063 120 130 140 93 101 108	Ye
Avon 35 0.181 0.064 110 120 130 85 93 101	Ye
Barkhamsted 40 0.177 0.065 110 120 125 85 93 97	Ye
Beacon Falls 30 0.192 0.064 115 125 135 89 97 105	Ye

- $S_s = 0.173, S_1 = 0.063$
- Public safety Complex would be a Risk Category IV structure as per Table 1604.5



	TABLE 1804.5 RISK CATEGORY OF BUILDINGS AND OTHER STRUCTURES
RISK CATEGORY	NATURE OF OCCUPANCY
I	Smilings and other threshees that represent a low hazzed to hazzen life in the event of failure, including but not lime * Agricultural facilities: * Cuttain temporary facilities: * More transpare facilities:
H	Buildings and other structures except those listed in Risk Categories L.III and IV.
ш	Scaling an about members for reporting a relational form for the same in the dress are follows, scalingly and installed in a constant for the same in the constant form of the same in the
rv	Bedding an electron review designated on consolid ficilities, unduling laws trained to: - (1-sep) 2. response hosting supery or company stress findings. - (2-sep) 2. response hosting supery or company stress findings. - (3-sep) 2. response hostings consolidated and appears assets and eller ficilities repost to response hostings. - (3-sep) 2. response hostings reposition, command result of appearsing content and eller ficilities repost to response hostings repost to response hostings repost to response hostings repost to response hostings repost the repost the response hostings repost the response hostings repost the response hostings repost the response hostings repost the repost the response hostings repost the repost the response hostings repost the repost the repost the repost the response hostings repost the repost th

Buildings and other structures designated as essential facilities, including but not limited to:

- Group I-2 occupancies having surgery or emergency treatment facilities.
- Fire, rescue, ambulance and police stations and emergency vehicle garages.
- Designated earthquake, hurricane or other emergency shelters.
- Designated emergency preparedness, communications and operations centers and other facilities required for emergency response.

		RISK CATEGORY	
VALUE OF S ₂₀	iorii		IV.
S ₁₀ < 0.167g	A	A	A
$0.167g \le S_{tot} < 0.33g$	В	В	c
0.33g≤S _{2x} <0.50g	c	c	D
0.50g ≤ S _{tol}	D	D	D
VALUE OF S _{et} S _(x) < 0.067g	lors A	RISK CATEGORY III Å	N/
0.007g 2.3 ₂₂ < 0.153g	5	5	· ·
0.133g ≤ S ₁₀ < 0.20g	С	С	D
0.20g ≤ S _{Cr}	D	D	D



1613.3.5 - Each building and structure shall be assigned to the more sever *seismic design category.*

Public Safety complex in Ashford shall be designed to Seismic Design Category C

ASTM E580 – ceilings < 1,000 sf are exempt from lateral force bracing requirements

40

Special Inspections

- Required for Seismic Design Category C
- For the following plumbing, mechanical and electrical components
 - Anchorage of electrical equipment for emergency and standby power

41

- Installation and anchorage piping systems, ductwork and equipment carrying hazardous materials
- Vibration isolation systems, if <1/4 inch between equipment support and restraint.
- Where automatic sprinklers installed, all mechanical and electrical equipment shall be braced.



Basic Installation Requirements (SDC C)

- Minimum 7/8" wall molding
- Suspension system must not be attached to the wall molding
- Minimum 3/8" clearance on all sides
- Minimum 3/8" overlap of the suspension system on the wall molding

43

Basic Installation Requirements (SDC C)

- Ends of main beams and cross tees must be tied together to prevent their spreading
- · Safety wires required on light fixtures

44

Armstrong Ceiling SEISMIC RX® APPROACHES TO CATEGORY C INSTALLATIONS Seismic Rx Code Compliant Solutions and Benefits (ESR-1308) Most code requirements Elimination statistice trans Elimina



Totaler ten X Harper Was

Armstrong Ceiling

Cloud ceilings installed in Seismic Design Categories A, B, and C do not require lateral force bracing.

Ceilings designed to allow movement and designed to resist minimal seismic forces.

