

January 23, 1943.

CLASSIFICATION OF ACOUSTIC MATERIALS.

The following classification of acoustic materials has been prepared to assist in determining the acceptability of materials which manufacturers may propose to furnish under Federal Specifications SS-A-118 and SS-A-111. These specifications are sold by the Government Printing Office, Washington, D. C. for 5 cents each. Inclusion in this list should not be construed as a general approval of a material. The compilation is based upon the sound absorption coefficients given in Letter Circular LC-714, dated January 23, 1943. It includes some materials which are not covered by the Federal Specifications, and others which do not meet all of their requirements. A list of manufacturers, who are willing to certify that their acoustic material will conform to the Federal Specifications, is contained in Letter Circular 256a, Part 10A. This Letter Circular can be obtained from the National Bureau of Standards on request.

Mounting

1. Cemented to gypsum wall board. This is considered equivalent to cementing to plaster or masonry.
2. Nailed on 13/16" x 2" furring 12" o.c. unless otherwise indicated.
3. Metal supports attached to 13/16" x 2" wood furring.
4. Laid directly on laboratory floor.
5. Nailed on 2 x 4's 12" o.c. unless otherwise indicated.
6. Cemented to the floor of the reverberation chamber.
7. Back of sample covered with concrete.
8. Attached to metal suspension system. 4" air space back of tile.
9. Acoustic tile nailed to 13/16" x 2" furring 18" o.c. Space between furring filled with Rockwool.
10. Laid on 2 x 8's, 12" o.c.
11. Laid on 24 gauge sheet iron, nailed to 13/16" x 2" furring 24" o.c.

Fire Resistance

- c. Combustible, as defined in Federal Specification SS-A-118.
- s. Slow burning, as defined in Federal Specification SS-A-118.
- r. Fire retardant, as defined in Federal Specification SS-A-118.
- i. Incombustible, as defined in Federal Specification SS-A-118.

LC-715

CORRECTION SHEET

1. p. 1, item 10 under Mounting should read "Nailed on 2 x 8's 12" o. c. unless otherwise indicated."
2. pp. 3, 5, 6, 10, 11, and 12, Cushiontone, should be "Type V" and not "Type VIII."
3. pp. 3, 5, 10, and 11, Cushiontone A-3, weight should be "1.27" and not ".95" as indicated.
4. p. 4, Absorbatone, should be "Type VII" and not "Type VI."
5. pp. 2, 4, 10, 11, Muffletone, Fissured Finish, should be "Type VI" and not "Type II."



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PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
CLASS A (.90 and over) (Sound Absorption Coefficients at 512 cycles per second)						
Type		The Celotex Corporation	1"	9	2.6	I
VII	Absorbex Type A	" "	2"	7	4.7	I
VII	Absorbex Type F (8 gauge)	" "	1 1/4"	1	1.58	C
V	Acousti-Celotex Type C4*	" "	1 1/4"	8	1.44	C
V	Acousti-Celotex Type C4*	" "	1 1/4"	1	1.80	S
V	Acousti-Celotex Type C4*	" "	1 1/4"	4	1.44	C
V	Acousti-Celotex Type C6*	" "	3 1/2"	4	4.44	I
IV	Acousti-Metal-B (4 lb density glass mineral wool)	National Gypsum Company	3 1/2"	4	5.25	I
IV	Acousti-Metal-B (6 lb density glass mineral wool)	" "	15/16"	1	1.54	I
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	4"	4	19.5	I
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	4	24.4	I
I	Akoustolith Tile Grade C	" "	5"	5	24.4	I
I	Akoustolith Tile Grade C	" "		(Not Nailed)		
I	Akoustolith Tile Grade C	" "	5"	10	24.4	I
I	Akoustolith Tile Grade D	" "	4"	(Not Nailed)		
VIII	Fiberglass OC-9 Board	Owens-Corning Fiberglass Corp.	3/4"	4	18.8	I
IV	Sanacoustic Pad, 1 1/4", plus metal facing, pad supports and furring 2 1/2"	Johns-Manville Sales Corp.	-	5	.60	-
				3	1.2 (pad)	I

