

FIGURE A.3.3.33 Styles of Hoods.

Table A.3.3.37 Types of Construction Assemblies Containing Noncombustible, Limited-Combustible, and Combustible Materials

	Classifications for Determining Hood and Grease Duct Clearance*									
Type of Assembly	Non- combustible	Limited- Combustible	Combustible							
Wall assemblies	***************************************									
Brick, clay tile, or concrete masonry products	X									
Plaster, ceramic, or quarry tile on brick, clay tile, or concrete masonry products	X									
Plaster on metal lath on metal studs	X									
Gypsum board on metal studs		X								
Solid gypsum board†		X								
Plaster on wood or metal lath on wood studs			X							
Gypsum board on wood studs			X							
Plywood or other wood sheathing on wood or metal studs			X							
Floor-ceiling or roof-ceiling assemblies										
Plaster applied directly to underside of concrete slab	X									
Suspended membrane ceiling										
With noncombustible mineral wool acoustical	X									
material										
With combustible fibrous tile			X							
Gypsum board on steel joists beneath concrete slab		X								
Gypsum board on wood joists			X							

- (1) Wall assembly descriptions assume same facing material on both sides of studs.
- (2) Categories are not changed by use of fire retardant-treated wood products.
- (3) Categories are not changed by use of Type X gypsum board.
- (4) See definitions in 3.3.37 of combustible material, limited-combustible material, and noncombustible material.
- *See clearance requirements in Section 4.2.
- †Solid gypsum walls and partitions, 50.8 mm (2 in.) or 57.15 mm (21/4 in.) thickness, are described in the Gypsum Association publication Fire Resistance Design Manual.



2014 Edition

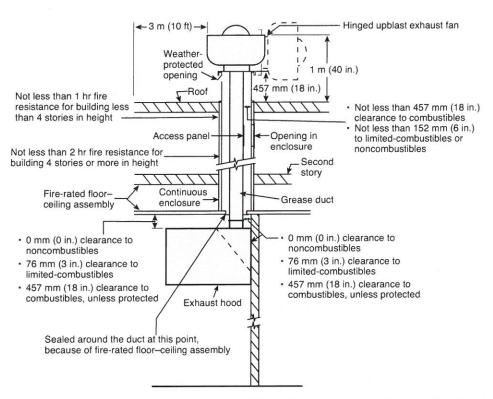


FIGURE A.4.2(a) Typical Section View for Building with Two Stories or More with Fire-Rated Floor-Ceiling Assembly.

- A.4.1.6 When solid fuel is burned in cooking operations, increased quantities of carbon, creosote, and grease-laden vapors are produced that rapidly contaminate surfaces, produce airborne sparks and embers, and are subject to significant flare-ups. Also, solid fuel cooking requires fuel storage and handling and produces ash that requires disposal. For these reasons, solid fuel cooking operations are required to comply with Chapter 14.
- A.4.1.9 The authority having jurisdiction can exempt temporary facilities, such as a tent, upon evaluation for compliance to the applicable portions of this standard.

Although it might not be practical to enforce all requirements of this standard in temporary facilities, the authority having jurisdiction should determine that all necessary provisions that affect the personal safety of the occupants are considered.

- A.4.2 See Figure A.4.2(a) through Figure A.4.2(h) for clarification of the appropriate clearances required in Section 4.2.
- A.4.2.4.2 The intent of this paragraph is to maintain the systems and their function in accordance with the requirements of the edition of NFPA 96 under which the systems were designed and installed.
- A.4.3.2 Protection should be steel outer casing [minimum 0.46 mm (0.018 in.) thick] or equivalent.
- A.4.8.1.1 The provisions of 4.8.1.1 do not require inherently noncombustible materials to be tested in order to be classified as noncombustible materials. [5000: A.7.1.4.1]
- A.4.8.1.1(1) Examples of such materials include steel, concrete, masonry and glass. [5000: A.7.1.4.1.1(1)]

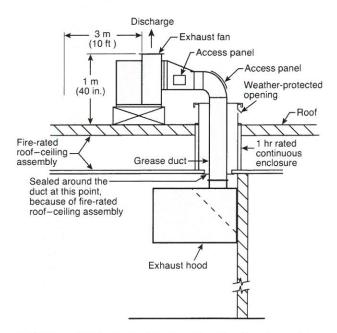


FIGURE A.4.2(b) Typical Section View for One-Story Building with Fire-Rated Roof-Ceiling Assembly. (Clearances given in Figure A.4.2(a) apply also to this drawing.)

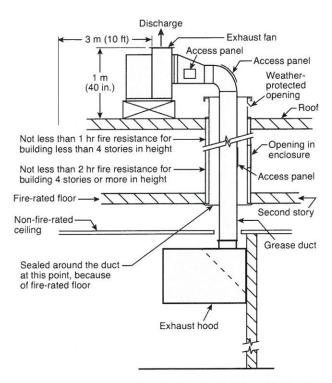
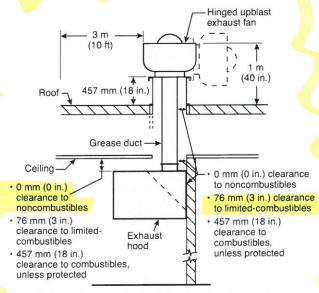
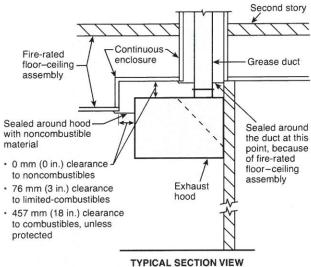


FIGURE A.4.2(c) Typical Section View for Building with Two Stories or More with Non-Fire-Rated Ceiling and Fire-Rated Floor. (Clearances given in Figure A.4.2(a) apply also to this drawing.)