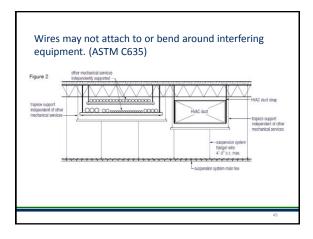
Grid ends on all four walls must be free to move

47

Armstrong Ceiling

Closure angle with a supporting shelf < 7/8 inch, perimeters runners must be supported by vertical hanger wires within 8 inches from the wall, or proprietary solutions





Light Fixtures in Seismic Design Category C [ASTM E580]

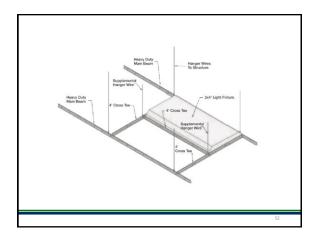
- Positively attached to the grid by at least 2 connections
- Clamping devices for surface fixtures, safety wires required

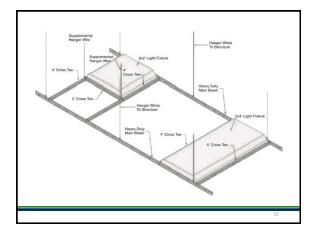
50

Light Fixtures in Seismic Design Category C [ASTM E580]

- ≤ 10# One #12 gage hanger wire from housing to structure above, wire may be slack
- < 56# Two #12 gage hanger wires from fixture housing to structure above, wires may be slack
- ≥ 56# Independent support from the structure above by approved hanger wires

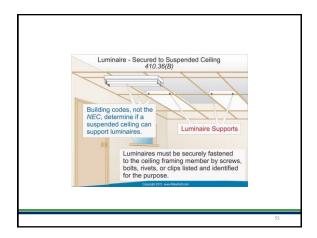


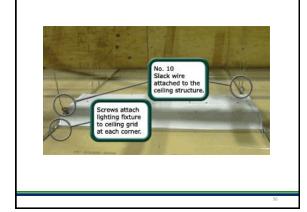




Light Fixtures in Seismic Design Category C [ASTM E580]

- Pendent-hung fixtures supported, minimum one #9 gage wire or other approved support
- Rigid conduit is not permitted for the attachment of fixtures





Mechanical in Seismic Design Category C [ASTM E580]

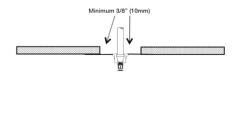
- Flexibly mounted services
 - ≤ 20# must be positively attached to runners
 - < 56# Two #12 gage hanger wires, wires may be slack
 - ≥ 56# require direct support from the structure

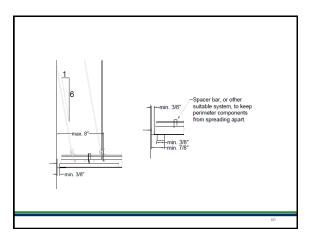
OEDM- Fall 2018 Career Development

- Flexible sprinkler hose fittings, air terminals or other services weighing > 20 lbs. but < 56 lbs. shall have two #12 ga safety wires and positively attached to the ceiling suspension runners
- Flexible sprinkler hose fittings, air terminals or other services weighing > 56 lbs. shall be supported directly from structure above

8

All ceiling penetrations must have a 3/8-inch min. clearance on all sides







Ceiling may not provide lateral support to partitions

Partitions attached must use flexible connections to avoid transferring force to the ceiling





Ceiling weight must be 2.5# per square foot or less (includes members, panels, fixtures, air terminals, sprinklers)	
Ceilings > 2.5# per square foot shall follow the requirements for SDC D, E and F	
We will not go into these requirements	
64	
]
How do we get to a research report?	
104.11 Alt. materials, design and methods of construction and equipment. Shall be approved by the building official.	
104.11.1 Research reports. Where necessary to assist in the approval of materials or assemblies not specifically provided in this code.	
65	
	7
What are some of the testing agencies	
What are some of the testing agencies	
ICC-ES (www.icc-es.org)	
Intertek (www.Intertek.com)	
££	
DD	J





ARMSTRONG WORLD INDUSTRIES, INC. POST OFFICE BOX 3001 LANCASTER, PENNSYLVANIA 17604

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, and 2009 International Building Code[®] (IBC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

 The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Interior finish
- Fire resistance
- Structural
 2.0 USES

The Worthington Armstrong Venture (WAVE) ceiling framing systems described in this report are suspended, exposed framing systems of ceiling assemblies used in fire-resistance-rated and nonfire-resistance-rated construction for interior applications.

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4.0 DESIGN AND INSTALLATION

4.1 General:

The suspended ceiling framing system must be installed in accordance with this report and the manufacturer's published installation instructions. The suspended ceiling framing system must be installed in accordance with the 2015, 2012, and 2009 IBC Sections 808, 1613 and 2506.2.1 for ceiling systems up to 4 psf (19.5 kg/m²).