*Coefficient of sound absorption at 2048 cycles less than 3/4 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick- ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS B (.85 to .89) (Sound Absorption Coefficients at 512 cycles per second)						
Type IV	Acousti-Metal, Rockwool pad, plus metal facing & pad supports 1 5/8", plus fur- ring 5 1/4"	National Gypsum Company	5 1/4"	8	0.98 (pad)	1
VI	Acoustone Type D	U. S. Gypsum Company	15/16"	1	1.48	1
VI	Acoustone Type F, mill painted.	"	13/16"	1	1.33	1
I	Acoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	1

Type	Material	Manufacturer	Thick- ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS C (.80 to .84) (Sound Absorption Coefficients at 512 cycles per second)						
VII	Absorbatone	Inse Stevenson Company	1"	10	2.2	F
VII	Absorbex Type A on 1"	The Celotex Corporation	2"	4	-	F
VIII	Absorbex Type F (10 gauge)	National Gypsum Company	1 1/8"	2	2.5	F
VIII	Acoustex Type 70R	The Insulite Company	3/4"	2	0.57	C
VI	Acoustilite	U. S. Gypsum Company	13/16"	1	1.24	I
VI	Acoustone Type F	"	15/16"	1	1.46	I
I	Acoustolith Tile, Sample No. 104	R. Guastavino Company	4"	4	21.2	I
II	Muffleton, Standard Finish	The Celotex Corporation	1"	1	1.83	I
II	Muffleton, Fissured Finish	"	1"	1	1.94	I
IV	Perfatone, Rockwool pad, plus metal facing and pad supports 1 5/8", plus fur- ring 8"	U. S. Gypsum Company	-	8	.93 (pad)	I
VI	Permacoustic	Johns-Manville Sales Corp.	1"	1	2.33	I
II	Travacoustic	National Gypsum Company	1"	1	2.04	I

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS D (.75 to .79) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Acoustex Type 60R	National Gypsum Company	1"	2	2.07	F
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	1	0.94	C
V	Acousti-Celotex Type C4	" "	1 1/4"	8	1.93	S
V	Acousti-Celotex Type C5*	" "	13/16"	2	.86	C
V	Acousti-Celotex C6	" "	1 1/4"	8	1.65	S
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	C
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	I
VI	Acoustone Type F, mill painted	" "	11/16"	1	1.13	I
I	Acoustolith Tile Grade B-1	R. Guastavino Company	1 1/4"	5	5.8	I
I	Acoustolith Tile Grade C	" "	4"	10 (Not Mailed)	19.5	I
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	I
VIII	Gushiontone	Armstrong Cork Company	7/8"	1	.95	C
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	C
VIII	Fiberlite	The Insulite Company	1/2"	2	.44	C
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	1	.54	C
VII	Koustex	David E. Kennedy, Inc.	1"	1	2.24	F
II	Mufflestone, Standard Finish	The Celotex Corporation	1"	1	1.84	I
VI	Pyrocoustic	Mitchell & Smith	13/16"	1	1.1	I
VIII	Quietone*	U. S. Gypsum Company	1"	4	0.81	C
IV	Sanacoustic, Rockwool pad, plus metal facing and pad supports, plus furring 5 1/4"	Johns-Manville Sales Corp.	-	8	1.2 (Pad)	I
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	I
IV	Transite Acoustical Units	Johns-Manville Sales Corp.	1 1/8"	4	3.0	I

8-974 *Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS E (.70 to .74) (Sound Absorption Coefficients at 512 cycles per second)						
Type VI	Absorbatone	Luse Stevenson Company	1"	2	2.4	F
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	F
VII	Acoustex Type 70R	"	1 1/8"	1	2.5	F
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	C
V	Acousti-Celotex Type C9	"	3/4"	1	1.06	C
V	Acousti-Celotex Type C9	"	3/4"	2	1.06	C
V	Acousti-Celotex Type C9	"	3/4"	8	1.00	C
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	13/16"	8	1.31	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	F
I	Alkoustolith Tile Grade D	R. Guastavino Company	4"	10	18.8	i
VIII	Fiberlite	The Insulite Company	1/2"	2	.44	C
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	2	.54	C
VII	Koustex	David E. Kennedy, Inc.	1 1/4"	1	2.2	F
II	Mufletone, Fissured Finish	The Celotex Corporation	1"	1	1.96	i
VI	Permacoustic	Johns-Manville Sales Corp.	3/4"	1	1.69	i
VIII	Studio Element	"	1"	4	1.47	-

