

STANDARD "NAIL-ON" SUNFIN™ EXPOSURE B & C						
SHEET MATERIAL	SHEET THICKNESS	EXPOSURE	BUILDING HEIGHT	MIN. PERCENT OPEN	MAX. SUNSHADE DEPTH	MAX HEIGHT LENGTH
5052-H32 ALUMINUM	.1875"	B	0' - 32'	0%	22"	120"
				30%	24"	120"
			33' - 60'	0%	20"	120"
				30%	22"	120"
5052-H32 ALUMINUM	.1875"	C	0' - 32'	0%	20"	120"
				30%	22"	120"
			33' - 60'	0%	18"	120"
				30%	20"	120"
5052-H32 ALUMINUM	.25"	B	0' - 32'	0%	30"	120"
				30%	34"	120"
			33' - 60'	0%	26"	120"
				30%	30"	120"
5052-H32 ALUMINUM	.25"	C	0' - 32'	0%	26"	120"
				30%	30"	120"
			33' - 60'	0%	26"	120"
				30%	24"	120"

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph, Risk Category II, Exposure Category B & C
2. Connection of bracket to substrate not covered in this table and to be analyzed on a project specific basis
3. Sunfin is not analyzed for any snow or ice loading. If sunfins are located in a region with snow and/or ice loads, then project specific analysis is required.

STANDARD BRACKETED SUNSHADE EXPOSURE B

SHEET MATERIAL	MAXIMUM PANEL LENGTH		PANEL DEPTH	DEPTH FROM STRUCTURE	PANEL EDGE RETURN	PERCENT OPEN	HEIGHT ABOVE GRADE				
	HORIZONTAL	VERTICAL									
.1875"	8' - 6"	8' - 6"	2' - 6"	2' - 8"	2"	0% - 40%	0' - 32'				
	8' - 0"	8' - 0"					33' - 60'				
.160"	8' - 0"	8' - 0"					2' - 0"	2' - 2"	2"	0% - 40%	0' - 32'
	7' - 6"	7' - 6"									33' - 60'
.1875"	9' - 0"	8' - 6"	1' - 6"	1' - 8"	2"	0% - 40%	0' - 32'				
	9' - 0"	7' - 6"					33' - 60'				
.160"	9' - 0"	8' - 6"					1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'
	8' - 6"	7' - 6"									33' - 60'
.1875"	10' - 0"	10' - 0"	1' - 6"	1' - 8"	2"	0% - 40%	0' - 32'				
	9' - 6"	9' - 6"					33' - 60'				
.160"	9' - 6"	9' - 6"					1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'
	9' - 0"	9' - 0"									33' - 60'
.1875"	11' - 0"	11' - 0"	1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'				
	10' - 6"	10' - 6"					33' - 60'				
.160"	10' - 6"	10' - 6"					1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'
	10' - 0"	10' - 0"									33' - 60'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph (Ultimate), Risk Category II, Exposure Category B
2. Aluminum sheet shall be 5052-H32, with thicknesses as shown in the above table.
3. Knife blades shall be 3/8" thick 304 stainless steel, having yield strength of Fy=30 ksi minimum.
4. All bolts shall be 300 series stainless steel (Fu=75ksi minimum).
5. Conditions which do not comply with the table above shall be evaluated on a project specific basis.
6. Knife blades for 30" deep panels must be evaluated on a project specific basis.
7. Maximum panel lengths for 24" wide vertical panels are based on the knife blade capacity.

