

TAL Requisition

T - 702533 Printed: 6/8/2022

Title: Turf PD-MFR Acoustic Testing

Submitted: 05-10-22

Originator: Zachary A Bock

Purpose: GENERAL

Report Number:

Accounting Code: amf114

Status: Complete

Delivery Point: Acoustics (B9)

Expected Arrival: 04-29-22

Estimated Cost: \$6,536.10

Special Instructions: installation: all samples hung as shown in the photos below. vertical supports were spaced 21" from the NS edges and 24" from the EW edges. all baffles were installed 2.5" above the test surface. A test area of 96"x96" was used for all installations except those spaced 18" o.c., where 96"x108" was

used.

			Tests _		
1 N	RC: A,D, and E mounts. (AL10a) - Status: Authorized Modifications: 12" OC spacing Mounting: Other	- ACOUSTICS	Disposition: HOLD_REVIEW	Det: 1 Est Comp Date: Assigned Operator: Zachary A Bock	TM 417 R.2 Completed Date: 06-08-22
2 N	RC: A,D, and E mounts. (AL10a) - Status: Authorized Modifications: 18" OC spacing Mounting: Other	- ACOUSTICS	Disposition: HOLD_REVIEW	Det: 1 Est Comp Date: Assigned Operator: Zachary A Bock	TM 417 R.2 Completed Date: 06-08-22
3 N	RC: A,D, and E mounts. (AL10a) - Status: Authorized Modifications: 24" OC spacing Mounting: Other	- ACOUSTICS	Disposition: HOLD_REVIEW	Det: 1 Est Comp Date: Assigned Operator: Zachary A Bock	TM 417 R.2 Completed Date: 06-08-22
4 N	RC: A,D, and E mounts. (AL10a) - Status: Authorized Modifications: 6" OC spacing Mounting: Other	- ACOUSTICS	Disposition: HOLD_REVIEW	Det: 1 Est Comp Date: Assigned Operator: Zachary A Bock	TM 417 R.2 Completed Date: 06-08-22
5 Ad	coustic Thickness and PSF (AL5) - Status: Authorized Modifications:	ACOUSTICS	Disposition:	Det: 1 Est Comp Date: Assigned Operator: Zachary A Bock	Completed Date: 06-08-22
			Materials		
5837 one	NO SPECIFICATION	URF	FINISHED Product	Standard Production Shipped: 0	(:
	Status: Complete Edge: Tests: 1, 4, 5	Grid:		Thickness:	
838 one	NO SPECIFICATION	URF	FINISHED Product	Standard Production Shipped: 0	(:
	Status: Complete Edge:	Grid:		Thickness:	702533 - Pa

702533 - Page 1 of 58



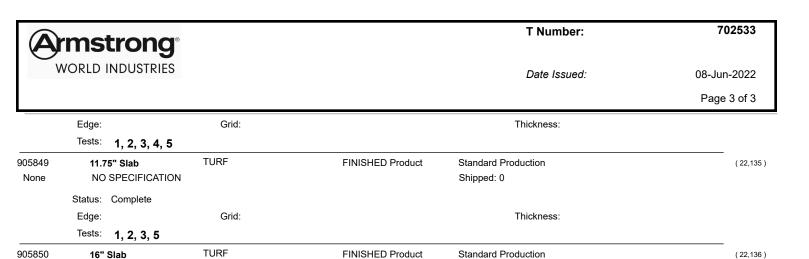
T Number: 702533

Date Issued:

08-Jun-2022

Page 2 of 3

	Tests: 1, 2, 3, 4, 5				
905839 None	7.5" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,125)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 4, 5				
05840 None	9.375" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,126)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 4, 5				
05841 None	12" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,127)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 5				
05842 None	16" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,128)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 5				
05843 None	24" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,129)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 5				
05844 None	48" Straight NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,130)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 3, 5				
05845	4" Slab	TURF	FINISHED Product	Standard Production	(22,131)
None	NO SPECIFICATION			Shipped: 0	
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 4, 5				
05846 None	4.625" Slab NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,132)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 4, 5				
05847 None	5.625" Slab NO SPECIFICATION	TURF	FINISHED Product	Standard Production Shipped: 0	(22,133)
	Status: Complete				
	Edge:	Grid:		Thickness:	
	Tests: 1, 2, 3, 4, 5				
05848	8.68" Slab	TURF	FINISHED Product	Standard Production	(22,134)
None	NO SPECIFICATION			Shipped: 0	702533 - Page 2
	Status: Complete				, 02000 1 age 2 (



