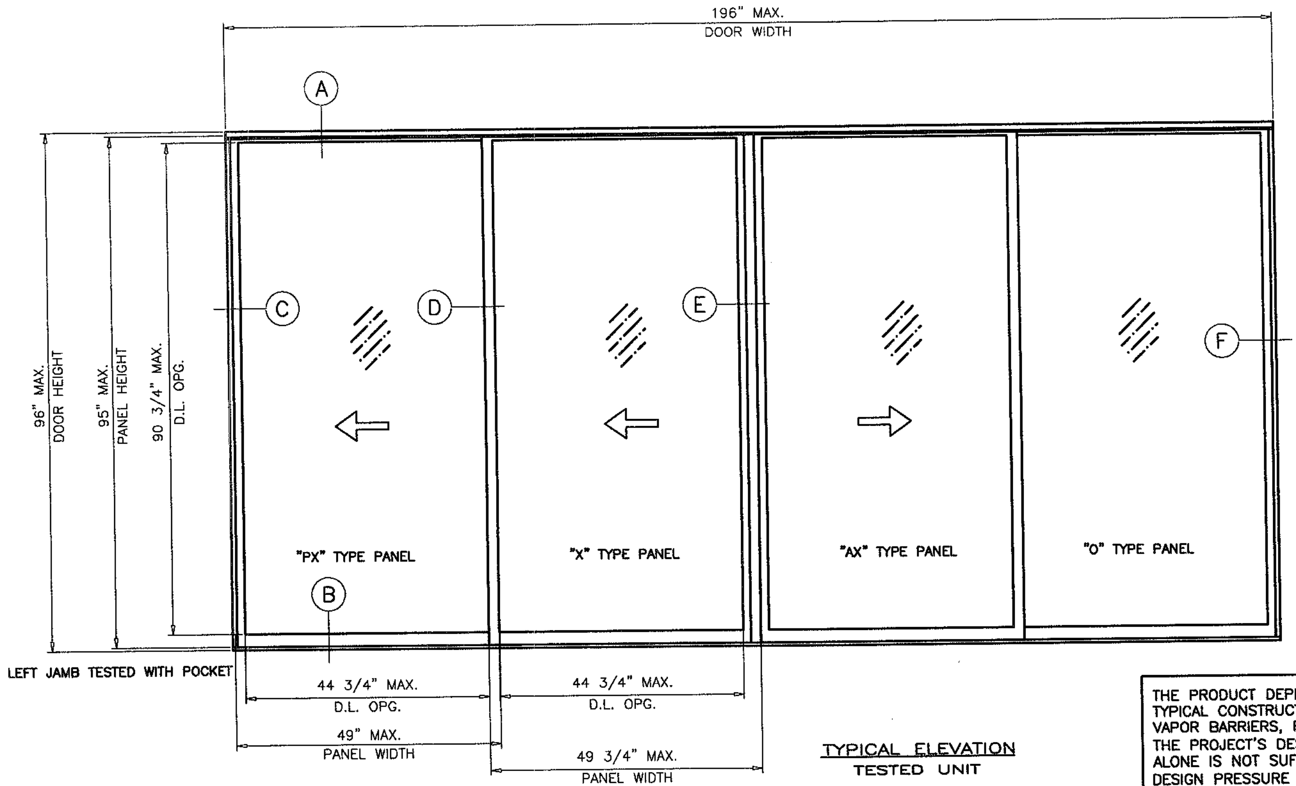


TYPICAL ELEVATION
TESTED UNIT

THE PRODUCT DEPICTED ABOVE IS INTENDED FOR USE ON TYPICAL CONSTRUCTION. THE USE OF ADDITIONAL FLASHING, VAPOR BARRIERS, FASTENERS, ETC MAY BE SPECIFIED BY THE PROJECT'S DESIGN PROFESSIONAL. BASIC WIND SPEED ALONE IS NOT SUFFICIENT TO DETERMINE THE REQUIRED DESIGN PRESSURE (DP). THE REQUIRED DP MUST BE CALCULATED IN ACCORDANCE WITH ASCE 7 BY A DESIGN PROFESSIONAL THAT IS FAMILIAR WITH THE PROJECT DESIGN AND LOCATION, AS SPECIFIED IN THE PREVAILING FBC. DP COMPARATIVE ANALYSIS CHARTS AND AAMA 101 COMPLIANT TEST REPORTS ARE AVAILABLE FOR ALL NUAIR MANUFACTURED PRODUCTS. PLEASE CONSULT YOUR LOCAL BUILDING CODES FOR EXACT REQUIREMENTS.

IMPACT RESISTANT

SERIES-9000 ALUM. SLIDING GLASS DOOR

DOORS GLAZED WITH LAMINATED GLASS RATED FOR LARGE MISSILE IMPACT DO NOT REQUIRE THE USE OF IMPACT RESISTANT COVERING.

DOORS HAVE BEEN EVALUATED AND IS IN COMPLIANCE WITH THE REQUIREMENTS FOR USE WITHIN THE STATE OF FLORIDA.

WIND LOADS PER APPLICABLE ASCE 7 AS REQUIRED BY THE PREVAILING BUILDING CODE.

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS. ANCHOR EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

FOR ANCHOR TYPE AND SPACING, SEE THE DESIGN LOAD SHEET.

33 1/3% STRESS INCREASE IN ANCHOR CALCULATIONS HAS NOT BEEN USED IN THE DESIGN OF THIS PRODUCT.

FIN FRAME ALSO AVAILABLE FOR 2 & 3 TRACK CONFIGURATIONS.

TEST INFORMATION:

SERIES	TEST BUCK SIZE	DP	WATER INF.	AIR INF.	FER	TEST REPORT #	CERTIFICATION #
9000	196" X 96"	± 65.0	PER SILL	.30 CFM/FT^2	PASSED	NCTL-210-3215-1	NI006585

THE ABOVE ARE TEST RESULTS FOR THE SIZE TESTED AND DO NOT REFLECT THE ACTUAL DESIGN PRESSURE FOR OTHER UNITS. SEE COMPARATIVE ANALYSIS CHARTS FOR SPECIFIC DESIGN PRESSURES PER SIZE/GLASS OPTIONS. FOR SPECIFIC TEST INFORMATION, PLEASE SEE THE TEST REPORT.

