

P E R M I T

CITY OF NAPOLEON
255 W. RIVERVIEW AVE
NAPOLEON, OHIO 43545

DIVISION OF BUILDING & ZONING
PH (419) 4010
FAX (419) 599-8393

PERMIT NO: 98338

DATE ISSUED: 10-01-98

ISSUED BY: BND

JOB LOCATION: 925 HARMONY DR

EST. COST: 8465.00

LOT #:

SUBDIVISION NAME:

OWNER: IMBROCK, RAY
ADDRESS: 925 HARMONY DR
CSZ: NAPOLEON, OH 43545
PHONE: 419-592-0184

AGENT: SASH & STORM INC
ADDRESS: 2121 ELIDA RD
CSZ: LIMA, OH 45805
PHONE: 419-225-3308

USE TYPE - RESIDENTIAL:

OTHER:

ZONING INFORMATION

DIST: LOT DIM:
MAX HT: # PKG SPACES:

AREA: # LOADING SP:

FYRD: SYRD: RYRD:
MAX LOT COV:

BOARD OF ZONING APPEALS:

WORK TYPE - NEW: REPLMNT:

ADD'N:

ALTER: REMODEL:

WORK INFORMATION

SIZE - LGTH: WIDTH: HEIGHT:
GARAGE AREA SF:

STORIES: LIVING AREA SF:
BLDG VOL DEMO PERMIT:

WORK DESCRIPTION
PATIO ENCLOSURE 9X12

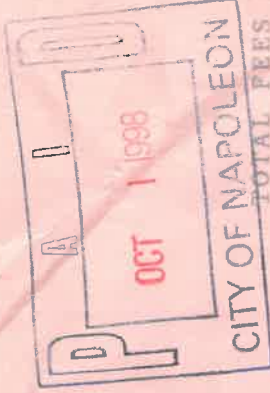
FEE DESCRIPTION

PAID DATE

FEE AMOUNT DUE

BUILDING PERMIT

55.00



TOTAL FEES DUE

55.00

10-1-98
DATE

Ray Imbrock
APPLICANT SIGNATURE

APPLICANT SIGNATURE

DATE

APPROVED SIGNATURE



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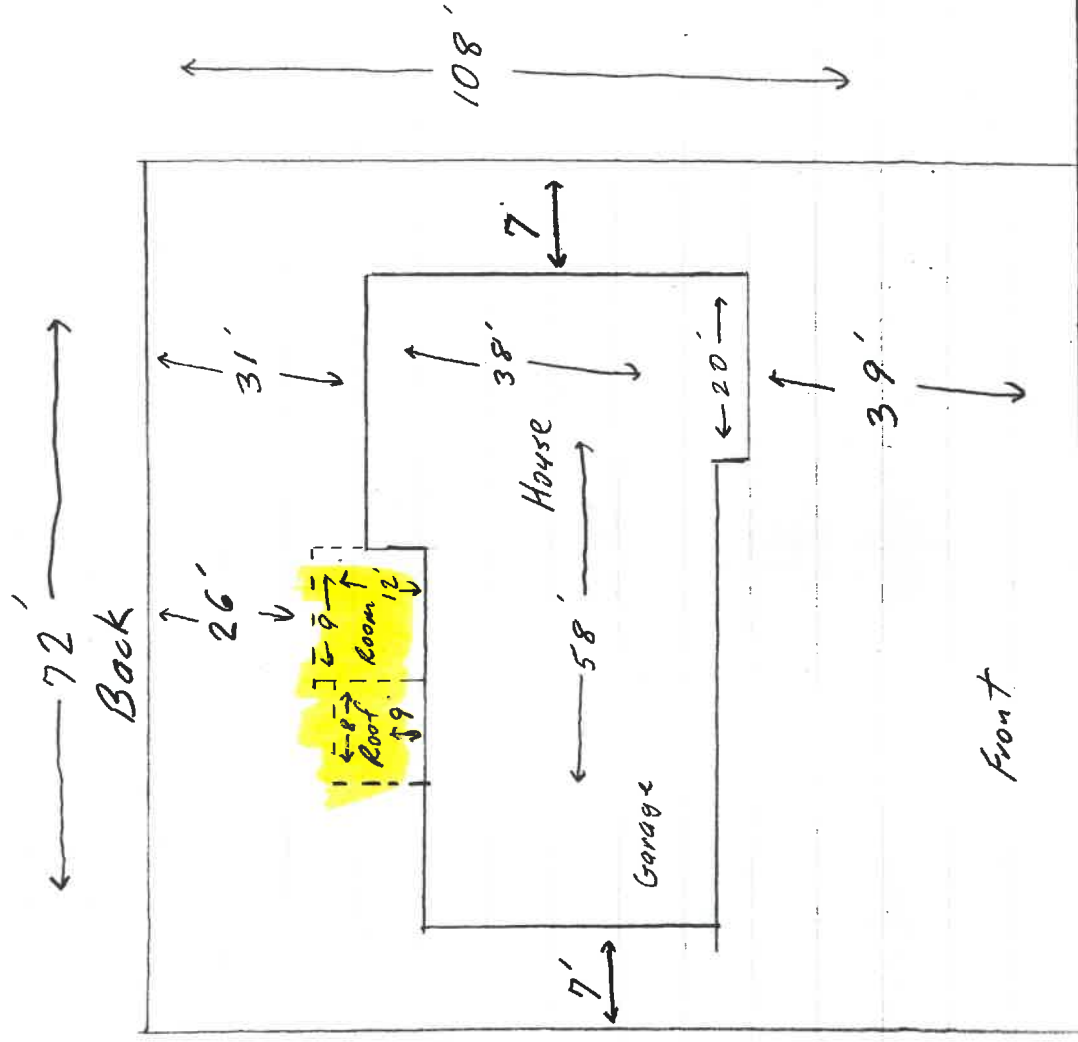
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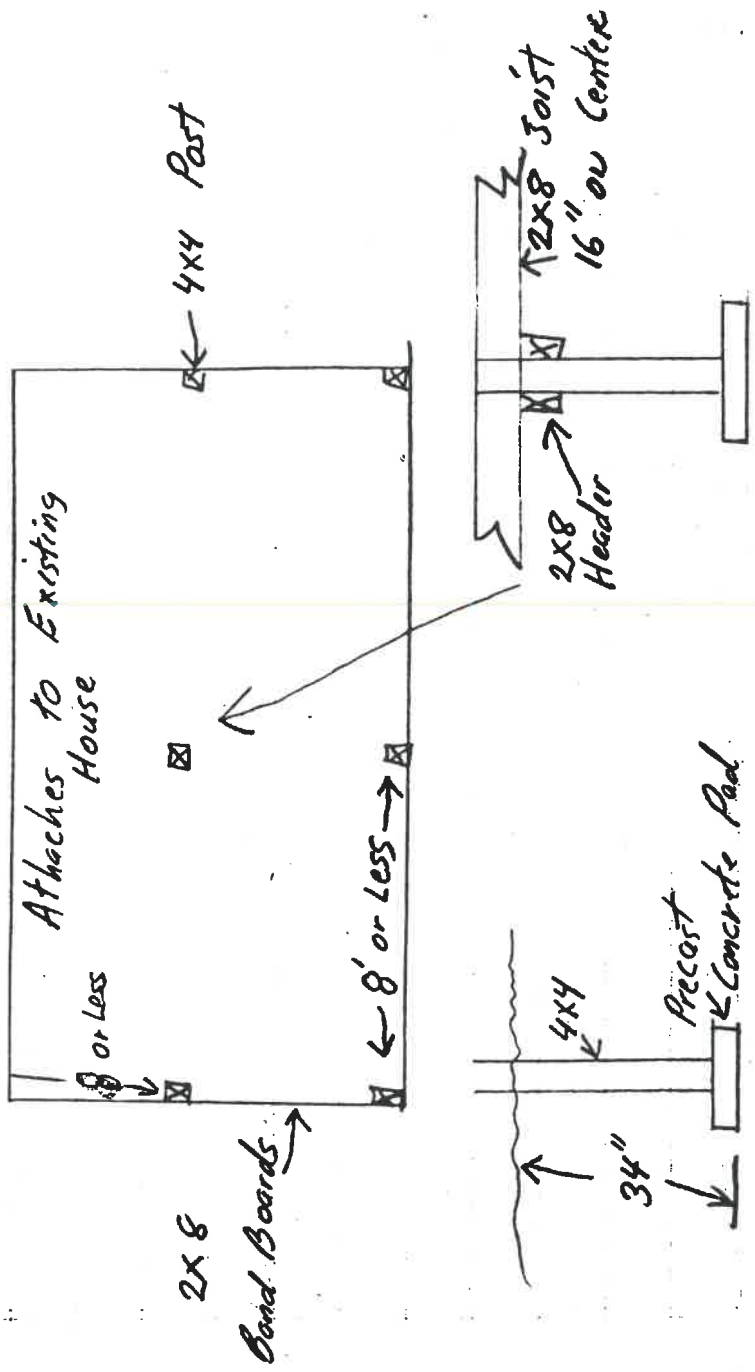


