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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON
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Letter
Circular
LC-585

CLASSIFICATION OF ACOUSTIC MATERIALS

The following compilation of acoustic materials has been prepared to assist in the determination of the acceptability of materials which may be proposed to be furnished under Federal Specifications SS-A-118 and SS-P-391. These may be obtained from the Government Printing Office, Washington, D. C., for 5 cents each. The inclusion of a material in this list should not be construed as a general approval of this material. The compilation is based upon the sound absorption coefficients given in Letter Circular LC-573, dated November 15, 1939. It includes some materials which are not covered by the Federal Specifications, and others which do not meet all of their requirements.

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. As a rule the results obtained this way are the same as when the tile is cemented to gypsum wall board.
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.
12. Clipped at corners to 5/8" x 1 3/8" metal furring 12" o.c. Furring was clipped to 1 1/2" channels which were 3'6" 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.

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PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb)	Fire Resistance
SS-A-118					sq ft	
CLASS A (.90 and over)						
TYPE	(Sound Absorption Coefficients at 512 cycles per second)					
VII	Absorbex Type A	The Celotex Corporation	1"	9	2.6	r
VII	Absorbex Type F (8 gauge)	" "	2"	7	4.7	r
V	Acousti-Celotex Type C4**	" "	1 1/4"	1	1.58	c
V	Acousti-Celotex Type C4**	" "	1 1/4"	8	1.44	c
V	Acousti-Celotex Type C4, slow burning**	" "	1 1/4"	1	1.80	s
V	Acousti-Celotex Type C6**	" "	1 1/4"	4	1.44	c
V	Acousti-Celotex Type M3	" "	1 1/4"	1	2.58	i
I	Akoustolith Tile Grade C	R. Guastavino Company	4"	4	19.5	i
I	Akoustolith Tile Grade C	" "	5"	4	24.4	i
I	Akoustolith Tile Grade C	" "	5"	5	24.4	i
I	Akoustolith Tile Grade C	" "	5"	10	24.4	i
I	Akoustolith Tile Grade D	" "	4"	4	18.8	i
II	Berry-Cel	F. E. Berry, Jr. & Co., Inc.	1"	8	2.57	i
II	Berry-Cel (plus rockwool back of tile)	" " " " " "	1"	8	2.99	i
II	Calicel Acoustic Tile	The Celotex Corporation	(tile)	1	3.42	i
IV	Sanacoustic Pad 1 1/4", plus metal facing, pad supports and furring 2 1/2"	Johns-Manville Sales Corp.	1 1/4"	3	1.2 (pad)	i

CLASS B (.85 to .89)						
TYPE	(Sound Absorption Coefficients at 512 cycles per second)					
IV	Acousti-Metal, Rockwool pad, plus metal facing & pad sup- ports 1 5/8", plus furring 4"	National Gypsum Company	-	8	0.98 (pad)	i
I	Akoustolith Tile Grade B-2	R. Guastavino Company	2"	4	8.5	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	5	2.66	i
I	Calistone	" "	2"	4	9.3	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	Thickness	Mounting	Weight (lb) sq ft	Fire Resistance
CLASS C (.80 to .84)						
(Sound Absorption Coefficients at 512 cycles per second)						
VII	Absorbex Type A on 1" Absorbex Type F (10 gauge)	The Celotex Corporation	2"	4	-	r
I	Calistone, Long edges splayed on opposite sides. 5 holes 3" in diam. through body of tile.	"	4"	4	17.6	i
I	Calistone	"	5"	4	22.4	i
I	Calistone Type Y	"	5"	4	25.7	i
II	Muffletone, Standard Finish	"	1"	1	1.83	i
IV	Mutetile (2" Rockwool)	Acoustical Corp. of America	2 1/8"	4	-	i
IV	Perfatone, Rockwool pad, plus metal facing and pad supports 1 5/8", plus furring 8"	U. S. Gypsum Company	-	8	.93 (pad)	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	1	2.33	i

CLASS D (.75 to .79)