FINISHED Product

Shipped: 0

Shipped: 0

Standard Production

Thickness:

Thickness:

NO SPECIFICATION

1, 2, 3, 5

NO SPECIFICATION

1, 2, 3, 5

Grid:

Grid:

TURF

Status: Complete

20" Slab

Status: Complete

Edge:

Tests:

Edge:

Tests:

None

905851

None

(22,137)

Modification: 6" OC spacing

Sample ID: 4" Straight Lot: 905837 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149141 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	Alpha
100	0.00
125	0.02
160	0.05
200	0.05
250	0.11
315	0.16
400	0.21
500	0.28
630	0.33
800	0.37
1000	0.43
1250	0.57
1600	0.71
2000	0.81
2500	0.92
3150	0.98
4000	1.01
5000	1.03
NRC:	0.40
SAA:	0.41
FFA:	0.409
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 4" Straight Lot: 905837 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149159 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.02
125	0.04
160	0.03
200	0.02
250	0.06
315	0.08
400	0.13
500	0.18
630	0.20
800	0.24
1000	0.28
1250	0.38
1600	0.51
2000	0.57
2500	0.60
3150	0.64
4000	0.67
5000	0.68
NRC:	0.25
SAA:	0.27
FFA:	0.273
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 6" Straight Lot: 905838 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149131 Mounting: Other

Operator: ZABOCK
Test Date: 5/24/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.04
125	0.09
160	0.10
200	0.13
250	0.25
315	0.33
400	0.40
500	0.44
630	0.46
800	0.49
1000	0.59
1250	0.74
1600	0.86
2000	0.97
2500	1.07
3150	1.11
4000	1.15
5000	1.17
NRC:	0.55
SAA:	0.56
FFA:	0.564
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Comments: 16 baffles used

Modification: 12" OC spacing

Sample ID: 6" Straight Lot: 905838 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149143 Mounting: Other

Operator: ZABOCK
Test Date: 5/24/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.07
125	0.09
160	0.07
200	0.10
250	0.16
315	0.24
400	0.30
500	0.33
630	0.32
800	0.35
1000	0.40
1250	0.52
1600	0.59
2000	0.70
2500	0.76
3150	0.79
4000	0.84
5000	0.84
NRC:	0.40
SAA:	0.40
FFA:	0.399
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 6" Straight Lot: 905838 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149173 Mounting: Other

Operator: ZABOCK
Test Date: 5/24/2022

Frequency	<u>Alpha</u>
100	0.03
125	0.06
160	0.05
200	0.09
250	0.12
315	0.18
400	0.22
500	0.21
630	0.25
800	0.26
1000	0.31
1250	0.38
1600	0.46
2000	0.52
2500	0.56
3150	0.58
4000	0.62
5000	0.64
NRC:	0.30
SAA:	0.30
FFA:	0.291
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 6" Straight Lot: 905838 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149189 Mounting: Other