APPROVED CONFIGURATIONS
SEE APPROVED CONFIGURATIONS ON FOLLOWING SHEETS.

THIS DOCUMENT MUST BE SIGNED AND SEALED TO BE VALID.

James B. Whittum, P.E
FL # 0027689
8533 Acorn Ridge Ct.
Tampa, Florida 33625
813-926-9719

James B. Whittum

SEP 1 [illegible] 2008

ELV

NUAIR

SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

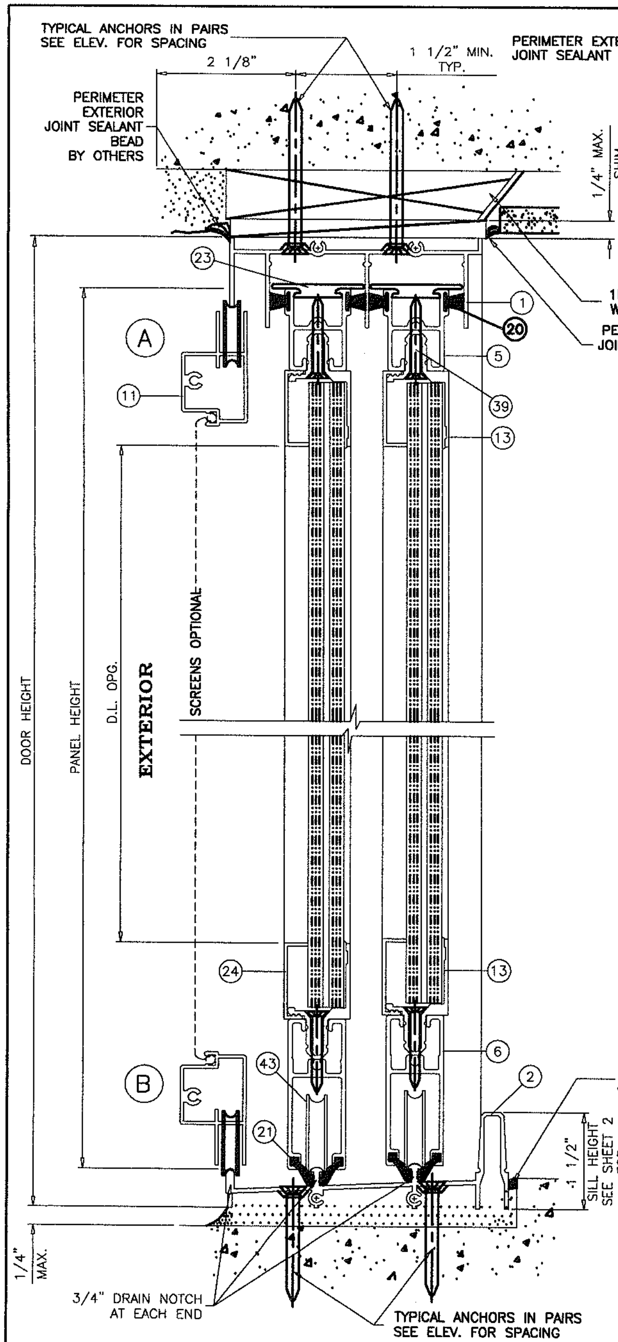
NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
TAMPA, FL. 33684
TEL. (800) 282-6627 FAX (813) 886-9737

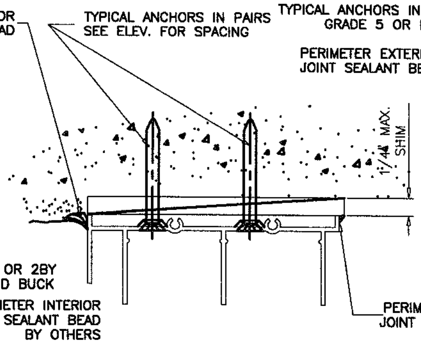
revisions:

no	date	by	description
1	9/05	JR	Removed CA from sheetset.

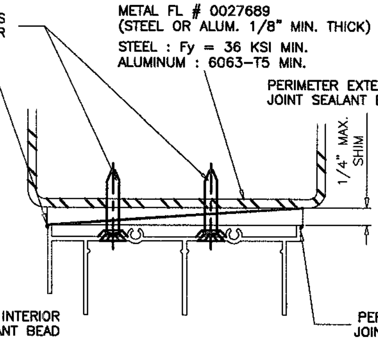
date: 05/09/08
scale: 1/2" = 1"
dr. by: DI
chk. by:

drawing no.
SGD9000
SHEET 1

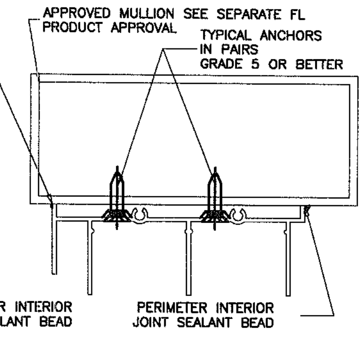




ATTACHMENT TO CONCRETE



ATTACHMENT TO ALUM OR STEEL



ATTACHMENT TO MULLION

IMPACT RESISTANT

TYPICAL ANCHORS:

1/4" MASONRY ANCHORS
RECOMMENDED SUPPLIERS: ELCO or ITW-BUILDEX
INTO 2BY WOOD BUCKS OR WOOD STRUCTURE
1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY WOOD BUCKS INTO MASONRY OR CONC.
1-1/4" MIN. EMBED INTO MASONRY OR CONC.