(Sound Absorption Coefficients at 512 cycles per second)						
VII	Acoustex Type 60R	National Gypsum Company	1"	2	2.07	r
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	1	1.11	c
V	Acousti-Celotex Type C3	"	13/16"	1	0.94	c
V	Acousti-Celotex Type C4, slow burning	"	1 1/4"	8	1.93	s
V	Acousti-Celotex Type C5*	"	13/16"	2	.86	c
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type D*	U. S. Gypsum Company	3/4"	1	1.25	i
VI	Acoustone Type D	"	1"	1	1.66	i
VI	Acoustone Type F	"	3/4"	1	1.28	i
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1 1/4"	5	5.8	i
I	Akoustolith Tile Grade C	"	4"	10	19.5	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	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	Mount- ing	Weight (lb)	Fire Resistance
CLASS D (.75 to .79) Continued (Sound Absorption Coefficients at 512 cycles per second)						
TYPE					sq ft	
II	Calicel Acoustic Tile	The Celotex Corporation	1 1/4"	5	3.42	i
VI	Corkoustic Type B5* **	Armstrong Cork Company	1 1/8"	2	.75	s
VI	Corkoustic Type B6* **	" "	1 3/4"	1	.85	s
VII	Fibretek Type 60R(1)	Johns-Manville Sales Corp.	1"	2	2.07	r
VIII	Gold Bond Fiber Acoustic Unit	National Gypsum Company	1"	1	0.71	c
VII	Kencoustex	David E. Kennedy, Inc.	1"	1	2.24	r
II	Muffletone, Standard Finish	The Celotex Corporation	1"	1	1.84	i
VIII	Quietone*	U. S. Gypsum Company	1"	4	0.81	c
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
IV	Transcite Acoustical Units	Johns-Manville Sales Corp.	1 1/8"	4	3.0	i
CLASS E (.70 to .74) (Sound Absorption Coefficients at 512 cycles per second)						
TYPE						
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
VII	Acoustex Type 50R	National Gypsum Company	7/8"	2	1.79	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	1	.88	c
I	Acoustolith Tile Grade D	R. Guastavino Co.	4"	10	18.8	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	1	2.66	i
I	Calistone	" "	2"	5	9.3	i
VI	Corkoustic Type B5* **	Armstrong Cork Co.	1 1/8"	1	.82	s
VII	Fibretek Type 50R	Johns-Manville Sales Corp.	7/8"	2	1.79	r
II	Kalite, cast on 1/4" backing of moulding plaster Grade A (Coarse)	Certain-teed Products Corp.	2"	4	-	i
II	Muffletone, Travertine Finish	The Celotex Corporation	1"	1	1.96	i
VI	Rockoustile	Johns-Manville Sales Corp.	1"	1	1.3	-
III	Spongeoustic	" "	3/4"	1	1.58	i
VIII	Studio Element	" "	1"	4	1.47	-

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

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

(1) These figures are based on tests of Acoustex manufactured by the National Gypsum Company.

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
CLASS F (.65 to .69)						
(Sound Absorption Coefficients at 512 cycles per second)						
TYPE						
VII	Absorbex Type C (14 gauge)	The Celotex Corporation	1"	2	-	r
V	Acousti-Celotex Type C2, slow burning	" "	5/8"	1	.59	s
V	Acousti-Celotex Type C3	" "	13/16"	3	1.09	c
V	Acousti-Celotex Type C3, slow burning	" "	13/16"	1	1.35	s
V	Acousti-Celotex Type C3, slow burning	" "	13/16"	3	1.06	s
V	Acousti-Celotex Type M1	" "	9/16"	1	1.23	i
V	Acousti-Celotex Type M2	" "	1"	3	2.32	i
I	Akoustolith Grade B-1	R. Guastavino Company	2"	5	9.4	i
I	Akoustolith Grade B-2	" "	1 1/8"	4	6.1	i
VI	Corkoustic Type B5* **	Armstrong Cork Company	1 1/8"	1	.75	s
VIII	Hawaiian Cane Products	Hawaiian Cane Products, Ltd.	1"	1	0.75	c
VI	Kancoustic (cork)	David E. Kennedy, Inc.	1 1/8"	1	.88	s
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5	2.33	i
VI	Reckoustile	" "	7/8"	1	-	-
II	Sound-Cor	Sound Control Corporation	1"	1	1.40	-
II	Sound-Cor	" "	1"	1	1.14	-
VIII	Temcoustic F2	Armstrong Cork Company	7/8"	1	1.02	c