CLASS F (.65 to .69) (Sound Absorption Coefficients at 512 cycles per second)						
Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	F
V	Acousti-Celotex Type C2	"	5/8"	1	.89	S
V	Acousti-Celotex Type C3	"	13/16"	8	1.09	C
V	Acousti-Celotex Type C3	"	13/16"	1	1.35	S
V	Acousti-Celotex Type C3	"	13/16"	8	1.06	S
V	Acousti-Celotex Type C8	"	1"	2	1.44	C
V	Acousti-Celotex Type M1	"	9/16"	1	1.23	i
V	Acousti-Celotex Type M2	"	1"	8	2.32	i
VI	Acoustone Type D*	United States Gypsum Co.	11/16"	1	1.30	i

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick-ness	Mounting	Weight (lb) sq ft	Fire Resistance
Class F (.65 to .69) Continued (Sound Absorption Coefficients at 512 cycles per second)						
Type VI	Acoustone Type F	United States Gypsum Company	1 1/16"	1	1.15	1
I	Acoustolith Grade B-2	R. Guastavino Company	1 1/2"	4	6.1	1
VIII	Cushiontone A-2*	Armstrong Cork Company	5/8"	2	.91	C
VIII	Cushiontone A-3	" "	7/8"	2	.95	C
VIII	Econacoustic	National Gypsum Company	1 1/2"	1 or 2	0.48	C
VI	Kencoustic (cork)	David E. Kennedy, Inc.	1 1/2"	1	.88	S
II	Muffleton, Standard Finish	The Celotex Corporation	3/4"	1	1.62	1
VI	Permacoustic	Johns-Manville Sales Corporation	1"	5	2.33	1
VI	Softone	Industrials, Inc. of Wisconsin	1"	(Not Nailed)	2.18	-

Type	Material	Manufacturer	Thick-ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS G (.60 to .64) (Sound Absorption Coefficients at 512 cycles per second)						
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	1
VII	Acoustex Type 4OR	National Gypsum Company	3/4"	2	1.54	1
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	C
V	Acousti-Celotex Type C2	" "	5/8"	2	1.07	S
V	Acousti-Celotex Type C5	" "	13/16"	1	-	C
V	Acousti-Celotex Type C5	" "	13/16"	8	1.12	S
VI	Acoustone Type D	U. S. Gypsum Company	9/16"	1	1.09	1
VI	Acoustone Type F, mill painted*	" "	9/16"	1	.97	1
VIII	Cushiontone A-2	Armstrong Cork Co.	5/8"	1	.91	C
VII	Koustex	David E. Kennedy, Inc.	3/4"	1	1.48	1

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick-ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS H (.55 to .59) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Acoustex Type 3OR	National Gypsum Company	5/8"	2	1.34	F
VII	Acoustex Type 6OR	National Gypsum Company	1"	1	-.88	F
VI	Acoustone Type F	U. S. Gypsum Company	9/16"	1	-.88	I
I	Akoustolith Tile Grade D	R. Guastavino Company	2"	4	-.79	I
VIII	Cushiontone A-1*	Armstrong Cork Company	1/2"	1	.79	C
VIII	Cushiontone A-1	" "	1/2"	2	.79	C
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	C

CLASS I (.50 to .54) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Acoustex Type 6OR	National Gypsum Company	1"	1	2.31	F
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	F
I	Akoustolith Tile Grade C	R. Guastavino Company	2"	4	10.1	F
VIII	Fiberlite	The Insulite Company	1/2"	1	.41	C
VIII	Kentex	David E. Kennedy, Inc.	1"	1	.78	-
VII	Koustex	" "	3/4"	8	1.48	F
				(12" air space)		

CLASS J (.45 to .49) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Absorbex Type F (10 gauge)	The Celotex Corporation	1"	2	-.78	F
V	Acousti-Celotex Type G1	" "	1/2"	1	4.6	C
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1"	4	.79	I
VI	Kencoustic	David E. Kennedy, Inc.	1"	1	-.79	S
II	Trutone, cast on 1/4" gypsum wall board	Acoustone Company, Ltd.	7/8"	4	-.79	I

*Coefficient of sound absorption at 128 cycles less than 1/8 of the coefficient at 512 cycles.