40	Onesi	al Inc	nac	tion

4.9 Special inspections: Suspended ceilings in Seismic Design Categories C, D, E and F are subjected to periodic special inspections during the installation of the suspended ceiling systems and their anchorage in accordance with the following requirements:

- anchorage in accordance with the following requirements:
 For installations in accordance with Section 4.2 of this report, special inspection must be conducted as indicated in 2015 IBC Sections 1704.3, 1704.5, 1705.1 and 1705.13.2, 2012 IBC Sections 1704.3, 1704.5, 1705.1 and 1705.13.2, 2012 IBC Sections 1704.3, 2009 IBC Section 1704.15, faters 3 of Section 1708.4, as applicable, For installation in accordance with Section 4.4.1 of this report, special inspection must must be in compliance with the following: Section 11.13.9, Item 2, of ASCE 7.0 for the 2015 and 2012 IBC (Section 173.5.6.2.2 in) of ASCE 7.0 and 2009 IBC Section 1705.4.2 for installations, and 2009 IBC Section 1705.4.2 for installations, section 11.3.0.2.2 (ii) of ASCE 7.0.2 for installations are supplicable.
- The special inspector must verify that the ceiling framing systems are as described in this report, and comply with the this report and the approved construction documents.
- A statement of special inspection must be provided as required by 2015 and 2012 IBC Section 1704.3 (2009 IBC Sections 1705.2 and 1705.3 for the 2009 IBC).

Check if there are any rated assemblies in the area

- Draftstopping requirements?
- · Firestopping requirements?
- · Are special inspections required?

3M PRODUCTS RECOMMENDED FOR USE WITH **CPVC PIPE:**

3M™ Fire Barrier Sealant IC 15WB+

3M™ Fire Barrier Water Tight Sealant 3000 WT

3M™ Fire Barrier Water Tight Sealant 1000 NS

3M PRODUCTS NOT RECOMMENDED FOR USE WITH **CPVC PIPE:**

3M™ Fire Barrier Sealant CP25WB+

3M™ Fire Barrier Sealant 1003 SL

3M[™] Fire Barrier Sealant FD 150+ 3M[™] Fire Barrier

Sealant 2000+

3M™ Fire Barrier Sealant 2000

3M™ Fire Block Sealant FB 136







702 7	Marking	and id	lentification
/03./	iviarking	and id	ientification

Where there is an accessible concealed floor, floor-ceiling or attic space, fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling in the concealed space. Such identification shall:

76

703.7 Marking and identification (cont.)

- Be located within 15 feet (4572 mm) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition.
- Include lettering not less than 3 inches (76 mm) in height with a minimum 3/8-inch (9.5 mm) stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," or other wording.







79

Have fire and smoke dampers been tested and approved and properly labeled? [717.4]

Access points permanently identified on the exterior

Labeling lettering at least ½" high

Reading FIRE/SMOKE DAMPER, SMOKE DAMPER or FIRE DAMPER

80

Use of NM Cable? [334]

Types III, IV and V construction. Cables shall be concealed within walls, floors, or ceilings that provide a 15-minute thermal barrier.

Not permitted to be exposed in dropped or suspended ceilings in other than one- and two-family and multifamily dwellings [334.12(A)(2)]



Use	of	NM	Cab	le?	[334]	
-	٠.				[]	

2017 NEC – Not permitted to be exposed <u>within</u> <u>a dropped</u> or suspended <u>ceiling cavity</u> in other than one- and two-family and multifamily dwellings.

82

IS NM Cable permitted above the suspended ceiling in this situation?



...

Is it permitted if a Group R?

Is it permitted if a Group I?

The clarification of NM cable above suspended ceilings was introduced in the 2002 NEC.

DEF	INIT	ION:
DLI		

Dwelling Unit (NEC) – A single unit, providing complete and independent living facilities for one or more persons, including permanent provisions for living, sleeping, cooking, and sanitation.

Multifamily Dwelling – A building that contains three or more dwelling units.