CLASS G (.60 to .64)

(Sound Absorption Coefficients at 512 cycles per second)						
TYPE						
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type 4OR	National Gypsum Company	3/4"	2	1.54	r
VII	Acoustex Type 7OR	" "	1 1/8"	1	-	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C2, slow burning	" "	5/8"	2	1.07	s
V	Acousti-Celotex Type C5	" "	13/16"	1	-	c

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

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

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb)	Fire Resistance
SS-A-118					sq ft	
CLASS G (.60 to .64) continued						
(Sound Absorption Coefficients at 512 cycles per second)						
TYPE	Acousti-Celotex Type MU-1	The Celotex Corporation	1/2"	1	1.39	i
II	Calicel Acoustic Tile*	" "	3/4"	1	-	i
I	Calistone	" "	4"	4	17.8	i
II	Ceramacoustic	Armstrong Cork Company	1 1/8"	1	3.4	i
VII	Fibretext Type 40R	Johns-Manville Sales Corp.	3/4"	2	1.54	r
II	Kalite cast on 1/4" backing of moulding plaster Grade A (Coarse)	Certain-teed Products Corp.	1 1/2"	4	-	i
VI	Kencoustic (cork) Type CB-1.5* **	David E. Kennedy, Inc.	1 1/2"	1	-	s
VIII	Maizewood Tile	Maizewood Products Corporation	1 1/2"	4	2.1	c
CLASS H (.55 to .59)						
(Sound Absorption Coefficients at 512 cycles per second)						
TYPE	Acoustex Type 30R	National Gypsum Company	5/8"	2	1.34	r
I	Alcoustolith Tile Grade D	R. Guastavino Company	2"	4	-	i
VI	Cork* **	Armor Insulating Company	1 1/2"	1	0.96	s
VI	Corkoustic Type B4	Armstrong Cork Company	1 1/4"	1	.63	s
VII	Fibretext Type 30R	Johns-Manville Sales Corp.	5/8"	2	1.34	r
II	Kalite, cast on 1/4" backing of moulding plaster, Grade D (Fine)	Certain-teed Products Corp.	1 1/2"	4	-	i
II	Kalite, cast on 1/4" backing of moulding plaster, Grade D (Fine)	" "	2"	4	-	i
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	Acoustex Type 60R	National Gypsum Company	1"	1	2.31	r
VII	Acoustone Type D	U. S. Gypsum Company	1/2"	1	.76	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	r
I	Alcoustolith Tile Grade C	R. Guastavino Company	2"	4	10.1	i
VI	Corinco Acousticator	Cork Insulation Company	1 1/2"	1	1.20	s
VIII	Fiberlite	The Insulite Company	1/2"	1	.41	c
II	Sound-Cor	Sound Control Corporation	1 1/8"	8	1.41	i

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

** 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	Mount- ing	Weight (lb) sq ft	Fire Resistance
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	-	r
V	Acousti-Celotex Type C1	" "	1/2"	1	.78	c
I	Aloustolith Tile Grade B-2	R. Gustavino Company	1"	4	4.6	i
II	Kalite, cast on $\frac{1}{4}$ " backing of moulding plaster, Grade D (Fine)	Certain-teed Products Corp.	1"	4	-	i
II	Trutone, cast on $\frac{1}{4}$ " gypsum wall- board	Acoustone Company, Ltd.	7/8"	4	-	i
CLASS K (.40 to .44) (Sound Absorption Coefficients at 512 cycles per second)						
TYPE						
V	Acousti-Celotex Type C1, slow burning	The Celotex Corporation	1/2"	1	.88	s
I	Aloustolith File Grade C	R. Gustavino Company	1 1/8"	4	7.5	i
VIII	Hawaiian Cane Tile	Hawaiian Cane Products, Ltd.	1"	2	.81	c
II	Kalite, cast on $\frac{1}{4}$ " backing of moulding plaster, Grade A (Coarse)	Certain-teed Products Corp.	1"	4	-	i
CLASS L (.35 to .39) (Sound Absorption Coefficients at 512 cycles per second)						
TYPE						
VII	Acoustex Type 40R	National Gypsum Company	3/4"	1	1.75	r
VI	Acoustical Cork "B"	United Cork Companies	1 1/2"	2	.94	s
VI	Corinco Acousticator	Cork Insulation Co., Inc.	1 1/2"	2	1.07	s
VII	Fibretek Type 40R	Johns-Manville Sales Corp.	3/4"	1	1.75	r
VIII	Mawood 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
VIII	Temlok DeLuxe	" "	1 3/8"	4	1.65	c