DIRECTLY INTO CONCRETE
1-1/4" MIN. EMBED INTO CONCRETE

#8 X 1-3/4" DECKING OR DRYWALL SCREWS
INTO WOOD FL # 0027689 (1-3/8" MIN. PENETRATION INTO WOOD)

3/16" DRILLFLEX SELF DRILLING SCREWS
INTO METAL FL # 0027689 (1/8" MIN. THICKNESS)

#10 SMS
INTO APPROVED MULLIONS (NO SHIM SPACE)

SEALANTS:

FRAME AND PANEL CORNERS AND INSTALLATION SCREWS AT SILL SEALED WITH JOINT SEALANT.

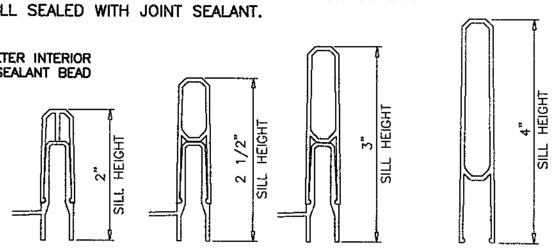
ANCHORS TO BE SPACED AS FOLLOWS:
-ANCHORS NO MORE THAN 4" FROM EACH CORNER.
-ANCHORS INSTALLED IN FRAMES USE CENTER TO CENTER EQUIDISTANT SPACING.
-SEE DESIGN PRESSURE CHARTS FOR REQUIRED MINIMUM ANCHOR QUANTITIES.

INSTALLATION HINTS:
-FRAME MUST BE LEVEL AND SQUARE.
-AFTER ADJUSTING PANEL ROLLERS, VERIFY THAT THE PANEL IS SQUARE WITH THE FRAME AND FULLY INTERLOCKED WITH THE ADJOINING PANEL.
-WITH THE PANEL SLIGHTLY OPEN, VERIFY THAT THE THE FRAME JAMB AND PANEL LOCKSTILE ARE PARALLEL.

ALL GUNNABLE SEALANTS SHALL COMPLY WITH ASTM C 920 CLASS 25 SPECIFICATION OR GREATER FOR PROPER JOINT EXPANSION AND CONTRACTION.

BUCKSTRIPS MUST BE SET IN A BEAD OF SEALANT. AFTER INSTALLATION AND EXCEPT FOR THE EXTERIOR DOOR SILL, A FULL PERIMETER SEALANT BEAD MUST BE APPLIED ONTO THE INTERIOR & EXTERIOR JOINT OF THE DOOR FRAME.

WOOD BUCKS NOT BY NUAIR, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



THIS DOCUMENT MUST BE SIGNED AND SEALED TO BE VALID.

James B. Whittum, P.E
FL # 0027689
8533 Acorn Ridge Ct.
Tampa, Florida 33625
813-926-9719

James B. Whittum

JUL 09 2008

INS

NUAIR

SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
TAMPA, FL. 33684
TEL. (800) 282-6627 FAX (813) 886-9737

revisions:			
no	date	by	description

date: 05/09/08
scale: 1/2" = 1"
dr. by: DI
chk. by:

drawing no.
SGD9000

SHEET 2

IMPACT RESISTANT

WOOD BUCKS NOT BY NUAIR, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

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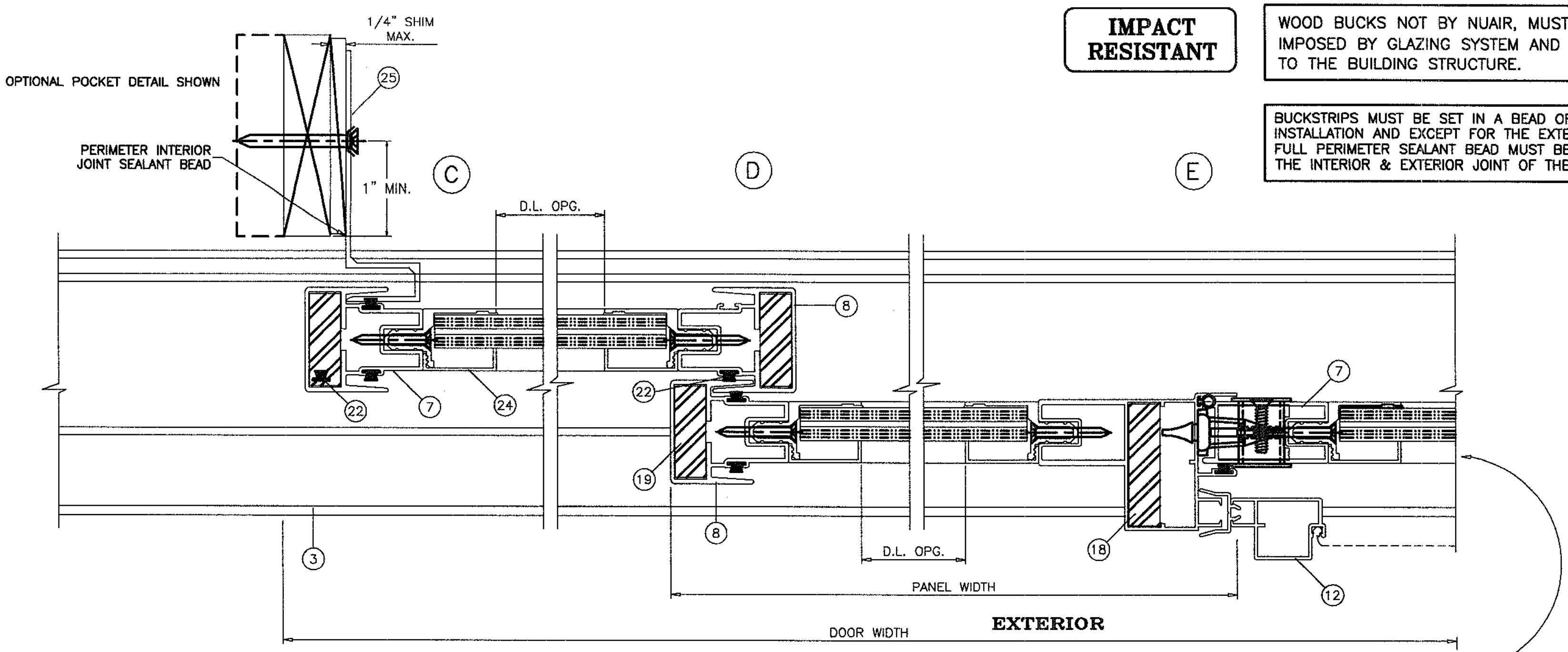
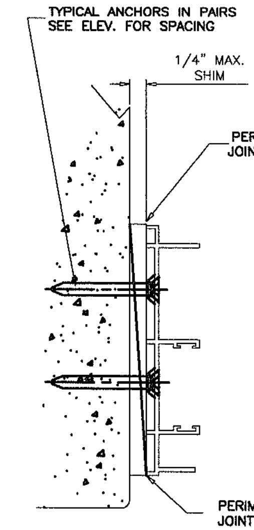
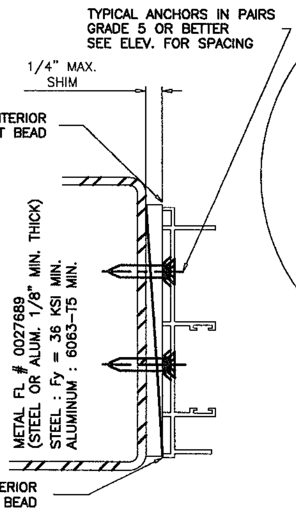
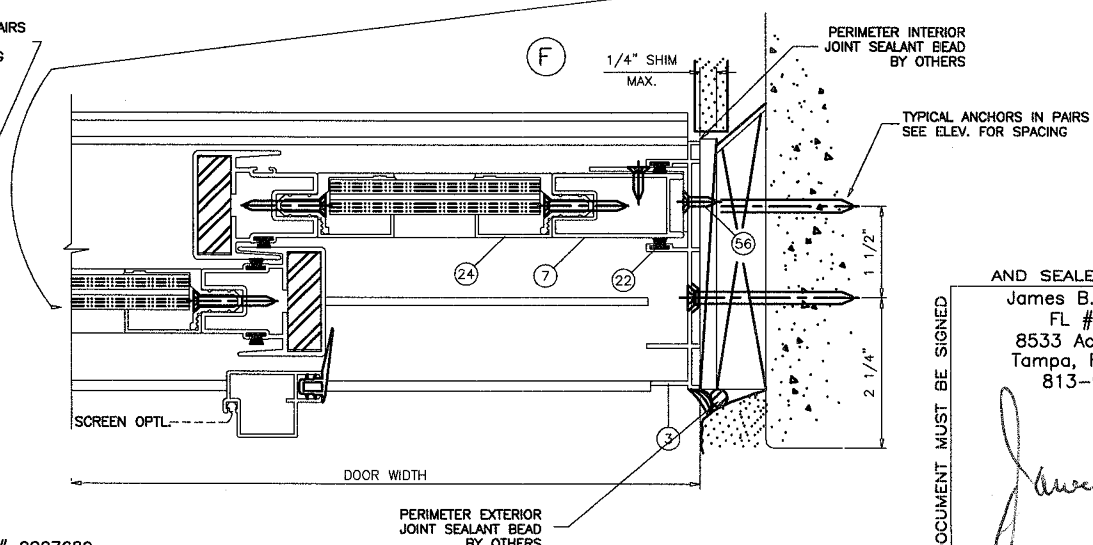




ATTACHMENT TO CONCRETE OR CONC. BLOCK



ATTACHMENT TO METAL FL # 0027689 STEEL OR ALUMINUM



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FL # 0027689
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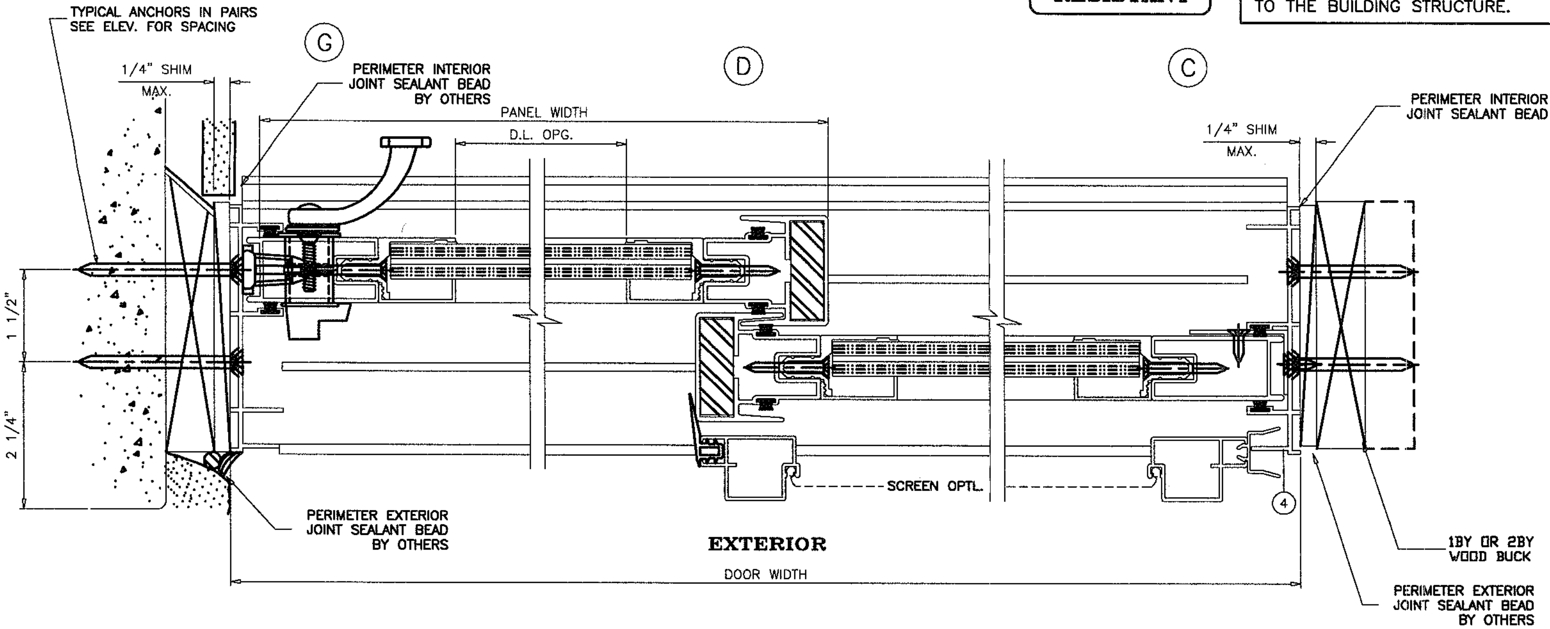
chk. by:

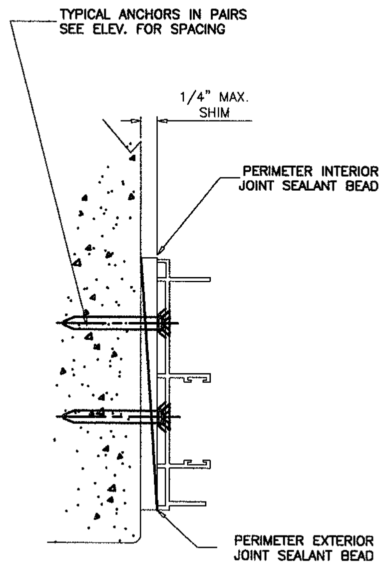
drawing no. SGD9000

SHEET 3

IMPACT RESISTANT

WOOD BUCKS NOT BY NUAIR, MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.





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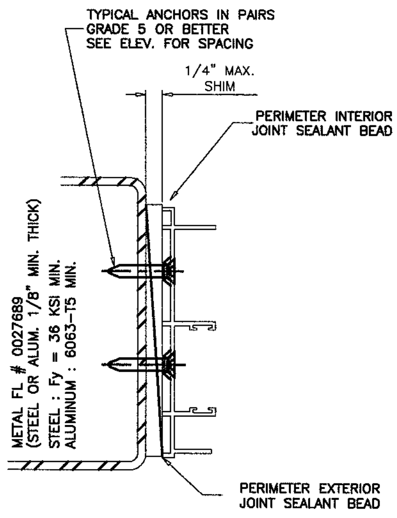

ATTACHMENT TO METAL FL # 0027689 STEEL OR ALUMINUM

BUCKSTRIPS MUST BE SET IN A BEAD OF SEALANT. AFTER INSTALLATION AND EXCEPT FOR THE EXTERIOR DOOR SILL, A FULL PERIMETER SEALANT BEAD MUST BE APPLIED ONTO THE INTERIOR & EXTERIOR JOINT OF THE DOOR FRAME.

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8533 Acorn Ridge Ct.
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James B. Whittum

JUL 0 9 2008

INS

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SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

NUAIR WINDOWS AND DOORS
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chk. by:

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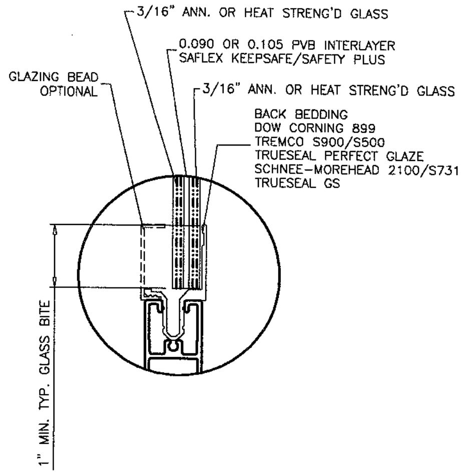
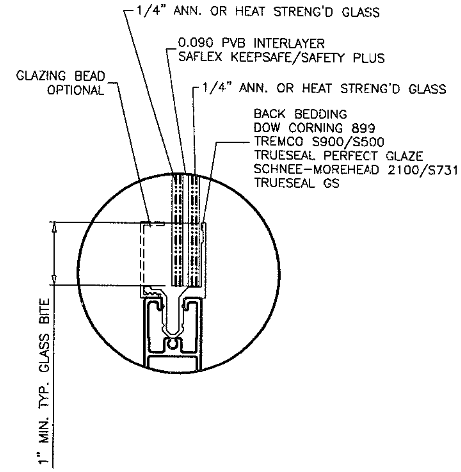
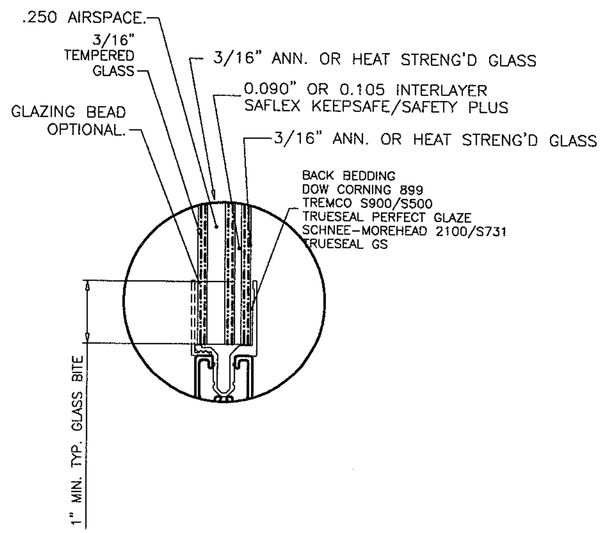
SHEET 4

EXTERIOR







UNITS TESTED WITHOUT GLAZING BEAD.