925 N. Harmony Drive

Raymond + Velma Imbrook
 925 N. Harmony Dr
 Napoleon 43545
 592-0184

3 Season Patio Room

Not to Scale



4x4 Post 34" Below Grade Sitting on Precast Concrete Pads

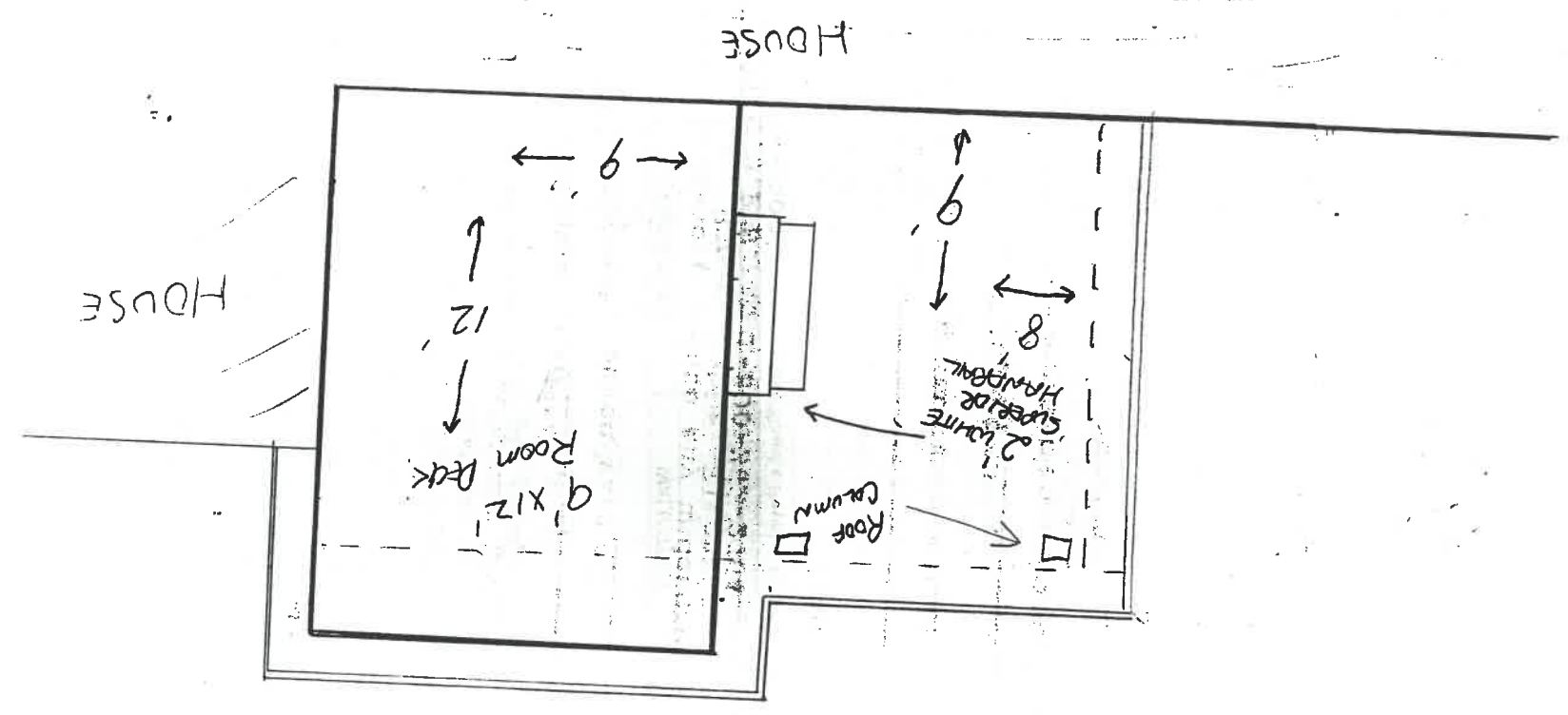
2x8 Joist 16" on Center

2x8 Headers and Bond Boards

3/4" T&G Structure Wood Sub Floor

All Lumber Treated with a .40 Saturation Level Except the Sub Floor

10' x 18' EXISTING SLAB
 ROOF OVERHANG - KEEP 1 OVERHANG ON BOTH SIDES OF ROOM
 9' x 12' 3 Season Paho Enclosure on wood Deck
 8' x 9' Roof over existing Pod



1.2 INTRODUCTION

1.2

11-1 BACKGROUND

The patio rooms referenced in this package, known commercially as Betterliving® Patio Rooms, are manufactured and sold by Craft-Bilt Manufacturing Company of Souderton, PA. Craft-Bilt Manufacturing Company has manufactured a wide range of aluminum home improvement products since 1946.