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
SS-A-118						
		CLASS M (.30 to .34) (Sound Absorption Coefficients at 512 cycles per second)				
TYPE						
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VI	Cork*	Armor Insulating Company	1"	1	0.67	s
VIII	Wood Bevel Lap Tile	Wood Conversion Company	1/2"	6	0.59	c
II	KenKoustone	David E. Kennedy, Inc.	1"	1	2.34	-
II	Sound-Cor	Sound Control Corporation	1 1/8"	8	1.6	-
		CLASS M (.25 to .29) (Sound Absorption Coefficients at 512 cycles per second)				
TYPE						
I	Akoustolith Tile Grade D	E. Guestavino Company	1"	4	-	i

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

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
SS-A-118						
TYPE		Class Aa (.90 or over) Noise Coefficients				
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	4	24.4	i
I	Akoustolith Tile Grade C	" "	5"	10	24.4	i
II	Berry-Cel, plus Rockwool at back of tile	F. E. Berry, Jr. & Co., Inc.	1" (tile)	8	2.99	i
TYPE		Class Bz (.85) Noise Coefficients				
IV	Acousti-Metal, Rockwool pad, plus metal facing and pad supports, 1 5/8" plus furring 4"	National Gypsum Company	-	8	0.98 (pad)	i
I	Akoustolith Tile Grade C	R. Guastavino Company	5"	5	24.4	i
II	Calicel Acoustic Tile	The Celotex Corporation	1"	5	2.66	i
II	Celical Acoustic Tile	" "	1 1/2"	5	3.42	i
IV	Perfatone, Rockwool pad plus metal facing & pad supports, plus furring 6"	U. S. Gypsum Company	-	8	.93 (pad)	i
TYPE		Class Oc (.80) Noise Coefficients				
VII	Absorbet Type A	The Celotex Corporation	1"	9	2.6	r
I	Akoustolith Tile Grade B-1	R. Guastavino Company	1 1/2"	5	5.8	i
I	Akoustolith Tile Grade C	" "	4"	10	19.5	i
I	Akoustolith Tile Grade C	" "	4"	4	19.5	i
I	Akoustolith Tile Grade D	" "	4"	10	18.2	i
I	Akoustolith Tile Grade D	" "	4"	4	13.8	i
II	Berry-Cel	F. E. Berry, Jr. & Co., Inc.	1"	8	2.57	i
I	Calistone	The Celotex Corporation	2"	5	9.3	i
I	Calistone	" "	5"	4	22.4	i
I	Calistone Type Y	" "	5"	4	25.7	i
IV	Sanacoustic Pad, plus metal facing, pad supports and furring 2 1/4"	Johns-Manville Sales Corp.	-	3	1.2 (pad)	i

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
CLASS DD (.75)						
Noise Coefficients						
TYPE		The Celotex Corporation	2"	4	-	r
VII	Absorbex Type A on 1"					
	Absorbex Type F (10 gauge)					
VII	Absorbex Type F (8 gauge)	"	2"	7	4.7	r
V	Acousti-Celotex Type C4	"	1 1/4"	8	1.44	c
V	Acousti-Celotex Type C5	"	13/16"	2	.86	c
V	Acousti-Celotex Type M3	"	1 1/4"	1	2.58	i
I	Acoustolith Tile Grade B-1	R. Gunstavo Co.	2"	5	9.4	i
I	Basalt Rock Type A	Basalt Rock Company	5"	4	25.2	i
II	Calicel Acoustic Tile	The Celotex Corporation	1 1/2"	1	3.42	i
I	Calistone	"	2"	4	9.3	i
I	Calistone, Long edges splayed on opposite sides, 5 holes 3" in diam. through body of tile	"	4"	4	17.6	i
II	Mufletone, Standard Finish	"				
IV	Mutetile (2" Rockwool)	Acoustical Corp. of America	1"	1	1.83	i
VI	Permacoustic	Johns-Manville Sales Corp.	1"	5	2.33	i
VI	Permacoustic	"	1"	1	2.33	i