Operator: ZABOCK
Test Date: 5/24/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.00
125	0.01
160	0.03
200	0.07
250	0.10
315	0.14
400	0.15
500	0.19
630	0.21
800	0.23
1000	0.27
1250	0.31
1600	0.37
2000	0.42
2500	0.47
3150	0.47
4000	0.50
5000	0.50
NRC:	0.25
SAA:	0.24
FFA:	0.245
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 7.5" Straight Lot: 905839 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147641 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.07
125	0.12
160	0.16
200	0.23
250	0.33
315	0.39
400	0.45
500	0.46
630	0.48
800	0.57
1000	0.75
1250	0.86
1600	0.97
2000	1.09
2500	1.18
3150	1.22
4000	1.25
5000	1.25
NRC:	0.65
SAA:	0.65
FFA:	0.659
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 7.5" Straight Lot: 905839 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147671 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.04
125	0.07
160	0.12
200	0.18
250	0.25
315	0.29
400	0.35
500	0.38
630	0.35
800	0.39
1000	0.50
1250	0.63
1600	0.71
2000	0.80
2500	0.85
3150	0.87
4000	0.88
5000	0.91
NRC:	0.50
SAA:	0.47
FFA:	0.483
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 7.5" Straight Lot: 905839 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147709 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.02
125	0.05
160	0.08
200	0.13
250	0.19
315	0.24
400	0.25
500	0.25
630	0.28
800	0.31
1000	0.39
1250	0.45
1600	0.54
2000	0.60
2500	0.63
3150	0.65
4000	0.67
5000	0.69
NRC:	0.35
SAA:	0.35
FFA:	0.357
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 7.5" Straight Lot: 905839 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147733 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.05
125	0.05
160	0.07
200	0.11
250	0.18
315	0.18
400	0.21
500	0.24
630	0.23
800	0.26
1000	0.33
1250	0.37
1600	0.43
2000	0.49
2500	0.52
3150	0.53
4000	0.55
5000	0.55
NRC:	0.30
SAA:	0.30
FFA:	0.308
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 9.375" Straigh Lot: 905840 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147645 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.10
125	0.19
160	0.24
200	0.30
250	0.44
315	0.52
400	0.55
500	0.55
630	0.57
800	0.72
1000	0.89
1250	0.95
1600	1.06
2000	1.18
2500	1.25
3150	1.30
4000	1.30
5000	1.32
NRC:	0.75
SAA:	0.75
FFA:	0.767
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 9.375" Straigh Lot: 905840 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147673 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	Alpha
100	0.10
125	0.17
160	0.16
200	0.25
250	0.34
315	0.41
400	0.45
500	0.45
630	0.42
800	0.48
1000	0.60
1250	0.71
1600	0.81
2000	0.90
2500	0.94
3150	0.98
4000	0.98
5000	1.03
NRC:	0.55
SAA:	0.56
FFA:	0.573
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 9.375" Straigh Lot: 905840 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147711 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	Alpha
100	0.05
125	0.10
160	0.15
200	0.21
250	0.29
315	0.34
400	0.34
500	0.32
630	0.35
800	0.40
1000	0.47
1250	0.53
1600	0.60
2000	0.67
2500	0.73
3150	0.76
4000	0.75
5000	0.78
NRC:	0.45
SAA:	0.44
FFA:	0.440
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 9.375" Straigh Lot: 905840 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147735 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

Frequency	<u>Alpha</u>
100	0.05
125	0.09
160	0.12
200	0.14
250	0.25
315	0.25
400	0.29
500	0.32
630	0.30
800	0.34
1000	0.40
1250	0.46
1600	0.50
2000	0.55
2500	0.61
3150	0.61
4000	0.62
5000	0.64
NRC:	0.40
SAA:	0.37
FFA:	0.381
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 12" Straight Lot: 905841 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149145 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	Alpha
100	0.11
125	0.24
160	0.26
200	0.31
250	0.44
315	0.48
400	0.50
500	0.48
630	0.56
800	0.63
1000	0.72
1250	0.85
1600	0.95
2000	1.04
2500	1.08
3150	1.14
4000	1.14
5000	1.16
NRC:	0.65
SAA:	0.67
FFA:	0.670
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 12" Straight Lot: 905841 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149161 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.08
125	0.18
160	0.21
200	0.25
250	0.37
315	0.41
400	0.38
500	0.37
630	0.43
800	0.51
1000	0.56
1250	0.66
1600	0.73
2000	0.80
2500	0.84
3150	0.88
4000	0.90
5000	0.90
NRC:	0.55
SAA:	0.53
FFA:	0.525
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 12" Straight Lot: 905841 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149175 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

Frequency	<u>Alpha</u>
100	0.12
125	0.15
160	0.16
200	0.22
250	0.33
315	0.34
400	0.33
500	0.34
630	0.37
800	0.43
1000	0.50
1250	0.54
1600	0.62
2000	0.67
2500	0.71
3150	0.73
4000	0.76
5000	0.77
NRC:	0.45
SAA:	0.45
FFA:	0.462
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 16" Straight Lot: 905842 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149147 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	Alpha
100	0.24
125	0.39
160	0.38
200	0.44
250	0.51
315	0.54
400	0.59
500	0.67
630	0.75
800	0.78
1000	0.89
1250	0.99
1600	1.10
2000	1.23
2500	1.28
3150	1.32
4000	1.32
5000	1.32
NRC:	0.85
SAA:	0.81
FFA:	0.825
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 16" Straight Lot: 905842 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149163 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.15
125	0.28
160	0.33
200	0.37
250	0.46
315	0.47
400	0.46
500	0.47
630	0.56
800	0.65
1000	0.73
1250	0.79
1600	0.89
2000	0.98
2500	1.02
3150	1.07
4000	1.07
5000	1.08
NRC:	0.65
SAA:	0.65
FFA:	0.659
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 16" Straight Lot: 905842 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149177 Mounting: Other