11-2 BETTERLIVING PATIO ROOM SYSTEMS



A-FRAME ROOM

The gable or A-Frame roof construction features a structurally designed ridge beam of extruded aluminum alloy. The introduction of an independently supported ridge beam essentially eliminates all outward thrust at the eaves level.



STUDIO ROOM

The mono-pitch or studio roof system features a pitched roof with a minimum slope of one inch per foot of projection. It is fastened to the existing structure by means of an extruded aluminum alloy section.

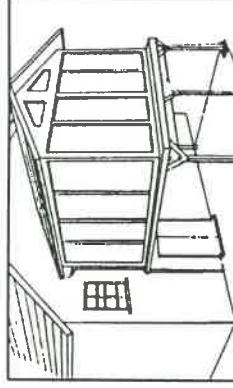
Betterliving Patio Rooms have been installed successfully in a variety of locations, as shown:



ROOM ON SLAB



ROOM ON DECK



ROOM ON BALCONY

11-3 STRUCTURAL PROPERTIES

Honeycomb and polystyrene panels were tested for load and deflection performance in accordance with the American Society for Testing and Materials (ASTM) method E72-80. Work was performed under the supervision of an independent engineering laboratory. Span tables in this package show the allowable roof loads.

11-4 FIRE RATINGS

Honeycomb and Polystyrene panels were tested for fire resistance by an independent testing laboratory. Based on the test results, the panels are classified as Type 5B construction materials.

11-5 WARRANTY

Properly installed products are warranted by the manufacturer. Contact Craft-Bilt Manufacturing Co. or refer to the Betterliving Engineering Manual for further information.

Betterliving
PATIO ROOMS

TABLE 1-3 - CERTIFIED ENGINEERING DATA

The following tables and figures have been reviewed and approved by a professional engineer.

Table #	Revision	Figure #	Revision
22-1	504-1	40-1	504-1
22-2	504-1	40-2	504-1
23-1	504-1		
33-1	504-1	50-1	504-1
		50-2	504-1
62-1	504-1	73-1	504-1
		73-2	504-1
70-1	504-1		
73-1	504-1		
73-2	504-1		