CLASS EE (.70)

Noise Coefficients

TYPE		National Gypsum Company	7/8"	2	1.79	r
VII	Acoustex Type 50R	"	1"	2	2.07	r
VII	Acoustex Type 60R	"				
V	Acousti-Celotex Type C3	The Celotex Corporation	13/16"	8	1.09	c
V	Acousti-Celotex Type C3, slow burning	"	13/16"	8	1.06	s
V	Acousti-Celotex Type C4, slow burning	"	1 1/4"	1	1.80	s
V	Acousti-Celotex Type C4, slow burning	"	1 1/4"	8	1.93	s
V	Acousti-Celotex Type C6 slow burning	"	1 1/4"	4	1.44	c
V	Acousti-Celotex Type M2	"	1"	8	2.32	i

PRE-FABRICATED ACUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight- (lb)	Fire Resistance
SS-A-118					sq. ft.	
CLASS EE (.70) Continued						
Noise Coefficients						
VI	Acoustone Type D	U. S. Gypsum Company	3/4"	1	1.25	i
VI	Acoustone Type D	" " "	1"	1	1.50	i
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1"	11	1.51	r
I	Acoustolith Tile Grade B-2	R. Gustavino Company	2"	4	3.5	i
II	Calical Acoustic Tile	The Celotex Corporation	1"	1	2.60	i
VII	Fibretext Type 50R	Johns-Manville Sales Corp.	7/8"	2	1.79	r
VII	Fibretext Type 60R	" " "	1"	2	2.07	r
VIII	Gold Bond Fiber Acoustic Unit	National Gypsum Company	1"	1	0.71	c
II	Muffleton, Standard Finish	The Celotex Corporation	1"	1	1.84	i
VIII	Studio Element	Johns-Manville Sales Corp.	1"	4	1.47	-

CLASS EE (.65)

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 70R	" " "	1 1/8"	1	-	r
V	Acousti-Celotex Type C2	The Celotex Corporation	5/8"	2	.88	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	1.11	c
V	Acousti-Celotex Type C3	" " "	13/16"	1	0.94	c
V	Acousti-Celotex Type C4	" " "	1 1/4"	1	1.58	c
V	Acousti-Celotex Type M1	" " "	9/16"	1	1.23	i
VIII	Acoustilite	The Insulite Company	3/4"	1	.59	c
VI	Acoustone Type F	U. S. Gypsum Company	3/4"	1	1.28	i
I	Acoustolith Tile Grade B-2	R. Gustavino Company	1 1/2"	4	6.1	i
VII	Fibretext Type 30R	Johns-Manville Sales Corp.	5/8"	2	1.34	r
VII	Fibretext Type 40R	" " "	3/4"	2	1.54	r
VIII	Hawaiian Cane Tile	Hawaiian Cane Products Co.	1"	1	0.75	c
II	Kalite, Grade A (Coarse)	Certain-teed Products Corp.	2"	4	-	i
VII	Zencoustex	David E. Kennedy, Inc.	1"	1	2.24	r