Operator: ZABOCK
Test Date: 5/25/2022

_	
<u>Frequency</u>	<u>Alpha</u>
100	0.15
125	0.29
160	0.29
200	0.33
250	0.40
315	0.39
400	0.41
500	0.45
630	0.51
800	0.55
1000	0.61
1250	0.67
1600	0.75
2000	0.82
2500	0.85
3150	0.91
4000	0.91
5000	0.92
NRC:	0.55
SAA:	0.56
FFA:	0.568
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 24" Straight Lot: 905843 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149149 Mounting: Other

Operator: ZABOCK
Test Date: 5/23/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.36
125	0.51
160	0.46
200	0.54
250	0.63
315	0.74
400	0.88
500	0.98
630	1.00
800	1.02
1000	1.18
1250	1.31
1600	1.45
2000	1.60
2500	1.66
3150	1.69
4000	1.69
5000	1.68
NRC:	1.10
SAA:	1.08
FFA:	1.097
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Comments: 8 baffles used

Modification: 18" OC spacing

Sample ID: 24" Straight Lot: 905843 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149165 Mounting: Other

Operator: ZABOCK
Test Date: 5/23/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.28
125	0.47
160	0.36
200	0.43
250	0.53
315	0.59
400	0.70
500	0.70
630	0.79
800	0.86
1000	0.97
1250	1.07
1600	1.18
2000	1.31
2500	1.36
3150	1.39
4000	1.39
5000	1.39
NRC:	0.90
SAA:	0.87
FFA:	0.877
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Comments: 6 baffles used

Modification: 24" OC spacing

Sample ID: 24" Straight Lot: 905843 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149179 Mounting: Other

Operator: ZABOCK
Test Date: 5/20/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.31
125	0.43
160	0.45
200	0.42
250	0.50
315	0.52
400	0.58
500	0.65
630	0.71
800	0.77
1000	0.84
1250	0.92
1600	1.03
2000	1.10
2500	1.16
3150	1.21
4000	1.22
5000	1.24
NRC:	0.75
SAA:	0.77
FFA:	0.772
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Comments: 4 blades used

Modification: 24" OC spacing

Sample ID: 48" Straight Lot: 905844 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149181 Mounting: Other

Operator: ZABOCK
Test Date: 5/24/2022

Frequency	<u>Alpha</u>
100	0.49
125	0.59
160	0.54
200	0.71
250	0.93
315	0.99
400	1.04
500	1.15
630	1.22
800	1.33
1000	1.47
1250	1.57
1600	1.73
2000	1.88
2500	1.99
3150	2.00
4000	2.03
5000	2.08
NRC:	1.35
SAA:	1.33
FFA:	1.356
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 4" Slab Lot: 905845 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149133 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

Frequency	<u>Alpha</u>
100	0.07
125	0.08
160	0.16
200	0.19
250	0.32
315	0.43
400	0.62
500	0.73
630	0.78
800	0.83
1000	0.91
1250	1.07
1600	1.06
2000	1.11
2500	1.19
3150	1.24
4000	1.27
5000	1.24
NRC:	0.75
SAA:	0.77
FFA:	0.769
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 4" Slab Lot: 905845 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149151 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

