



Technical Information for FusionSwirl

FusionSwirl™ is a decorated aluminum sheet that can be installed easily to various substrates, including drywall.

Technical Information

Description

Item Shape	Flat sheet
Material	Aluminum 3003 Aluminum 5005
Temper	H14
Thickness & Weight per Sheet	.032", 18.24 lbs
Width	48"
Length	120"
Specs	ASTM B209

DETAILS

- Aluminum is in stock as 4' x 10' sheets. Other sizes, including 4' x 8', are available on special order.
- Maximum image size is approximately 5' x 10', nominal (image size 58" x 118").
- Finishes available include Gloss and Satin.

Mechanical Properties (ASTM B557)

Tensile Strength (ksi)		22.0
Yield Strength (ksi)		20.7
Elongation %		4.0
Taber Abrasion (ASTM D-1044)	CS-10 Wheel	500 g 10,000 cycles

MAINTENANCE

Clean surfaces with a soft cloth using a household cleaner – waxes, Windex type solutions, or ordinary soap and water. Good furniture or automobile waxes can provide additional protection.

Stain Resistance Testing		FusionSwirl - Gloss		FusionSwirl - Satin	
		24 Hrs	7 Day	24 Hrs	7 Day
#	Materials				
1	Wesson Oil®	N	N	N	N
2	Household Ammonia	N	N	N	N
3	409 all purpose cleaner®	N	N	N	N
4	"Tide" laundry detergent	N	N	N	N
5	Isopropyl Alcohol	N	N	N	N
6	Bleach	S	S	N*	N*
7	Grape Juice	N	N	N	N
8	Orange Juice Concentrate	N	N	N	N
9	Coffee	N	N	N	N
10	Mustard	N	N	M	M
11	Ketchup	N	N	N	N
12	Red wine	N	N	N	N
13	Coca-Cola®	N	N	N	N
14	Water	N	N	N	N
15	Black crayon	N	N	N	N
16	Lipstick	N	N	N	N
17	Pine-Sol®	N	N	N*	N*
18	Vinegar	N	N	N	N

N = no change

S = slight change

M = medium change

L = large change

* Note: "No change" to "slight change" seen, depending on color or pattern

Steam Test Results

Test EN 438-2:2005

NAME:	FusionSwirl	FusionSwirl
TYPE:	Satin	Glossy
THICKNESS:	.032"	.032"
RATING:	1	1
DATE:	7/12/11	7/12/11

Ratings:	5	No visible change.
	4	Slight change of gloss and/or color, only visible at certain viewing angles.
	3	Moderate change of gloss and/or color.
	2	Marked change of gloss and/or color.
	1	Blistering and/or delamination.

Abrasion Resistance Testing	# OF CYCLES	
SAMPLE	1ST WEAR POINT - all 4 quadrants	WORN ALL THE WAY THROUGH - all 4 QUADRANTS
FusionSwirl - Glossy	4000*	

* coating worn, no sign of wear to image

TESTING SPECIFICATIONS:

Taber Abrader Model 5130

500 g weight

CS-10 Calibrated Wheel

ASTM D-1044

CONDITIONS & WARRANTY

Advanced Technology, Inc. believes all information contained herein to be correct. It is the responsibility of the fabricator/customer to completely test the adhesives and methods of fabrication to ensure that the results are satisfactory. ATI is not responsible for any fabrication or ancillary costs involved with using FusionSwirl products.

All shipments are to be inspected within 10 working days after delivery. We are to be informed in writing of any potential adjustment necessary. The seller's only obligation will be to replace defective sheets on a one to one basis. Neither the manufacturer nor the seller shall be liable for any additional damage or loss, directly or indirectly, arising as a result of using FusionSwirl products.

Slight imperfections and color variations from sheet to sheet are possible and considered normal. Please inspect each sheet carefully before fabrication to ensure it meets your needs.

CAUTION

FusionSwirl and other metal laminates will conduct electricity. To avoid electrical shock and damage to equipment, please make sure that all electrical circuits, tools, and devices used with FusionSwirl are properly grounded.