PRE-FABRICATED ACOUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb)	Fire Resistance
SS-A-118					sq ft	
CLASS FF (.65) Continued						
Noise Coefficients						
TYPE						
VIII	Maizewood Tile	Maizewood Products Corp.	1 1/2"	4	2.1	c
II	Muffletone, Travertine Finish	The Celotex Corporation	1"	1	1.96	i
VIII	Quietone	U. S. Gypsum Company	1"	4	0.81	c
I	Sphinxstone	The Sphinx Acoustical Co.	2"	4	-	i
III	Spongeacoustic	Johns-Manville Sales Corp.	3/4"	1	1.58	i
IV	Transite Acoustical Unit	" " "	1 1/8"	4	3.0	i
CLASS GG (.60)						
Noise Coefficients						
TYPE						
VII	Absorbex Type A	The Celotex Corporation	1"	1	2.4	r
VII	Acoustex Type BOR	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, slow burning	" " "	5/8"	1	.89	s
V	Acousti-Celotex Type C2	" " "	5/8"	2	1.07	s
V	Acousti-Celotex Type C3, slow burning, painted by mfr.	" " "	13/16"	1	1.35	s
V	Acousti-Celotex Type C3, slow burning	" " "	13/16"	1	1.35	s
VIII	Air-Acoustic Sheets	Johns-Manville Sales Corp.	1/2"	11	.80	r
II	Calicel Acoustic Tile	The Celotex Corporation	3/4"	1	-	i
I	Calistone	" " "	4"	4	17.8	i
II	Ceramacoustic	Armstrong Cork Company	1 1/8"	1	3.4	i
II	Kalite, Grade A (Coarse)	Certain-teed Products Corp.	1 1/2"	4	-	i
II	Muffletone, Standard Finish	The Celotex Corporation	3/4"	1	1.62	i
VI	Rockoustile	Johns-Manville Sales Corp.	7/8"	1	-	-
VI	Rockoustile	" " "	1"	1	1.3	-
II	Sound-Cor	Sound Control Corporation	1"	1	1.40	-
II	Sound-Cor	" " "	1"	1	1.14	-
II	Sound-Cor	" " "	1 1/8"	3	1.41	-
VIII	Temcooustic F-2	Armstrong Cork Company	7/8"	1	1.02	c

PRE-FABRICATED ACUSTIC UNITS

FEDERAL SPECIFICATION SS-A-118	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb) sq ft	Fire Resistance
CLASS HI (.55)						
Noise Coefficients						
TYPE		The Celotex Corporation	1"	2	-	r
VII	Absorbex Type C (14 gauge)	"	13/16"	1	-	c
V	Acousti-Celotex Type C5	"	1/2"	1	1.39	i
V	Acousti-Celotex Type MU-1	"	1/2"	1	.76	r
VI	Acoustone Type D	U. S. Gypsum Company	1"	4	4.6	i
I	Acoustolith Tile Grade E-2	R. Guastavino Company	2"	4	10.1	i
I	Acoustolith Tile Grade C	"	2"	4	-	i
I	Acoustolith Tile Grade D	"	2"	4	-	i
VI	Corkoustic Type E5	Armstrong Cork Company	1 1/8"	1	.75	s
VI	Corkoustic Type B5	"	1 1/8"	2	.75	s
VI	Corkoustic Type B5	"	1 1/8"	1	.82	s
VI	Corkoustic Type E6	"	1 1/8"	1	.85	s
VIII	Hawaiian Cane Tile	Hawaiian Cane Products, Ltd.	1"	2	.81	c
VIII	Fiberlite	The Insulite Company	1/2"	1	.41	c
II	Kalite, Grade D (Fine)	Certain-teed Products Corp.	1 1/8"	4	-	i
II	Kalite, Grade D (Fine)	"	2"	4	-	i
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
CLASS II (.50)						
Noise Coefficients						
TYPE		National Gypsum Company	3/4"	1	1.75	r
VII	Accoustex Type 40R	R. Guastavino Company	1 1/8"	4	7.5	i
I	Acoustolith Tile Grade C	Armstrong Cork Company	1 1/8"	1	.63	s
VI	Corkoustic Type E4	Johrs-Manville Sales Corp.	3/4"	1	1.75	r
VII	Fibretext Type 40R	Certain-teed Products Corp.	1"	4	-	i
II	Kalite, Grade A (Coarse)	David E. Kennedy, Inc.	1 1/8"	1	.88	s
VI	Kencoustic (cork)					