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick-ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS K (.40 to .44) (Sound Absorption Coefficients at 512 cycles per second)						
Type V	Acousti-Celotex Type C1	The Celotex Corporation	1/2"	1	.88	s
I	Akoustolith Tile Grade C	R. Guastavino Company	1 1/2"	4	7.5	i
CLASS L (.35 to .39) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Acoustex Type 4OR	National Gypsum Company	3/4"	1	1.75	r
VII	Acoustical Cork "B"	United Cork Companies	1 1/2"	2	.94	s
VIII	Nuwood Bevel Lap Tile	Wood Conversion Co.	1"	6	1.41	c
VIII	Temlok Deluxe	Armstrong Cork Company	1/2"	4	1.18	c
VIII	Temlok Deluxe	" "	7/8"	4	1.19	c
CLASS M (.30 to .34) (Sound Absorption Coefficients at 512 cycles per second)						
Type VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VIII	Nuwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	c
CLASS N (.25 to .29) (Sound Absorption Coefficients at 512 cycles per second)						
Type I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	i
Class AA (.90 or over) Noise Coefficients						
Type I	Akoustolith Tile Grade C	R. Guastavino Company	5"	4	24.4	i
I	Akoustolith Tile Grade C	" "	5"	10 (Not nailed)	24.4	i
IV	Acousti-Metal-B (4 lb density glass mineral wool)	National Gypsum Company	3 1/2"	4	4.44	i
IV	Acousti-Metal-B (6 lb density glass mineral wool)	" "	3 1/2"	4	5.25	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS BB (.85) Noise Coefficients						
Type VII	Absorbstone	Luse Stevenson Company	1"	10	2.2	F
IV	Acousti-Metal, Rockwool pad, plus metal facing and pad supports, 1 5/8" plus furring 5 1/4"	National Gypsum Company	5 1/4"	8	0.98 (pad)	I
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	5	24.4	I
VIII	Fiberglas OC-9 Board	Owens-Corning Fiberglas Corp.	3/4"	5 (Not nailed)	.60	-
IV	Perfatone, Rockwool pad plus metal facing and pad supports, plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	I
IV	Sanacoustic; Rockwool pad plus metal facing and pad supports, plus furring 5 1/4"	Johns-Manville Sales Corp.	-	8	1.2 (pad)	I

Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS CC (.80) Noise Coefficients						
Type VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	F
VI	Acoustone Type F, mill painted	U. S. Gypsum Company	15/16"	1	1.54	I
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1 1/4"	5	5.8	I
I	Akoustolith Tile Grade C	" "	4"	10 (Not nailed)	19.5	I
I	Akoustolith Tile Grade C	" "	4"	4	19.5	I
I	Akoustolith Tile Grade D	" "	4"	10 (Not nailed)	18.8	I
I	Akoustolith Tile Grade D	" "	4"	4	18.8	I
I	Akoustolith Tile, Number 104	" "	4"	4	21.2	I
IV	Sanacoustic, Rockwool pad, plus metal facing, pad supports and furring 2 1/2"	Johns-Manville Sales Corp.	-	3	1.2 (Pad)	I

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS DD (.75)						
Noise Coefficients						
Type VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
VII	Absorbex Type F (8 gauge)	" "	2"	7	4.7	r
VIII	Acoustilite	The Insulite Company	3/4"	2	0.57	c
VII	Acoustex Type 70R	National Gypsum Company	1 1/8"	2	2.5	r
V	Acousti-Celotex Type C4	The Celotex Corporation	1 1/4"	8	1.44	c
V	Acousti-Celotex Type C5	" "	13/16"	2	.86	c
V	Acousti-Celotex Type C6	" "	1 1/4"	8	1.65	s
VI	Acoustone Type D	U. S. Gypsum Company	15/16"	1	1.48	i
VI	Acoustone Type F	" "	15/16"	1	1.46	i
VI	Acoustone Type F, mill painted	" "	13/16"	8	1.31	i
I	Alkoustilith Tile Grade B-1	R. Guastavino Co.	2"	5	9.4	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
VIII	Fibracoustic	Johns Manville Sales Corp.	1"	2	.54	c
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.83	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5	2.33	i
VI	Permacoustic	" "	1"	1	2.33	i
(Not nailed)						
CLASS EE (.70)						
Noise Coefficients						
Type VII	Absorbstone	Inuse Stevenson Company	1"	2	2.4	r
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 60R	" "	1"	2	2.07	r
VII	Acoustex Type 70R	" "	1 1/8"	1	2.5	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	8	1.09	c
V	Acousti-Celotex Type C3	" "	13/16"	8	1.06	s
V	Acousti-Celotex Type C4	" "	1 1/4"	1	1.80	s
V	Acousti-Celotex Type C4	" "	1 1/4"	8	1.93	s