Frequency	Alpha
<u> </u>	
100	0.06
125	0.04
160	0.10
200	0.12
250	0.19
315	0.25
400	0.37
500	0.46
630	0.48
800	0.53
1000	0.62
1250	0.77
1600	0.80
2000	0.83
2500	0.87
3150	0.92
4000	0.94
5000	0.92
NRC:	0.50
SAA:	0.52
FFA:	0.523
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 4.625" Slab Lot: 905846 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149135 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.09
125	0.11
160	0.15
200	0.25
250	0.40
315	0.57
400	0.69
500	0.79
630	0.83
800	0.83
1000	0.94
1250	1.12
1600	1.15
2000	1.18
2500	1.23
3150	1.25
4000	1.26
5000	1.26
NRC:	0.85
SAA:	0.83
FFA:	0.827
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 4.625" Slab Lot: 905846 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149153 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.05
125	0.09
160	0.08
200	0.14
250	0.24
315	0.33
400	0.43
500	0.51
630	0.55
800	0.57
1000	0.62
1250	0.79
1600	0.86
2000	0.90
2500	0.92
3150	0.94
4000	0.94
5000	0.96
NRC:	0.55
SAA:	0.57
FFA:	0.567
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 4.625" Slab Lot: 905846 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149167 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.05
125	0.05
160	0.05
200	0.09
250	0.17
315	0.25
400	0.30
500	0.35
630	0.40
800	0.43
1000	0.49
1250	0.59
1600	0.63
2000	0.69
2500	0.70
3150	0.73
4000	0.74
5000	0.75
NRC:	0.40
SAA:	0.42
FFA:	0.424
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 4.625" Slab Lot: 905846 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149183 Mounting: Other

Operator: ZABOCK
Test Date: 5/31/2022

<u>Frequency</u>	Alpha
100	0.06
125	0.06
160	0.04
200	0.07
250	0.15
315	0.19
400	0.26
500	0.31
630	0.34
800	0.37
1000	0.41
1250	0.49
1600	0.53
2000	0.56
2500	0.57
3150	0.58
4000	0.61
5000	0.62
NRC:	0.35
SAA:	0.35
FFA:	0.358
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 5.625" Slab Lot: 905847 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149137 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.09
125	0.15
160	0.22
200	0.31
250	0.51
315	0.64
400	0.79
500	0.81
630	0.81
800	0.85
1000	1.03
1250	1.18
1600	1.19
2000	1.27
2500	1.26
3150	1.32
4000	1.31
5000	1.30
NRC:	0.90
SAA:	0.89
FFA:	0.905
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 5.625" Slab Lot: 905847 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149155 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.07
125	0.08
160	0.13
200	0.18
250	0.31
315	0.40
400	0.53
500	0.55
630	0.54
800	0.57
1000	0.70
1250	0.90
1600	0.94
2000	1.00
2500	0.97
3150	1.00
4000	1.02
5000	1.00
NRC:	0.65
SAA:	0.63
FFA:	0.642
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Comments:

Modification: 18" OC spacing

Sample ID: 5.625" Slab Lot: 905847 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149169 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.04
125	0.05
160	0.09
200	0.14
250	0.25
315	0.30
400	0.37
500	0.41
630	0.43
800	0.44
1000	0.54
1250	0.66
1600	0.71
2000	0.75
2500	0.75
3150	0.78
4000	0.79
5000	0.77
NRC:	0.50
SAA:	0.48
FFA:	0.487
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 5.625" Slab Lot: 905847 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149185 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.05
125	0.05
160	0.07
200	0.11
250	0.20
315	0.23
400	0.29
500	0.35
630	0.36
800	0.39
1000	0.46
1250	0.55
1600	0.58
2000	0.61
2500	0.63
3150	0.64
4000	0.65
5000	0.62
NRC:	0.40
SAA:	0.40
FFA:	0.405
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 6" OC spacing

Sample ID: 8.68" Slab Lot: 905848 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149139 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.14
125	0.27
160	0.46
200	0.50
250	0.70
315	0.81
400	0.85
500	0.81
630	0.90
800	1.12
1000	1.25
1250	1.38
1600	1.42
2000	1.44
2500	1.44
3150	1.45
4000	1.46
5000	1.44
NRC:	1.05
SAA:	1.05
FFA:	1.050
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 8.68" Slab Lot: 905848 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149157 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.11
125	0.18
160	0.27
200	0.34
250	0.51
315	0.57
400	0.62
500	0.59
630	0.62
800	0.77
1000	0.96
1250	1.10
1600	1.18
2000	1.20
2500	1.21
3150	1.21
4000	1.20
5000	1.20
NRC:	0.80
SAA:	0.80
FFA:	0.815
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 8.68" Slab Lot: 905848 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149171 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

<u>Frequency</u>	Alpha
100	0.10
125	0.12
160	0.21
200	0.26
250	0.38
315	0.45
400	0.46
500	0.45
630	0.49
800	0.63
1000	0.78
1250	0.88
1600	0.93
2000	0.96
2500	0.97
3150	0.98
4000	0.97
5000	0.98
NRC:	0.65
SAA:	0.64
FFA:	0.643
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 8.68" Slab Lot: 905848 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 149187 Mounting: Other