PRE-FABRICATED ACUSTIC UNITS

FEDERAL SPECIFICATION	Material	Manufacturer	Thick- ness	Mount- ing	Weight (lb)	Fire Resistance
SS-A-118					sq. ft.	
CLASS JJ (.45)						
Noise Coefficients						
TYPE						
VII	Absorbex Type C	The Celotex Corporation	1"	4	-	r
VII	Absorbex Type F (10 gauge)	" "	1"	2	-	r
V	Acousti-Celotex Type C1	" "	1 1/2"	1	.78	c
II	Kalite, Grade D (Fine)	Certain-teed Products Corp.	1"	4	-	i
VI	Kencoustic (cork) Type CB-1.5	David E. Kennedy, Inc.	1 1/2"	1	-	s
II	Sound-Cor	Sound Control Corporation	1 1/8"	8	1.6	-
CLASS KK (.40)						
Noise Coefficients						
TYPE						
V	Acousti-Celotex Type C1, slow burning	The Celotex Corporation	1 1/2"	1	.82	s
I	Akoustolith Tile Grade D	R. Gustavino Company	1"	4	-	i
VI	Acoustical Cork "B"	United Cork Companies	1 1/4"	2	.94	s
VI	Corinco Acousticator	Cork Insulation Company	1 1/2"	2	1.07	s
VIII	Temlok Deluxe	Armstrong Cork Company	7/8"	4	1.19	c
VIII	Temlok Deluxe	" "	1 3/8"	4	1.65	c
CLASS LL (.35)						
Noise Coefficients						
TYPE						
VI	Corinco Acousticator	Cork Insulation Company	1 1/4"	1	1.20	s
VI	Cork	Armor Insulating Company	1"	1	.67	s
VI	Cork	" "	1 1/2"	1	.9	s
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 1/2"	6	0.69	c
VIII	Temlok Deluxe	Armstrong Cork Company	1 1/2"	4	1.12	c
CLASS OO (.20)						
Noise Coefficients						
TYPE						
II	KenKoustone	David E. Kennedy, Inc.	1"	1	2.34	-

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFI- CATION	Material	Manufacturer	Thickness
CLASS A (.90 or over)			
-	Sound Absorption Coefficients (at 512 cycles per second) Limpet (Sprayed Asbestos), Applied with air gun on metal lath, finished with roller.	Keasbey & Mattison Company	3/4"
CLASS C (.80 to .84)			
-	Sound Absorption Coefficients (at 512 cycles per second) Limpet (Sprayed Asbestos), Applied with air gun on metal lath, finished with roller.	Keasbey & Mattison Company	1/2"
-	Limpet (Sprayed Asbestos), Applied with air gun on Gypsum wall board, finished with roller.	Keasbey & Mattison Company	1"
CLASS D (.75 to .79)			
-	Sound Absorption Coefficients (at 512 cycles per second) Limpet (Sprayed Asbestos), Applied with air gun on metal lath, finished with roller.	Keasbey & Mattison Company	3/8"
CLASS F (.65 to .69)			
-	Sound Absorption Coefficients (at 512 cycles per second) Limpet (Sprayed Asbestos), Applied with air gun on Gypsum wall board, finished with roller.	Keasbey & Mattison Company	3/4"
SS-P-391	Macoustic Plaster, trowel finish	National Gypsum Company	3/4"
SS-P-391	Stucoustic Plaster Type A.D.	California Stucco Products of New England, Inc.	3/4"
CLASS G (.60 to .64)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Kalite Plaster H, coarse aggregate	Certain-teed Products Corp.	3/4"
SS-P-391	Old Newark Acoustic Plaster	Newark Plaster Company	3/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFI- CATION	Material	Manufacturer	Thickness
CLASS H (.55 to .59)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Sabinite Plaster A	U. S. Gypsum Company	3/4"
CLASS I (.50 to .54)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	5/8"
SS-P-391	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
SS-P-391	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
SS-P-391	Stucoustic Plaster, Type A.D.	California Stucco Products of New England, Inc.	1/2"
CLASS J (.45 to .49)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Hushkote Acoustic Plaster	Cleveland Gypsum Supply Co.	1/2"
SS-P-391	Hushkote Acoustic Plaster	" "	3/4"
SS-P-391	Kalite Plaster H, Coarse Aggregate	Certain-teed Products Corp.	1/2"
-	Limpet (Sprayed Asbestos), Applied with air gun on gypsum wall board, finished with roller.	Keasbey & Mattison Company	1/2"
SS-P-391	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"
CLASS K (.40 to .44)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
SS-P-391	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
SS-P-391	Old Newark Acoustic Plaster	Newark Plaster Company	1/2"
SS-P-391	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
SS-P-391	Sabinite Plaster F	U. S. Gypsum Company	1/2"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFI- CATION	Material	Manufacturer	Thickness
CLASS L (.35 to .39)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Akoustolith Plaster	R. Guastavino Company	3/4"
SS-P-391	Rockwall Acoustic Plaster	National Gypsum Company	1/2"
SS-P-391	Sabinite Plaster A	U. S. Gypsum Company	1/2"
CLASS M (.30 to .34)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
CLASS N (.25 to .29)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-F-391	Sabinite Plaster Hydraulic	U. S. Gypsum Company	1/2"
CLASS P (less than .20)			
Sound Absorption Coefficients (at 512 cycles per second)			
SS-P-391	Akoustolith Plaster	R. Guastavino Company	1/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFI- CATION	Material	Manufacturer	Thickness
CLASS Q (.65 or .90) Noise Coefficients			
-	Limpet (Sprayed Asbestos), Applied with air gun on metal lath.	Keasbey & Mattison Co.	1/2"
-	Limpet (Sprayed Asbestos), " " " " " "	" " " "	3/4"
CLASS R (.75 or .80) Noise Coefficients			
-	Limpet (Sprayed Asbestos), Applied with air gun on metal lath.	Keasbey & Mattison Co.	3/8"
CLASS S (.65 or .70) Noise Coefficients			
-	Limpet (Sprayed Asbestos), Applied with air gun on gypsum wall board.	Keasbey & Mattison Co.	3/4"
-	Limpet (Sprayed Asbestos), " " " " " "	Keasbey & Mattison Co.	1"
CLASS T (.55 or .60) Noise Coefficients			
SS-P-391	Kalite Plaster H, Coarse Aggregate	Certain-tee Products Corp.	3/4"
SS-P-391	Kalite Plaster H, Coarse Aggregate	" " " "	1/2"
-	Limpet (Sprayed Asbestos), Applied with air gun on gypsum wall board.	Keasbey & Mattison Co.	1/2"
SS-P-391	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
SS-P-391	Macoustic Plaster, trowel finish	" " " "	3/4"
SS-P-391	Old Newark Acoustic Plaster	Newark Plaster Company	3/4"
SS-P-391	Reverbolite Plaster (Regular)	The Celotex Corporation	1/2"
SS-P-391	Sabinite Plaster A	U. S. Gypsum Company	1/2"
SS-P-391	Sabinite Plaster F	" " " "	1/2"
SS-P-391	Sabinite Plaster A	" " " "	3/4"
SS-P-391	Stuacoustic Plaster Type A.D.	California Stucco Products of New England, Inc.	1/2"
SS-P-391	Stuacoustic Plaster Type A.D.	" " " "	3/4"