85

RESIDENTIAL:

Boarding Houses (transient)
Congregate Living Facilities
Hotels
Motels
Apartment Houses
Boarding Houses (nontransient)
Convents
Dormitories

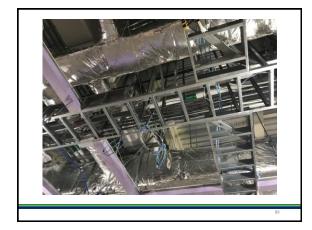
86

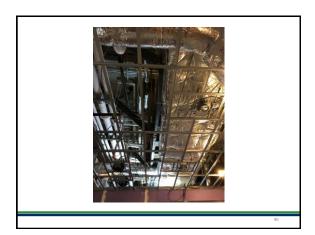
RESIDENTIAL (cont.):

Fraternities and sororities Live/Work units Monasteries Vacation timeshare properties Lodging houses























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TECHNICAL DATA

COIN® QUICK
RESPONSE UPRIGHT
SPRINKLER VK950
SPECIFIC APPLICATION

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 569-818-1680 Email: techsvcs@vikingcorp.com
Visit the Viking website for the latest edition of this technical data page: www.vikinggroupinc.com

2. LISTINGS AND APPROVALS

CLUSTINGS AND APPROVALS

CLUSTINGS Chapter ("Mile Collegory ("Mile")

CLUSTINGS ("Approved The Approved The A

98

Concealed space limitations

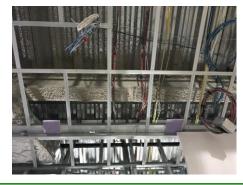
- For open truss construction and non-combustible filled solid or composite wood joists
- Draft curtain required to confine heat to an area of 1,000 sf
- Shall be minimum third the depth or 8", whichever is greater
- Constructed of at least ¼" plywood
- Maximum height of space is 60"
- Minimum height is 6"



Temporary Electrical Installations

- Temporary electric power and lighting installations shall be permitted during the period of construction, remodeling, maintenance, repair, or demolition of buildings, structures, equipment, or similar activities [NEC 590.3(A)]
- Temporary wiring shall be removed immediately upon completion of construction or purpose for which the wiring was installed. [NEC 590.3(D)]

100



101

Concealed fittings and equipment





Fire Resistance Rated Floor/Ceiling Assembly

711.2.5 Ceiling panels. Where the weight of layin ceiling panels, used as part of fire-resistance-rated floor/ceiling or roof/ceiling assemblies, is not adequate to resist an upward force of 1 pound per square foot (48 Pa), wire or other approved devices shall be installed above the panels to prevent vertical displacement under such upward force.

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Fire-Resistance Rated Ceilings 2-Hour Fire-Resistance-Rated Floor-Ceiling Assembly

- Hanger wires located at all four-corners of light fixtures
- Next to each main runner splice



Fire-Resistance Rated Ceilings	
	,
	-
106	
Flexible Air Connectors FLEXIBLE AIR CONNECTOR. A conduit for	
transferring air between an air duct or plenum and an air terminal unit or between an air duct or	
plenum and an air inlet or air outlet. Such conduit is limited in its use, length and location.	
(IMC Definitions)	
107	
	1
Flexible Air Connectors	
Shall be tested in accordance with UL 181 as Class 0 or Class 1 (IMC 603.6.2)	
Air connectors shall not be greater than 14 ft in length (IMC 603.6.2.1)	
Shall not pass through any wall, floor or ceiling (IMC 603.6.2.2)	
, , , , , , , , , , , , , , , , , , , ,	



Flexible Ductwork

Shall be tested in accordance with UL 181, Class 0 or 1 (IMC 603.6.1)

Shall not be limited in length (IMC 603.6.1.1)

Air temperature < 250°F (IMC 603.6.3)

Repair torn or damaged jackets with tape listed/labeled to UL 181B.

109

Flexible Ductwork

Internal core penetrated, replace or treat as a connection.

Install ducts fully extended.

Do not install in the compressed state or use excess length, increases friction loss.

110

What is the difference between an Air Duct and Air Connector?

Both Air Ducts and Air Connectors are tested per the UL 181 standard. Air Ducts are required to pass fifteen (15) UL 181 tests whereas an Air Connector is only required to pass twelve (12) tests. Air Connectors are not required to pass UL-181 impact, small scale flame penetration or impact tests. As a result, Air Connectors can only be installed in lengths of up to 14 feet. There are no installation length restrictions on Air Ducts.



How can I tell the difference between an air duct and air connector?

In many cases Air Ducts and Air Connectors look similar in appearance. The only way to truly distinguish between the two products is to examine the Iabel on the product. The words "Air Duct" or "Connector" will also be specifically referenced on the label (see blue arrow below).