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Signature

1/9/96

Date

Seal

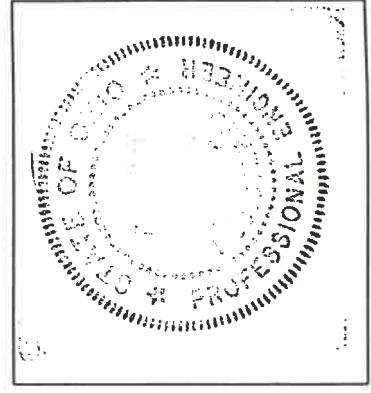


TABLE 22-1 - CONFORMANCE SPECIFICATIONS FOR 3" THICK HONEYCOMB PANELS

2.2.1

PHYSICAL PROPERTIES OF 3" THICK HONEYCOMB PANELS AND ATTACHING EXTRUSIONS

COMPONENT	MATERIAL	SIZE / PROPERTIES	STRENGTH
FACING	1. A.S.T.M. 3003 H194 2. A.S.T.M. 3004 H374 3. A.S.T.M. 3105 H194 ALUMINUM ALLOY	WIDTH = 37.2" ± 0.02" THICKNESS = 0.024" ± 0.001" DENSITY = 168±3.0 PCF COEF. TH. EXP. = 0.000013	1. TENSILE ULTIMATE STRENGTH = 27,000-33,000 PSI 2. TENSILE ULTIMATE STRENGTH = 35,000-41,000 PSI 3. TENSILE ULTIMATE STRENGTH = 32,000-38,000 PSI ELONGATION 1% TO 3%
CORE	HONEYCOMB 99# KRAFT PAPER 1. 11% ± 2% RESIN CONTENT 2. 18% ± 2% RESIN CONTENT	WIDTH = 35.0" ± 0.5" THICKNESS = 2.95" ± 0.01" CELL SIZE = 0.75" ± 0.15" DENSITY = 1.7±0.25 PCF COEF. TH. EXP. = 0.000069 ADSORPTION > 3%	1. COMPRESSIVE ULT. STRENGTH (DRY) = 57-77 PSI 1. COMPRESSIVE ULT. STRENGTH (WET) = 20-28 PSI 1. SHEAR ULTIMATE STRENGTH (L) = 37-51 PSI 1. SHEAR ULTIMATE STRENGTH (T) = 20-28 PSI
ADHESIVE	MOISTURE CURING, ONE-PART, 100% SOLIDS, NON-VOLATILE, TYPE II URETHANE ADHESIVE	DENSITY = 68.5 PCF	FLEXURAL YIELD STRENGTH (L, AL-HC) = 982 PSI FLEXURAL YIELD STRENGTH (T, AL-HC) = 568 PSI
EXTRUSIONS	A.S.T.M. 6063 T6	A-FRAME SUPPORT PANEL HANGER H-, U-, C-, F-CHANNELS CORNER POST THERMAL BREAK H, HANGER	TENSILE ULTIMATE STRENGTH = 30,000 PSI TENSILE YIELD STRENGTH = 25,000 PSI COMPRESSIVE YIELD STRENGTH = 25,000 PSI SHEAR ULTIMATE STRENGTH = 19,000 PSI SHEAR YIELD STRENGTH = 14,000 PSI BEARING ULTIMATE STRENGTH = 63,000 PSI BEARING YIELD STRENGTH = 40,000 PSI MODULUS OF ELASTICITY = 10,100,000 PSI
PANEL	HONEYCOMB SANDWICH PANEL	WIDTH = 35.9" ± 0.1" THICKNESS = 3.0" ± 0.01" R-FACTOR = 4	STRENGTH CHARACTERISTICS TABULATED BELOW FLAME SPREAD INDEX = 40 SMOKE DEVELOPED INDEX = 335

TRANSVERSE LOAD TABLE FOR 3" THICK HONEYCOMB PANELS

LOAD DESCRIPTION	ROOF LOADS (psf) FOR PANEL SPANS		
	8 ft	10 ft	12 ft
ULT. TRANSVERSE LOADS/FACTOR OF SAFETY			
1. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 1.0	170	140	105
2. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 2.0	85	70	52
3. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 2.5	68	56	42
4. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 3.0	57	47	35
DEFLECTION LOADS			
5. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 60	187	102	61
6. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 120	94	51	30
7. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 180	62	34	20

TABLE 22-2 - CONFORMANCE SPECIFICATIONS FOR 3" THICK HONEYCOMB PANELS (CONTINUED)

24 HOUR TRANSVERSE LOAD TABLE FOR 3" x 12' SPAN HONEYCOMB PANELS

DESCRIPTION	TEST RESULTS
24 HOUR TRANSVERSE LOAD	
1. AVERAGE TRANSVERSE LOAD FOR 24 HOURS	62.5 psf
24 HOUR DEFLECTION	
2. INSTANTANEOUS PANEL RECOVERY AFTER LOAD TEST	93.9 %
3. ROOF DEFLECTION AT 24 HOUR LOAD (62.5 psf)	2.4 in

RACKING LOAD TABLE FOR 8' x 8' ROOF SECTION USING 3" HONEYCOMB PANELS WITH VINYL CLEATS

DESCRIPTION	TEST RESULTS
ULT. RACKING LOADS/FACTOR OF SAFETY	
1. ROOF LOAD AT ULTIMATE RACKING LOAD / 1.0	2400 lb 300 lb/ft
2. ROOF LOAD AT ULTIMATE RACKING LOAD / 2.0	1200 lb 150 lb/ft
3. ROOF LOAD AT ULTIMATE RACKING LOAD / 2.5	960 lb 120 lb/ft
4. ROOF LOAD AT ULTIMATE RACKING LOAD / 3.0	800 lb 100 lb/ft
ULTIMATE RACKING DEFLECTION	
5. ROOF DEFLECTION AT ULTIMATE RACKING LOAD	0.712 in