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Flre Resistance
CLASS EE (.70) (Continued)						
Type		Noise Coefficients				
V	Acousti-Celotex Type C5	The Celotex Corporation	13/16"	8	1.12	s
V	Acousti-Celotex Type C6	" "	1 1/4"	4	1.44	c
V	Acousti-Celotex Type C8	" "	1"	2	1.44	c
V	Acousti-Celotex Type C9	" "	3/4"	8	1.00	c
V	Acousti-Celotex Type M2	" "	1"	8	2.32	i
VI	Acoustone Type D	U. S. Gypsum Company	13/16"	1	1.40	i
VI	Acoustone Type F	" "	13/16"	1	1.24	i
VI	Acoustone Type F, mill painted	" "	11/16"	1	1.13	i
VI	Acoustone Type F, " "	" "	13/16"	1	1.33	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	r
VIII	Cushiontone A-2	Armstrong Cork Company	5/8"	2	.91	i
VIII	Cushiontone A-3	" "	7/8"	2	.95	c
VIII	Econacoustic	National Gypsum Company	1"	1	0.71	c
VIII	Fibracoustic	Johns-Manville Sales Corp.	1"	1	.54	c
VII	Koustex	David E. Kennedy, Inc.	1 1/4"	1	2.2	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
II	Muffletone, Fissured Finish	" "	1"	1	1.94	i
VI	Pyrocoustic	Mitchell & Smith	13/16"	1	1.1	i
VIII	Studio Element	Johns-Manville Sales Corp.	1"	4	1.47	-
II	Travacoustic	National Gypsum Company	1"	1	2.04	i
CLASS FF (.65)						
Type		Noise Coefficients				
VII	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
VII	Acoustex Type 40R	" "	3/4"	2	1.54	r
VII	Acoustex Type 60R	" "	1"	1	-	r

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS FF (.65) - Continued.						
Noise Coefficients						
Type		The Celotex Corporation	5/8"	2	.88	C
V	Acousti-Celotex Type C2	" "	13/16"	1	0.94	C
V	Acousti-Celotex Type C3	" "	1 1/4"	1	1.58	C
V	Acousti-Celotex Type C4	" "	3/4"	2	1.06	C
V	Acousti-Celotex Type C9	" "	9/16"	1	1.23	I
V	Acousti-Celotex Type M1	" "	3/4"	1	.59	C
VIII	Acoustilite	The Insulite Company	3/4"	1	1.30	I
VI	Acoustone Type D	U. S. Gypsum Company	11/16"	1	1.15	I
VI	Acoustone Type F	" "	11/16"	1	6.1	I
I	Akoustolith Tile Grade B-2	R. Guastavino Company	1 1/2"	4	.95	I
VIII	Cushiontone A-3	Armstrong Cork Company	7/8"	1	.44	C
VIII	Fiberlite, painted by mfr.	The Insulite Company	1/2"	2	1.43	C
VII	Koustex	David E. Kennedy, Inc.	3/4"	8		R
VII	Koustex	" " "	1"	1	2.24	R
II	Muffleton, Fissured Finish	The Celotex Corporation	1"	1	1.96	I
VI	Permacoustic	Johns-Manville Sales Corp.	3/4"	1	1.69	I
VIII	Quietone	U. S. Gypsum Company	1"	4	0.81	C
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	I
IV	Transite Acoustical Unit	Johns-Manville Sales Corp.	1 1/8"	4	3.0	I
(12" air space)						

Type	Material	Manufacturer	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS GG (.60)						
Noise Coefficients						
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	R
VII	Acoustex Type 50R	National Gypsum Company	1"	1	2.31	R
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	C
V	Acousti-Celotex Type C2	" "	5/8"	1	.89	S
V	Acousti-Celotex Type C2	" "	5/8"	2	1.07	S
V	Acousti-Celotex Type C3	" "	13/16"	1	1.35	S