FYI – Air Connectors can be produced with or without fiberglass insulation and vapor-barrier

112

Air Connector will have a circle within the label



113

An Air Duct has a rectangle or square within the label.

☐ TYPE:MHP ☐

MH 11637D 🔲



AIR DUCT CLASS 1 FORM A ISSUE NO.566,577

SEE INSTRUCTION SHEET FOR PROPER INSTALLATION

MEETS REQUIREMENTS OF UL-181 STANDARD
FLAME SPREAD <25 SMOKE DEVELOPED <50

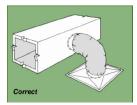


Flexible	Ductwork
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Manufactures follow the Flexible Duct Performance & Installation Standards as published by the Air Diffusion Council (www.flexibleduct.org)

115

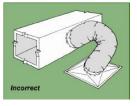
Flexible Ductwork



Minimum duct length and bend radius reduces pressure drop and improves airflow.

116

Flexible Ductwork



Excess length and tight bend radius increases pressure drop and reduces airflow.



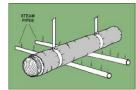
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The bend radius at the center line of ducts shall be equal to or greater than one duct diameter

118

Flexible Ductwork

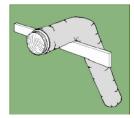


Avoid contact with metal fixtures, water lines, or conduits.

Do not install near hot equipment

119

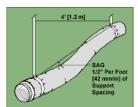
Flexible Ductwork



Ducts shall not be crimped against joist or truss members, pipes, wires, etc.



Flexible Ductwork



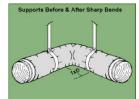
Care shall be taken to minimize sagging or snaking of the duct between supports.

Shall be supported ≤ 4

Maximum centerline sag is ½" per foot between supports

121

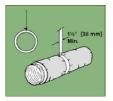
Flexible Ductwork



Long horizontal duct runs with sharp bends shall have additional supports before and after the bend, approx. one duct diameter

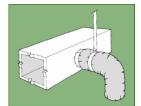
122

Flexible Ductwork



Hangers or saddle material in contact with duct shall of sufficient width to prevent any restriction and not less than 1 ½" wide

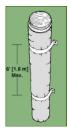




Support between metal connection and bend

124

Flexible Ductwork

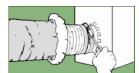


Vertically installed ducts shall be stabilized by straps at a max 6 ft on center

Shall not be used for vertical risers serving more than two stories in height.

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Flexible Ductwork



Slide at least 1" of core over fitting.

Seal core ≥ 2 wraps of duct tape. Secure connection with clamp over tape and core



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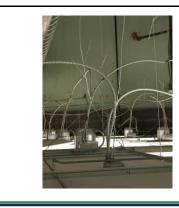


Pull insulation over core, tape jacket with ≥ 2 wraps of duct tape, or use a clamp

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Above Ceiling Inspection Checklist

- Check for approved inspections from plumbing and/or electrical and/or fire dept. inspectors if required (if there is ANY plumbing or electrical in this ceiling, it is required)
- Check if there are any rated walls in this area.
- · If rated, is there proper labeling

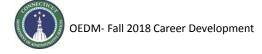
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• If rated, are all penetrations sealed by approved fire or smoke stop/block methods



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- If rated, is top of wall properly sealed by approved fire or smoke stop methods
- If rated, does a duct pass through, is wall opening around duct properly sealed by approved fire or smoke stop/block method
- If rated, does duct have fire or smoke damper in place, has damper been tested and approved, is damper labeled



	Check for acoustical sealant if required at top of walls
•	 Although not necessarily required, check for "independent" support of any MC, lighting, piping or embeds
•	Although not necessarily required, check for labeling of piping
	 Check for "independent" support of any ductwork,
	speakers, and/or diffusers
	Check for required access panels
•	Check any required insulation of duct work
	133
	Check if this a grease duct
	If grease duct, has welding been tested and
	approved
	If grease duct, are all required cleanouts in
	place
	If grease duct, has fire wrap been inspected
	and approved
	Check flexible duct, does it meet length and
	flow requirements, is it secured
	 Check grid support of drop ceiling 3 twists in 3"
	134
	Check framing construction of hard ceiling against
	approved shop drawings
	If hard ceiling, is access panel framing provided
	Check for covers on any electrical junction boxes
	Check for any required column, beam or decking fireproofing patching
	Check for combustible materials in a non-combustible construction
	Check to see that all temp. utilities have been
	removed



Questions?		
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