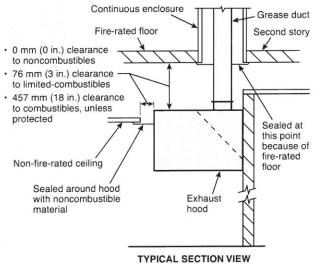


Note: Enclosure is not required in 1-story building where roof ceiling assembly does not have a fire resistance rating.

FIGURE A.4.2(d) Typical Section View for One-Story Building Without Fire-Rated Roof-Ceiling Assembly.



(For building with 2 or more stories with fire-rated floor-ceiling assembly)



(For building with 2 or more stories with non-fire-rated ceiling and fire-rated floor)

FIGURE A.4.2(e) Detail Drawings Showing Hoods Penetrating Ceilings.

- A.5.1.4 Welding is one acceptable method.
- **A.5.3.4** Figure A.5.3.4 provides examples of exhaust hood assemblies with integrated supply air plenums.
- **A.5.4** Examples of acceptable materials for hoods include steel and stainless steel.

Additionally, many health officials prohibit galvanized steel in hoods, as does NSF/ANSI 2.

A.6.2.2.1 Appliances that produce high flue gas temperatures include deep-fat fryers, upright or high broilers, and salamander broilers.

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				NRC -	+ CAC =	Tota	(4)	Light Reflect	8	00	Cert	0		·mum	6 /^.	No.		Rec	Rec	30-) War
Clean Ro	om™ FL Fiel	d Pane							Bio- Block	Humi- Guard+			in the later	— Dura	bility —					
15/16" or 1-1/2" Square Lay-in	1, 6, 7	1715	24 x 24 x 3/4"	0.55	35	-	Class A	0.79	•	•	•	•	•	•	•	•	•	•	-	•
	1, 6, 7	1716	24 x 48 x 3/4"	0.55	35	-	Class A	0.79	•	٠	•	•	•	•	٠	•	•	•	-	•
Clean Ro	om™ FL Bor	der Par	el																	
15/16" or 1-1/2" Square Lay-in	1, 6, 7	1720	24 x 24 x 5/8"	N/A	35	-	Class A	0.79	•	•	_	•	•	•	•	•	•	Std	_	•
	1, 6, 7	1721	24 x 48 x 5/8"	N/A	35	-	Class A	0.79	•	•	-	•	•	•	•	•	•	Std	-	•
	1, 6, 7	Other Size Panels	W: 24" / L: 24" - 48" 5/8" Thick	N/A	N/A	-	Class A	0.79	•	٠	-	•	•	•	•	•	•	Std	-	•
Clean Ro	om™ VL Unp	erforat	ed																	
15/16" or 1-1/2" Square Lay-in	1,7	868	24 x 24 x 5/8"	N/A	40	-	Fire Guard™	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
	1,7	870	24 x 48 x 5/8"	N/A	40	9	Fire Guard	0.80	•	•	-	•	•	•	•	•	•	Std	-	•
VL Perfo	rated (Not fo	r Clean	Rooms)																	
15/16" or 1-1/2" Square Lay-in	1	869	24 x 24 x 5/8"	0.55	35	-	Fire Guard	0.78	•	•	-	-	•	•	•	•	•	Std	-	•
	1	871	24 x 48 x 5/8"	0.55	35	-	Fire Guard	0.78	•	•	-	-	•	•	•	•	•	Std	-	•

SUSPENSION SYSTEMS

15/16"



Prelude® XL Fire Guard







Clean Room

(Steel or Aluminum)

NOTE: Clean Room Class 5 (Class 100) UL Classified for Acoustics on 15/16" suspension system only

PHYSICAL DATA

Wet-formed mineral fiber

Surface Finish1715, 1716, 1720, 1721 — Soil-resistant polyester film
868, **870**, 869, 871 — **Vinyl-faced membrane**

Prelude® Clean Room
Prelude® Plus XL® Aluminum (Steel or Aluminum)

Fire Performance
ASTM E84 and CAN/ULC \$102 surface burning
characteristics. Flame Spread Index 25 or less.
Smoke Developed Index 50 or less (UL labeled.) Fire Guard: A fire-resistive ceiling when used in applicable UL assemblies

ASTM E1264 Classification

1715, 1716, 1720, 1721 – Type IV, Form 2, Pattern G H 868, 870, – Type IV, Form 2, Pattern E 869, 871 – Type IV, Form 2, Pattern C E

Humidity/Sag Resistance HumiGuard® Plus ceiling panels maintain superior sag resistance, Recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

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Anti-Mold/Mildew
Ceiling panels with BioBlock® coating contain
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Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines.

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Insulation Value

R Factor – 1.5 (BTU units) R Factor – 0.26 (Watts units)

Printed in the United States of America

30-Year Performance Guarantee & Warranty When installed with Armstrong® Suspension System.

Details at armstrong.com/warranty

Weight; Square Feet/Carton

1715 - 1.02 lbs/SF; 48 SF/ctn 1716 - 1.02 lbs/SF; 48 SF/ctn 1720 - 1.04 lbs/SF; 48 SF/ctn 1720 - 1.04 lbs/SF; 48 SF/ctn 1721 - 1.17 lbs/SF; 48 SF/ctn 868, 869 - 1.10 lbs/SF; 48 SF/ctn 870, 871 - 1.11 lbs/SF; 64 SF/ctn

NOTE: For assistance on proper Clean Room installation, contact TechLine at 1 877 ARMSTRONG.

Minimum Order Quantity:

1 carton, excludes other size panels.

Metric Items Available

1715M, 1716M, 1720M, 1721M, 868M, 870M, 869M, 871M — Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