ACOUSTIC MATERIALS FOR PLASTIC APPLICATION

FEDERAL SPECIFI- CATION	Material	Manufacturer	Thickness
CLASS U (.45 or .50) Noise Coefficients			
SS-P-391	Acoustolith Plaster	R. Guastavino Company	3/4"
SS-P-391	Calacoustic Plaster	Pacific Portland Cement Co.	1/2"
SS-P-391	Hushkote Acoustic Plaster	Cleveland Gypsum Co.	1/2"
SS-P-391	Hushkote Acoustic Plaster	" " "	5/8"
SS-P-391	Hushkote Acoustic Plaster	" " "	3/4"
SS-P-391	Old Newark Acoustic Plaster	Newark Plaster Co.	1/2"
SS-P-391	Reverbolite Plaster (Pumice Aggregate)	The Celotex Corporation	1/2"
SS-P-391	Rockwall Acoustic Plaster, trowel finish	National Gypsum Co.	1/2"
SS-P-391	Super-Acoustic Plaster	Gypsum Insulation & Mfg. Co.	1/2"
CLASS V (.35 or .40) Noise Coefficients			
SS-P-391	Dodson Acoustic Plaster	The Dodson Manufacturing Co.	3/4"
SS-P-391	Macoustic Plaster, trowel finish	National Gypsum Company	1/2"
SS-P-391	Rockwall Acoustic Plaster, cork float finish	" " "	1/2"
SS-P-391	Sabinite Plaster (Hydraulic)	U. S. Gypsum Company	1/2"
CLASS W (.25 or .30) Noise Coefficients			
SS-P-391	Acoustolith Plaster	R. Guastavino Company	1/4"