Operator: ZABOCK
Test Date: 5/26/2022

_	
<u>Frequency</u>	<u>Alpha</u>
100	0.09
125	0.09
160	0.17
200	0.22
250	0.32
315	0.35
400	0.41
500	0.41
630	0.42
800	0.52
1000	0.64
1250	0.72
1600	0.78
2000	0.82
2500	0.81
3150	0.83
4000	0.84
5000	0.81
NRC:	0.55
SAA:	0.53
FFA:	0.548
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 11.75" Slab Lot: 905849 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147695 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.17
125	0.28
160	0.37
200	0.49
250	0.62
315	0.65
400	0.66
500	0.65
630	0.81
800	0.98
1000	1.08
1250	1.24
1600	1.31
2000	1.35
2500	1.35
3150	1.34
4000	1.32
5000	1.32
NRC:	0.95
SAA:	0.93
FFA:	0.928
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 11.75" Slab Lot: 905849 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147725 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.11
125	0.22
160	0.32
200	0.40
250	0.49
315	0.52
400	0.51
500	0.52
630	0.61
800	0.78
1000	0.88
1250	1.02
1600	1.07
2000	1.11
2500	1.11
3150	1.10
4000	1.08
5000	1.10
NRC:	0.75
SAA:	0.75
FFA:	0.751
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 11.75" Slab Lot: 905849 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147753 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

Frequency	<u>Alpha</u>
100	0.08
125	0.20
160	0.27
200	0.35
250	0.44
315	0.44
400	0.46
500	0.47
630	0.56
800	0.69
1000	0.76
1250	0.86
1600	0.92
2000	0.94
2500	0.95
3150	0.93
4000	0.93
5000	0.95
NRC:	0.65
SAA:	0.65
FFA:	0.650
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 16" Slab Lot: 905850 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147699 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.31
125	0.46
160	0.48
200	0.59
250	0.67
315	0.68
400	0.73
500	0.88
630	1.05
800	1.12
1000	1.27
1250	1.43
1600	1.51
2000	1.55
2500	1.54
3150	1.52
4000	1.52
5000	1.52
NRC:	1.10
SAA:	1.08
FFA:	1.092
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 16" Slab Lot: 905850 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147727 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.22
125	0.36
160	0.44
200	0.48
250	0.56
315	0.56
400	0.58
500	0.69
630	0.86
800	0.94
1000	1.09
1250	1.20
1600	1.29
2000	1.30
2500	1.30
3150	1.28
4000	1.28
5000	1.26
NRC:	0.90
SAA:	0.90
FFA:	0.911
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 16" Slab Lot: 905850 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147755 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.16
125	0.31
160	0.36
200	0.47
250	0.49
315	0.50
400	0.51
500	0.61
630	0.76
800	0.82
1000	0.95
1250	1.06
1600	1.11
2000	1.15
2500	1.14
3150	1.13
4000	1.11
5000	1.09
NRC:	0.80
SAA:	0.80
FFA:	0.799
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 12" OC spacing

Sample ID: 20" Slab Lot: 905851 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147703 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.36
125	0.53
160	0.52
200	0.60
250	0.68
315	0.75
400	0.94
500	1.11
630	1.19
800	1.34
1000	1.48
1250	1.61
1600	1.72
2000	1.78
2500	1.76
3150	1.74
4000	1.71
5000	1.73
NRC:	1.25
SAA:	1.25
FFA:	1.260
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 18" OC spacing

Sample ID: 20" Slab Lot: 905851 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147729 Mounting: Other

Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	<u>Alpha</u>
100	0.32
125	0.39
160	0.45
200	0.50
250	0.58
315	0.60
400	0.76
500	0.86
630	0.97
800	1.12
1000	1.26
1250	1.38
1600	1.46
2000	1.48
2500	1.49
3150	1.47
4000	1.47
5000	1.44
NRC:	1.05
SAA:	1.04
FFA:	1.045
Label:	

^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Modification: 24" OC spacing

Sample ID: 20" Slab Lot: 905851 Determination:

Item: None Plant:

Pattern: NO SPECIFICATION

Description:

Size: Edge Detail:

Produced: Grid:

A Number: 147757 Mounting: Other

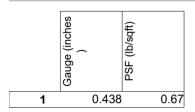
Operator: ZABOCK
Test Date: 06/07/2022

<u>Frequency</u>	Alpha
100	0.26
125	0.45
160	0.45
200	0.48
250	0.52
315	0.53
400	0.65
500	0.79
630	0.89
800	0.99
1000	1.11
1250	1.23
1600	1.32
2000	1.33
2500	1.33
3150	1.29
4000	1.30
5000	1.31
NRC:	0.95
SAA:	0.93
FFA:	0.937
Label:	

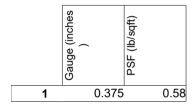
^{*}Definition of Unit:A unit is defined as a section of the total specimen that is bounded by free space.

Acoustic Thickness and PSF (AL5)

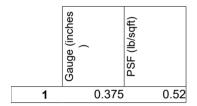
Sample ID: 4" Straight Lot Number: 905837



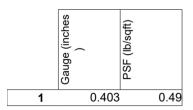
Sample ID: 6" Straight Lot Number: 905838



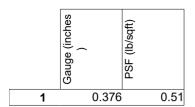
Sample ID: 7.5" Straight Lot Number: 905839



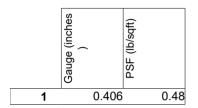
Sample ID: 9.375" Straight Lot Number: 905840



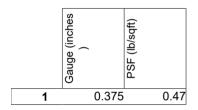
Sample ID: 12" Straight Lot Number: 905841



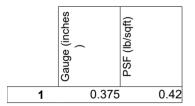
Sample ID: 16" Straight Lot Number: 905842



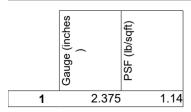
Sample ID: 24" Straight Lot Number: 905843



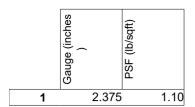
Sample ID: 48" Straight Lot Number: 905844



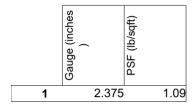
Sample ID: 4" Slab Lot Number: 905845



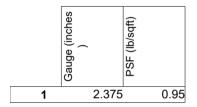
Sample ID: 4.625" Slab Lot Number: 905846



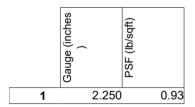
Sample ID: 5.625" Slab Lot Number: 905847



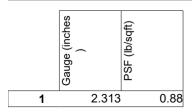
Sample ID: 8.68" Slab Lot Number: 905848



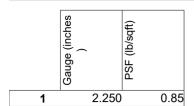
Sample ID: 11.75" Slab Lot Number: 905849



Sample ID: 16" Slab Lot Number: 905850



Sample ID: 20" Slab Lot Number: 905851





4 Baffles at 24" OC spacing

T-702533 67823032 Page 55 of 58



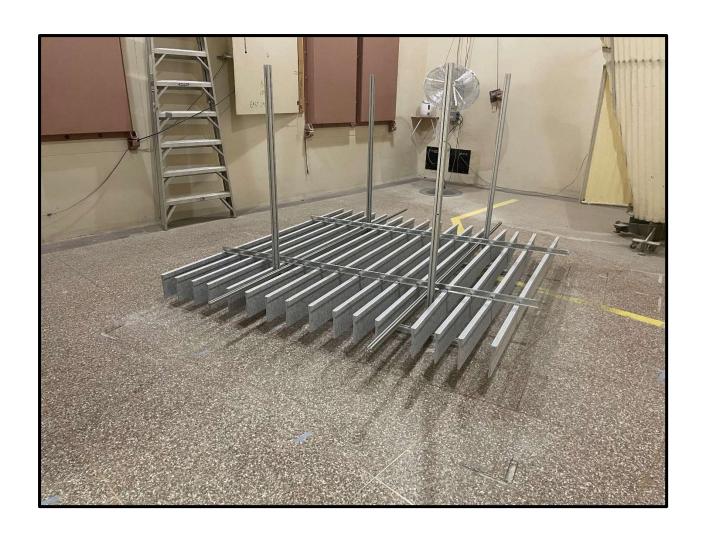
6 Baffles at 18" OC spacing

T-702533 6**7823032** Page 56 of 58



8 Baffles at 12" OC spacing

T-702533 6**78½3032** Page 57 of 58



16 Baffles at 6" OC spacing

T-702533 67822922 Page 58 of 58