STANDARD BRACKETED SUNSHADE EXPOSURE C

SHEET MATERIAL	MAXIMUM PANEL LENGTH		PANEL DEPTH	DEPTH FROM STRUCTURE	PANEL EDGE RETURN	PERCENT OPEN	HEIGHT ABOVE GRADE
	HORIZONTAL	VERTICAL					
.1875"	5' - 2"	4' - 4"	2' - 6"	2' - 8"	2"	0% - 40%	0' - 32'
	4' - 8"	3' - 10"					33' - 60'
.160"	5' - 2"	4' - 4"	2' - 6"	2' - 8"	2"	0% - 40%	0' - 32'
	4' - 8"	3' - 10"					33' - 60'
.1875"	7' - 10"	6' - 8"	2' - 0"	2' - 2"	2"	0% - 40%	0' - 32'
	7' - 2"	5' - 10"					33' - 60'
.160"	7' - 10"	6' - 8"	2' - 0"	2' - 2"	2"	0% - 40%	0' - 32'
	7' - 2"	5' - 10"					33' - 60'
.1875"	9' - 4"	9' - 10"	1' - 6"	1' - 8"	2"	0% - 40%	0' - 32'
	9' - 0"	9' - 6"					33' - 60'
.160"	9' - 0"	9' - 5"	1' - 6"	1' - 8"	2"	0% - 40%	0' - 32'
	8' - 8"	9' - 0"					33' - 60'
.1875"	10' - 8"	11' - 0"	1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'
	10' - 4"	10' - 6"					33' - 60'
.160"	10' - 2"	10' - 6"	1' - 0"	1' - 2"	2"	0% - 40%	0' - 32'
	10' - 0"	10' - 0"					33' - 60'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph (Ultimate), Risk Category II, Exposure Category C
2. Aluminum sheet shall be 5052-H32, with thicknesses as shown in the above table.
3. Knife blades shall be 3/8" thick 304 stainless steel, having yield strength of Fy=30 ksi minimum.
4. All bolts shall be 300 series stainless steel (Fu=75ksi minimum).
5. Conditions which do not comply with the table above shall be evaluated on a project specific basis.
6. Knife blades for 24" and 30" deep panels must be sloped to back.
7. Maximum panel lengths for 24" and 30" wide vertical panels are based on the knife blade capacity.

STANDARD "NAIL-ON" SUNSHADE™ EXPOSURE B

SHEET THICKNESS	MAXIMUM PANEL LENGTH		PANEL DEPTH	DEPTH FROM STRUCTURE	PANEL EDGE RETURN	PERCENT OPEN	HEIGHT ABOVE GRADE	CONNECTION ANGLE THICKNESS
	HORIZONTAL	VERTICAL						
.1875"	7' - 6"	7' - 6"	21"	24"	2"	0% - 40%	0' - 32'	0.160"
	7' - 0"	7' - 0"			2"	0% - 40%	33' - 60'	
0.160"	7' - 6"	7' - 6"	21"	24"	2"	0% - 40%	0' - 32'	0.160"
	7' - 0"	7' - 0"			2"	0% - 40%	33' - 60'	
.1875"	9' - 0"	9' - 0"	15"	18"	2"	0% - 40%	0' - 32'	.25"
	8' - 0"	8' - 0"			2"	0% - 40%	33' - 60'	
0.160"	9' - 0"	9' - 0"	15"	18"	2"	0% - 40%	0' - 32'	.25"
	8' - 0"	8' - 0"			2"	0% - 40%	33' - 60'	
.1875"	9' - 6"	9' - 6"	12"	15"	2"	0% - 40%	0' - 32'	.25"
	9' - 0"	9' - 0"			2"	0% - 40%	33' - 60'	
0.160"	9' - 6"	9' - 6"	12"	15"	2"	0% - 40%	0' - 32'	.25"
	9' - 0"	9' - 0"			2"	0% - 40%	33' - 60'	

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph (Ultimate), Risk Category II, Exposure Category B
2. Aluminum sheet shall be 5052-H32, with thicknesses as shown in the above table.
3. Aluminum connection angles shall be 5052-H32, having thicknesses as listed in the above table.
4. All bolts shall be 300 series stainless steel (Fu=75ksi minimum)
5. Conditions which do not comply with the table above shall be evaluated on a project specific basis.
6. Sunshade panels have not been designed for any live load, snow load, or ice load. 1" MIN