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FL # 0027689
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Tampa, Florida 33625
813-926-9719

James B. Whittum

JUL 09 2008

GLS

NUAIR

IMPACT GLASS

NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
TAMPA, FL. 33684
TEL. (800) 282-6627 FAX (813) 886-9737

revisions:			
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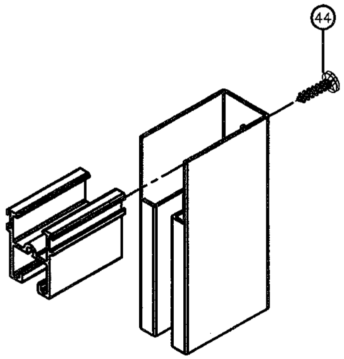
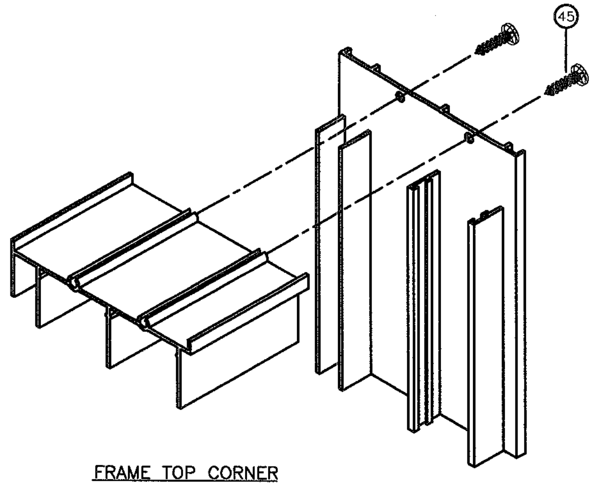
chk. by:

drawing no.
SGD9000

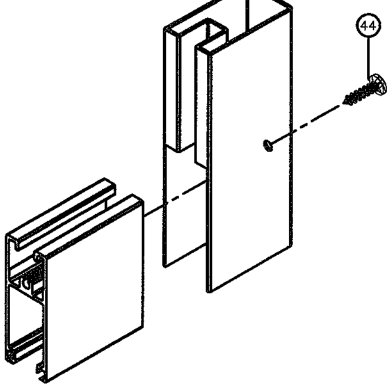
SHEET 5



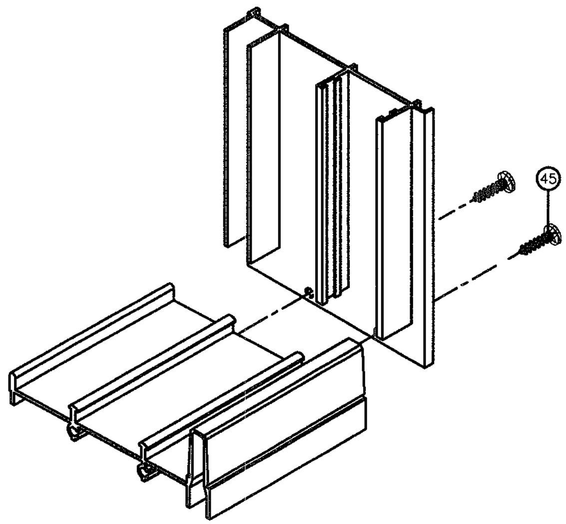
PANEL TOP CORNER



FRAME TOP CORNER



PANEL BOTTOM CORNER



FRAME BOTTOM CORNER

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James B. Whittum, P.E
FL # 0027689
8533 Acorn Ridge Ct.
Tampa, Florida 33625
813-926-9719

James B. Whittum

JUL 0 9 2008

ASM

NUAIR

SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
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revisions:

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chk. by:

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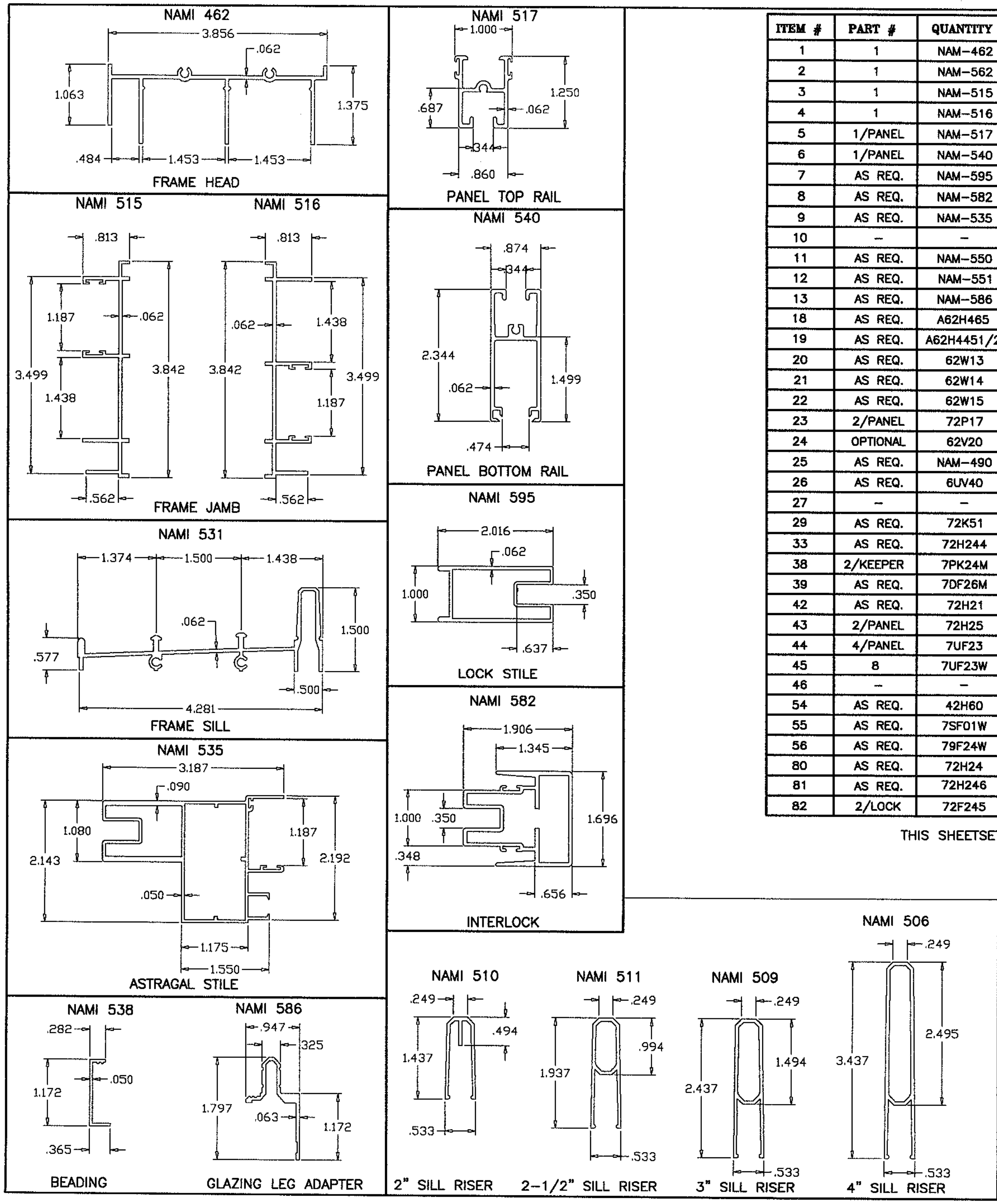
SGD9000