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-118	Material	Manufacturer	Thick- ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS GG (.60) - Continued						
Type	Noise Coefficients					
V	Acousti-Celotex Type C9	The Celotex Corporation	3/4"	1	1.06	c
VI	Acoustone Type D	U. S. Gypsum Company	9/16"	1	1.09	i
VI	Acoustone Type F	" "	9/16"	1	.88	i
VI	Acoustone Type F, mlll painted	" "	9/16"	1	.97	i
VIII	Air-Acoustic Sheets	Johns Manville Sales Corp.	1/2"	11	.80	r
VIII	Cushiontone A-1	Armstrong Cork Company	1/2"	2	.79	c
VIII	Cushiontone A-2	" "	5/8"	1	.91	c
VIII	Ecounacoustic	National Gypsum Company	1/2"	1 or 2	0.48	c
VII	Koustex	David E. Kennedy, Inc.	3/4"	1	1.48	r
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Softone	Industrials, Inc. of Wisconsin	1"	1	2.18	-

CLASS HH (.55)

Type	Noise Coefficients					
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C5	" "	13/16"	1	-	c
I	Akoustolith Tile Grade R-2	R. Guastavino Company	1"	4	4.6	i
I	Akoustolith Tile Grade C	" "	2"	4	10.1	i
I	Akoustolith Tile Grade D	" "	2"	4	-	i
VIII	Cushiontone A-1	Armstrong Cork Company	1/2"	1	.79	c
VIII	Fiberlite, painted by manufacturer	The Insulite Company	1/2"	1	.41	c
VIII	Quietone	U. S. Gypsum Company	1/2"	1	0.47	c
II	Trutone Tile, cast on 1/4" Gypsum wallboard.	Acoustone Company, Ltd.	7/8"	4	-	i

PRE-FABRICATED ACOUSTIC UNITS

Federal Specification SS-A-113	Material	Manufacturer	Thick- ness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS II (.50) Noise Coefficients						
Type VII	Acoustex Type 4OR	National Gypsum Company	3/4"	1	1.75	I
I	Akoustolith Tile Grade C	R. Guastavino Company	1 1/2"	4	7.5	I
VI	Xencoustic (cork)	David E. Kennedy, Inc.	1 1/2"	1	.88	S
CLASS JJ (.45) Noise Coefficients						
Type VII	Absorbex Type C	The Celotex Corporation	1"	4	-	I
VII	Absorbex Type F (10 gauge)	" "	1"	2	-	I
V	Acousti-Celotex Type C1	" "	1/2"	1	.78	C
VIII	Kentex	David E. Kennedy, Inc.	1"	1	.78	-
CLASS KK (.40) Noise Coefficients						
Type V	Acousti-Celotex Type C1	The Celotex Corporation	1/2"	1	.88	S
I	Akoustolith Tile Grade D	R. Guastavino Company	1"	4	-	I
VI	Acoustical Cork "B"	United Cork Companies	1 1/2"	2	.94	S
VI	Kencoustic	David E. Kennedy, Inc.	1"	1	.79	S
VIII	Temlok DeLuxe	Armstrong Cork Company	7/8"	4	1.19	C
CLASS LL (.35) Noise Coefficients						
Type VIII	Muwood Bevel Lap Tile	Wood Conversion Company	1"	6	1.41	C
CLASS MM (.30) Noise Coefficients						
Type VIII	Muwood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.69	C
VIII	Temlok DeLuxe	Armstrong Cork Company	1/2"	4	1.18	C