STANDARD GUARDRAILS EXPOSURE B

GUARDRAIL TYPE	SHEET MATERIAL	PANEL THICKNESS	PANEL HEIGHT (MAX)	PANEL WIDTH (MAX)	BEND DEPTH (MIN)	#OF BENDS	PERCENT OPEN	KNIFE BLADE THICKNESS	KNIFE BLADE DEPTH (MIN)	KNIFE BLADE HEIGHT		#OF BOLTS/BOLT SPACING AT PANEL EDGE TO KNIFE BLADE		HEIGHT OF RAIL ON BUILDING
										INTERMEDIATE	JAMB	INTERMEDIATE	JAMB	
BALCONY FASCIA MOUNT	5052 - H32 ALUMINUM	.1875"	54"	48"	2"	5	10 - 30%	3/8"	2"	26"	51.5"	3 @ 11.5" O.C.	2 @ 12" O.C.	0' - 32'
			54"	48"	2"	5	30 - 50%	3/8"	2"	26"	51.5"	3 @ 11.5" O.C.	2 @ 12" O.C.	0' - 32'
			54"	48"	2"	5	10 - 30%	3/8"	2"	26"	51.5"	3 @ 11.5" O.C.	2 @ 12" O.C.	32' - 60'
BALCONY TOP MOUNT	5052 - H32 ALUMINUM	.1875"	40"	48"	2"	5	10 - 30%	3/8"	2.5"	18"	30"	2 @ 11.5" O.C.	3 @ 11.5" O.C.	0' - 32'
			40"	48"	2"	5	30 - 50%	3/8"	2.5"	18"	30"	2 @ 11.5" O.C.	3 @ 11.5" O.C.	0' - 32'
			40"	48"	2"	5	10 - 30%	3/8"	2.5"	18"	30"	2 @ 11.5" O.C.	3 @ 11.5" O.C.	32' - 60'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph, Risk Category II Exposure Category B
2. Bolts to knife blades assumed to be 1/2" diameter 300 series stainless steel bolts with Fu=75ksi minimum.
3. Fasteners into substrate are not included in this scope of work.

STANDARD WALLSCREEN EXPOSURE B								
SHEET MATERIAL	SHEET THICKNESS	MAX PANEL HEIGHT	MAX WIDTH	MIN DEPTH	MIN EDGE WIDTH	FUNCTION AS GUARDRAIL	PERCENT OPEN	BUILDING HEIGHT
5052-H32 ALUMINUM	.125"	114"	48"	2"	1"	NO	50 - 60%	0' - 32'
		90"					20 - 50%	0' - 32'
5052-H32 ALUMINUM	.160"	114"	48"	2"	1"	NO	50 - 60%	0' - 32'
		114"					20 - 50%	0' - 32'
		132"					50 - 60%	33' - 60'
		102"					20 - 50%	33' - 60'
5052-H32 ALUMINUM	.1875"	114"	48"	2"	1"	NO	40 - 60%	0' - 32'
		126"					20 - 40%	0' - 32'
		114"					50 - 60%	33' - 60'
		114"					20 - 50%	33' - 60'
CORTEN ASTM A242	14 GA	114"	48"	2"	1"	NO	50 - 60%	0' - 32'
		96"					20 - 50%	0' - 32'
CORTEN ASTM A242	12 GA	156"	48"	2"	1"	NO	50 - 60%	0' - 32'
		144"					20 - 50%	0' - 32'
		156"					50 - 60%	33' - 60'
		132"					20 - 50%	33' - 60'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph (Ultimate), Risk Category II, Exposure Category B
2. A Guard is a building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level. Handrails and guards shall be designed and constructed.