SHEET 6



ITEM #	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	1	NAM-462	2-TRACK HEADER	6063-T5	–
2	1	NAM-562	2-TRACK SILL	6063-T5	–
3	1	NAM-515	2-TRACK JAMB	6063-T5	–
4	1	NAM-516	2-TRACK JAMB	6063-T5	–
5	1/PANEL	NAM-517	TOP RAIL	6063-T5	–
6	1/PANEL	NAM-540	BOTTOM RAIL	6063-T5	–
7	AS REQ.	NAM-595	LOCKSTILE	6063-T5	–
8	AS REQ.	NAM-582	INTERLOCKSTILE	6063-T5	–
9	AS REQ.	NAM-535	ASTRAGAL	6063-T5	–
10	–	–	–	–	–
11	AS REQ.	NAM-550	SCREEN TOP/BOTTOM RAIL	6063-T5	–
12	AS REQ.	NAM-551	SCREEN JAMB	6063-T5	–
13	AS REQ.	NAM-586	SGD GLAZING LEG ADAPTER	6063-T5	–
18	AS REQ.	A62H465	2-1/2 x 1/2 STEEL REIN.	–	COAT WITH PROTECTIVE PAINT
19	AS REQ.	A62H4451/2	1-1/2 x 1/2 STEEL REIN.	–	COAT WITH PROTECTIVE PAINT
20	AS REQ.	62W13	TOP RAIL WEATHERSTRIP	–	AMSBURY #43636-270 OR EQV.
21	AS REQ.	62W14	BOTTOM RAIL WEATHERSTRIP	–	ULTRAFAB #5553G OR EQV.
22	AS REQ.	62W15	VERTICAL WEATHERSTRIP	–	AMSBURY #13320-270 OR EQV.
23	2/PANEL	72P17	TOP RAIL GUIDE	WHITE NYLON	–
24	OPTIONAL	62V20	BEADING	EXTRUDED VINYL	–
25	AS REQ.	NAM-490	HOOKSTRIP	6063-T5	–
26	AS REQ.	6UV40	BULB VINYL WEATHERSTRIP	EXTR'D SOFT VINYL	–
27	–	–	–	–	–
29	AS REQ.	72K51	POLY U-SEAL (DUST PLUG)	–	SCHLEGEL 132-0073-0532
33	AS REQ.	72H244	DOOR KEEPER	–	#685
38	2/KEEPER	7PK24M	DOOR KEEPER SCREW	PLATED STEEL	10-24x5/16 TR PHIL TP I
39	AS REQ.	7DF26M	SGD GLAZING LEG ADAPTER SCREW	–	#8 X 1" SELF-DRILLING PHILIPS FLATHEAD
42	AS REQ.	72H21	BYPASS BUMPER	RUBBER	BLACK MOLDED
43	2/PANEL	72H25	PANEL ROLLER ASSEMBLY	–	WATSCO INC. #KR1321LS
44	4/PANEL	7UF23	PANEL ASSEMBLY SCREW	–	8-18 X 3/4 SQUARE PANHEAD
45	8	7UF23W	FRAME ASSEMBLY SCREW	–	8-18 X 5/8 SQUARE PANHEAD
46	–	–	–	–	–
54	AS REQ.	42H60	"O" PANEL BRACKET	6063-T5	–
55	AS REQ.	7SF01W	"O" PANEL BRACKET SCREW	–	#6 X 5/8 FLATHEAD PHILIPS SELF-TAPPING
56	AS REQ.	79F24W	"O" PANEL BRACKET JAMB SCREW	–	#8 X 1 FLATHEAD PHILIPS
80	AS REQ.	72H24	LOCKSET ASSEMBLY	DIE CAST	–
81	AS REQ.	72H246	LOCKSET KEY TUMBLER	BRASS	–
82	2/LOCK	72F245	LOCKSET SCREW	–	#10-32 X 7/8 FLATHEAD PHILIPS, BLACK

THIS SHEETSET APPLIES ONLY TO THE 9000 SERIES SLIDING GLASS DOOR. INSULATED EXTRUSIONS SIMILAR.

THIS DOCUMENT MUST BE SIGNED AND SEALED TO BE VALID.