Table 2

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
	CLASS A (.90 or over) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Kearsbey & Mattison Company	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Kearsbey & Mattison Company	1/2"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board, finished with roller. Not painted.	Kearsbey & Mattison Company	1 1/2"
III	Spray-Acoustic Type I, applied with air gun on gypsum wall board, finished with roller.	Sprayo-Flake Company	1 1/8"
	CLASS B (.85 to .89) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath, finished with roller. Not painted.	Kearsbey & Mattison Company	3/8"
III	Spray-Acoustic Type I, applied with air gun on metal lath, finished with roller.	Sprayo-Flake Company	5/8"
	CLASS E (.70 to .74) Sound Absorption Coefficients (at 512 cycles per second)		
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board. Not painted.	Kearsbey & Mattison Co.	3/4"
	CLASS F (.65 to .69) Sound Absorption Coefficients (at 512 cycles per second)		
I	Macoustic Plaster, trowel finish	National Gypsum Company	3/4"
I	Stucoustic Plaster, Type A. D.	California Stucco Products of New England, Inc.	3/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
Type	CLASS G (.60 to .64) Sound Absorption Coefficients (at 512 cycles per second)		
I	Sabinite M	U. S. Gypsum Company	3/4"
I	Sabinite Plaster A	U. S. Gypsum Company	3/4"
I	Acoustic Plaster		1/2"
I	Hushkote Acoustic Plaster	Kelley Island Lime and Transport Company	5/8"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board	Cleveland Gypsum Supply Co. Keasbey & Mattison Company	5/8"
I	Maccoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Reverbclite Plaster (Regular)	The Celotex Corporation	1/2"
I	Stuccoustic Plaster	California Stucco Products of New England, Inc.	1/2"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	1/2"
I	Hushkote Acoustic Plaster	" " "	3/4"
I	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"
I	Sabinite M	U. S. Gypsum Company	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
CLASS K (.40 to .44) Sound Absorption Coefficients (at 512 cycles per second)			
Type I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Plastacoustic	R. Guastavino Company	1/2"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
I	Sabinite Plaster F	U. S. Gypsum Company	1/2"
CLASS L (.35 to .39) Sound Absorption Coefficients (at 512 cycles per second)			
I	Sabinite Plaster A	U. S. Gypsum Company	1/2"
CLASS M (.30 to .34) Sound Absorption Coefficients (at 512 cycles per second)			
I	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
CLASS AA (.90) Noise coefficients			
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Keasbey & Mattison Company	3/4"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Keasbey & Mattison Company	1 1/2"
III	Spray-Acoustic Type X, applied with air gun on metal lath.	Sprayo-Flake Company	5/8"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
CLASS BB (.85) Noise Coefficients			
Type III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Kearsbey & Mattison Company	3/8"
III	Limpet (Sprayed Asbestos), applied with air gun on metal lath.	Kearsbey & Mattison Company	1/2"
III	Spray-Acoustic Type X, applied with air gun on gypsum wall board.	Sprayo-Flake Company	1 1/8"
CLASS EE (.70) Noise Coefficients			
Type III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Kearsbey & Mattison Company	3/4"
CLASS GG (.60) Noise Coefficients			
Type I	Acoustic Plaster	Kelley Island Lime & Transport Co.	1/2"
III	Limpet (Sprayed Asbestos), applied with air gun on gypsum wall board.	Kearsbey & Mattison Company	5/8"
I	Sabinitite Plaster A	U. S. Gypsum Company	3/4"
I	Sabinitite Plaster M	" "	1/2" or 3/4"
I	Stucoustic Plaster	California Stucco Products of New England, Inc.	1/2"
CLASS HH (.55) Noise Coefficients			
Type I	Acoustic Plaster	Hollywood Stucco Products, Inc.	1/2"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
I	Macoustic Plaster, trowel finish	" "	3/4"
I	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

Federal Specification SS-A-111	Material	Manufacturer	Thickness
CLASS HH (.55) - Continued Noise Coefficients			
Type			
I	Plastacoustic	R. Guastavino Company	1/2"
I	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
I	Sabinit Plaster A	U. S. Gypsum Company	1/2"
I	Sabinit Plaster F	" "	1/2"
I	Stucoustic Plaster Type A. D.	California Stucco Products of New England, Inc.	3/4"
CLASS II (.50) Noise Coefficients			
Type			
I	Calacoustic Plaster	Pacific Portland Cement Company	1/2"
I	Hushkote Acoustic Plaster	Cleveland Gypsum Company	1/2"
I	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Company	1/2"
CLASS JJ (.45) Noise Coefficients			
Type			
I	Hushkote Acoustic Plaster	Cleveland Gypsum Company	5/8"
I	Hushkote Acoustic Plaster	" "	3/4"
I	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
CLASS KK (.40) Noise Coefficients			
Type			
I	Dodson Acoustic Plaster	The Dodson Manufacturing Company	3/4"
I	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"