STANDARD WALLSCREEN EXPOSURE C

SHEET MATERIAL	SHEET THICKNESS	MAX PANEL HEIGHT	MAX WIDTH	MIN DEPTH	MIN EDGE WIDTH	FUNCTION AS GUARDRAIL	PERCENT OPEN	BUILDING HEIGHT
5052 - H32 ALUMINUM	.125"	120"	48"	3"	1"	NO	50 - 60%	0' - 32'
5052 - H32 ALUMINUM	.160"	120"	48"	2"	1"	NO	50 - 60%	0' - 32'
		120"		3"			20 - 50%	0' - 32'
		120"		2"			50 - 60%	33' - 60'
		120"		3"			20 - 50%	33' - 60'
5052 - H32 ALUMINUM	.1875"	120"	48"	2"	1"	NO	40 - 60%	0' - 32'
		138"		3"			20 - 40%	0' - 32'
		125"		2"			50 - 60%	33' - 60'
		130"		3"			20 - 40%	33' - 60'
CORTEN ASTM A242	12 GA	150"	48"	2"	1"	NO	50 - 60%	0' - 32'
		120"					20 - 50%	0' - 32'
		142"					50 - 60%	33' - 60'
		120"					20 - 50%	33' - 60'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph, Risk Category II, Exposure Category C
2. A Guard is a building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level.
Handrails and guards shall be designed and constructed
3. Knife blades shall be 3/8" thick 304 stainless steel, having yield strength of $F_y=30$ ksi minimum.
4. All bolts shall be 300 series stainless steel ($F_u=75$ ksi minimum).
5. Connection of bracket to substrate not covered in this table and to be analyzed on a project specific basis

STANDARD RAINSCREEN EXPOSURE B						
SHEET MATERIAL	SHEET THICKNESS	MAX PANEL HEIGHT	MAX WIDTH	MAX DEPTH	DESIGN AS A GUARD *SEE NOTE 2*	BUILDING HEIGHT
5052 - H32 ALUMINUM	.125"	144"	48"	2"	NO	0' - 32'
		120"	30"			33' - 90'
5052 - H32 ALUMINUM	.160"	144"	54"	2"	NO	0' - 32'
		144"	48"			33' - 90'
CORTEN ASTM A242	14 GA	144"	40"	2"	NO	0' - 32'
		120"	30"			33' - 90'
COR - TEN ASTM A242	12 GA	144"	54"	2"	NO	0' - 32'
		144"	48"			33' - 90'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph, Risk Category II, Exposure Category B
2. A Guard is a building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level. Handrails and guards shall be designed and constructed for the structural loading conditions set forth in Section 1607.8.1 of IBC 2018. The rainscreen panels herein have not been designed to act as a guard.
3. Panels have been designed as solid panels without perforations. Perforations may affect the panel analysis and should be considered on a project specific basis. Top Edge and One Vertical Edge Fastened to Structure

STANDARD RAINSCREEN EXPOSURE C						
SHEET MATERIAL	SHEET THICKNESS	MAX. PANEL HEIGHT	MAX. WIDTH	MIN. DEPTH	DESIGN AS A GUARD	BUILDING HEIGHT
5052 - H32 ALUMINUM	.125"	144"	48"	2"	NO	0' - 32'
		120"	30"			33' - 90'
	.160"	144"	54"	2"	NO	0' - 32'
		144"	48"			33' - 90'
CORTEN ASTM A242	14 GA	144"	40"	2"	NO	0' - 32'
		120"	30"			33' - 90'
	12 GA	144"	54"	2"	NO	0' - 32'
		144"	42"			33' - 90'

NOTES:

1. Wind Load Design Criteria: Wind pressures are determined using ASCE 7-16. Basic Wind Speed: 100 mph, Risk Category II, Exposure Category C
2. A Guard is a building component or a system of building components located at or near the open sides of elevated walking surfaces that minimizes the possibility of a fall from the walking surface to a lower level. Handrails and guards shall be designed and constructed for the structural loading conditions set forth in Section 1607.8.1 of IBC 2018. The rainscreen panels herein have not been designed to act as a guard.
3. Panels have been designed as solid panels without perforations. Perforations may affect the panel analysis and should be considered on a project specific basis.