James B. Whittum, P.E
FL # 0027689
8533 Acorn Ridge Ct.
Tampa, Florida 33625
813-926-9719

James B. Whittum

JUL 09 2008

MAT

NUAIR

SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
TAMPA, FL. 33684
TEL. (800) 282-6627 FAX (813) 886-9737

revisions:

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chk. by:

drawing no.
SGD9000

PANEL STACK	# OF (P)ANELS # OF (T)RACKS FRAME TYPE	STANDARD STACK TOP VIEW & PANEL TYPES	REVERSE STACK TOP VIEW & PANEL TYPES
XO	2P-2T-BP	X(L) O(R)	O(L) X(R)
XX	2P-2T-BP	X(L) X(R)	X(L) X(R)
XXX	3P-3T-BP	X(L) PX X(R)	X(L) PX X(R)
XXXX	4P-4T-BP	X(L) PX PX X(R)	X(L) PX PX X(R)
OXO	3P-2T-BP	SCREEN ADAPTER AO X(L) O(R)	NO SCREEN AO X(L) O(R)
OXXO	4P-2T-BP	O(L) AX X(L) O(R)	O(L) NO SCREEN AX X(L) O(R)
XXXX	4P-2T-BP	X(L) AX X(L) X(R)	X(L) NO SCREEN AX X(L) X(R)
XXXXXX	6P-3T-BP	X(L) PX AX X(L) NO SCREEN PX X(R)	X(L) PX AX X(L) PX X(R)
XXXXXXXX	8P-4T-BP	X(L) PX PX AX X(L) NO SCREEN PX PX X(R)	X(L) PX PX AX X(L) PX PX X(R)
OXXXXO	6P-3T-BP	O(L) PX AX X(L) NO SCREEN PX O(R)	O(L) PX AX X(L) PX O(R)
OXXXXXXO	8P-4T-BP	O(L) PX PX AX X(L) NO SCREEN PX PX O(R)	O(L) PX PX AX X(L) PX PX O(R)
XO	2P-3T-BP w/ Gulfstream	X(L) O(R)	O(L) X(R)
XX	2P-3T-BP w/ Gulfstream	X(L) X(R)	X(L) X(R)
XXX	3P-4T-BP w/ Gulfstream	X(L) PX X(R)	X(L) PX X(R)
OXO	3P-3T-BP w/ Gulfstream	AO X(L) O(R)	
OXXO	4P-3T-BP w/ Gulfstream	O(L) AX X(L) O(R)	
XXXX	4P-3T-BP w/ Gulfstream	X(L) AX X(L) X(R)	

FIN FRAME ALSO AVAILABLE FOR 2 AND 3 TRACK CONFIGURATIONS.

PANEL STACK	# OF (P)ANELS # OF (T)RACKS FRAME TYPE	STANDARD STACK TOP VIEW & PANEL TYPES	REVERSE STACK TOP VIEW & PANEL TYPES
X	1P-1T-1P	X(R)	X(L)
XX	2P-2T-1P	PX X(R)	X(L) PX
XXX	3P-3T-1P	PX PX X(R)	X(L) PX PX
XXXX	4P-4T-1P	PX PX PX X(R)	X(L) PX PX PX
XX	2P-1T-2P	AX X(L)	
XXXX	4P-2T-2P	PX AX X(L) PX	
XXXXXX	6P-3T-2P	PX PX AX X(L) PX PX	
XXXXXXXX	8P-4T-2P	PX PX PX AX X(L) PX PX PX	

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Jamesb Whittum

SEP 0[illegible] 2008

CFG

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SHEET 8

9000Series SGD Design Pressures (psf)

Buck Size (inches)		Call Name	# of 1/4 Screws			7/16" An.		7/16" Ann. IG		7/16" HS		7/16" HS IG		9/16" An.		9/16" HS	
Width	Height		Jamb	Hdr	Sill	Ext.(+)	Int.(-)	Ext.(+)	Int.(-)	Ext.(+)	Int.(-)	Ext.(+)	Int.(-)	Ext.(+)	Int.(-)	Ext.(+)	Int.(-)
24	80	2068	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30	80	2668	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36	80	3068	8	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48	80	4068	8	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
24	84	2070	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30	84	2670	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36	84	3070	8	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48	84	4070	8	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
24	88	2074	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30	88	2674	8	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36	88	3074	8	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48	88	4074	8	6	6	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
24	92	2078	10	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30	92	2678	10	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36	92	3078	10	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48	92	4078	10	6	6	63.8	63.8	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
24	96	2080	10	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
30	96	2680	10	4	4	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
36	96	3080	10	6	6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0
48	96	4080	10	6	6	60.6	60.6	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0

LIMIT EXTERIOR (+) LOADS AS FOLLOWS
1 1/2" SILL HEIGHT = +30.0 PSF
2" SILL HEIGHT = +45.0 PSF
2 1/2" SILL HEIGHT = +60.0 PSF
3" SILL HEIGHT = +75.0 PSF
4" SILL HEIGHT = +105.0 PSF

DESIGN LOAD ANALYSIS NOTES:
- VALUES BASED ON PA201, 202, & 203 TEST RESULTS.
- STRUCTURAL ANALYSIS NOT APPLICABLE FOR IMPACT-RESISTANT PRODUCTS.
- GLASS ANALYSIS PER ASTM E1300.
- FASTENER CALCULATIONS FOR SHEAR AND BENDING HAVE BEEN CALCULATED WITH A .164" SCREW DIAMETER (FOR 1/4" NOMINAL) AND WITHOUT A 1/3 LOAD INCREASE.

- EXTERIOR ROW OF FASTENERS HAVE BEEN CALCULATED AT 50% ALLOWABLE LOAD AND MAY THEREFOR BE INSTALLED WITH A MAXIMUM EDGE DISTANCE OF 1.25".

THIS DOCUMENT MUST BE SIGNED AND SEALED TO BE VALID.

James B. Whittum, P.E
FL # 0027689
8533 Acorn Ridge Ct.
Tampa, Florida 33625
813-926-9719

James B. Whittum

JUL 0 9 2008

GLS

NUAIR

SERIES-9000 ALUM SLIDING GLASS DOOR (IMPACT)

NUAIR WINDOWS AND DOORS
8105 ANDERSON ROAD
TAMPA, FL. 33684
TEL. (800) 282-6627 FAX (813) 886-9737

revisions:			
no	date	by	description

date: 05/09/08
scale: 1/2" = 1"
dr. by: DI
chk. by:

drawing no.
SGD9000