TABLE 23-1 - CONFORMANCE SPECIFICATIONS FOR 3" THICK HONEYCOMB PANELS WITH H-STIFFENERS

PHYSICAL PROPERTIES OF 3" THICK HONEYCOMB PANELS AND ATTACHING EXTRUSIONS

COMPONENT	MATERIAL	SIZE / PROPERTIES	STRENGTH
FACING	1. A.S.T.M. 3003 H194 2. A.S.T.M. 3004 H374 3. A.S.T.M. 3105 H194 ALUMINUM ALLOY	WIDTH = 37.2" ± 0.02" THICKNESS = 0.024" ± 0.001" DENSITY = 168 ± 3.0 PCF COEF. TH. EXP. = 0.000013	1. TENSILE ULTIMATE STRENGTH = 27,000-33,000 PSI 2. TENSILE ULTIMATE STRENGTH = 35,000-41,000 PSI 3. TENSILE ULTIMATE STRENGTH = 32,000-38,000 PSI ELONGATION 1% TO 3%
CORE	HONEYCOMB 99# KRAFT PAPER 1. 11% ± 2% RESIN CONTENT 2. 18% ± 2% RESIN CONTENT	WIDTH = 35.0" ± 0.5" THICKNESS = 2.95" ± 0.01" CELL SIZE = 0.75" ± 0.15" DENSITY = 1.7 ± 0.25 PCF COEF. TH. EXP. = 0.000069 ADSORPTION > 3%	1. COMPRESSIVE ULT. STRENGTH (DRY) = 57-77 PSI 1. COMPRESSIVE ULT. STRENGTH (WET) = 20-28 PSI 1. SHEAR ULTIMATE STRENGTH (L) = 37-51 PSI 1. SHEAR ULTIMATE STRENGTH (T) = 20-28 PSI
ADHESIVE	MOISTURE CURING, ONE-PART, 100% SOLIDS, NON-VOLATILE, TYPE II URETHANE ADHESIVE	DENSITY = 68.5 PCF	FLEXURAL YIELD STRENGTH (L, AL-HC) = 992 PSI FLEXURAL YIELD STRENGTH (T, AL-HC) = 568 PSI
EXTRUSIONS	A.S.T.M. 6063 T6	A-FRAME SUPPORT PANEL HANGER H-, U-, C-, F-CHANNELS CORNER POST THERMAL BREAK H, HANGER	TENSILE ULTIMATE STRENGTH = 30,000 PSI TENSILE YIELD STRENGTH = 25,000 PSI COMPRESSIVE YIELD STRENGTH = 25,000 PSI SHEAR ULTIMATE STRENGTH = 19,000 PSI SHEAR YIELD STRENGTH = 14,000 PSI BEARING ULTIMATE STRENGTH = 63,000 PSI BEARING YIELD STRENGTH = 40,000 PSI MODULUS OF ELASTICITY = 10,100,000 PSI
PANEL	HONEYCOMB SANDWICH PANEL WITH H-STIFFENERS	WIDTH = 35.9" ± 0.1" THICKNESS = 3.0" ± 0.01" R-FACTOR = 4	STRENGTH CHARACTERISTICS TABULATED BELOW FLAME SPREAD INDEX = 45 SMOKE DEVELOPED INDEX = 230

TRANSVERSE LOAD TABLE FOR 3" THICK HONEYCOMB PANELS WITH H-STIFFENERS

LOAD DESCRIPTION	ROOF LOADS (psf) FOR PANEL SPANS	
	10 ft	12 ft
ULT. TRANSVERSE LOADS/FACTOR OF SAFETY		
1. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 1.0	219	154
2. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 2.0	110	77
3. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 2.5	88	61
4. ROOF LOAD AT ULTIMATE TRANSVERSE LOAD / 3.0	73	51
DEFLECTION LOADS		
5. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 60	160	99
6. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 120	80	49
7. ROOF LOAD AT PANEL DEFLECTION OF SPAN / 180	53	33

TABLE 70-1 - FASTENER NOTES

7.0.1b

MANUFACTURER'S PERFORMANCE DATA

Performance Data - TEK Self Drilling Fasteners

Fastener		PULLOUT VALUES (average lbs. ultimate)						
		Steel Gauge						
Dia.	Pt.	26	24	22	20	18	16	14
#6	2	120	183	248	296	471	679	847
#8	2	119	193	265	298	491	703	959
#10	2	131	214	272	368	547	784	1033

Gauge No.	18	20	21	22	23	24	25	26
Alum. Decimal Equiv.	0.040"	0.032"	0.028"	0.025"	0.023"	0.020"	0.018"	0.018"
Steel Decimal Equiv.	0.048"	0.036"	0.034"	0.030"	0.027"	0.024"	0.021"	0.018"

FASTENER VALUES			
Fastener (dia-tpi)	Tensile (lbs. min.)	Shear (ave. lbs. ult.)	Torque (min. in. lbs.)
6 to 20	1285	750	25
8 to 18	1545	1000	42
10 to 16	1936	1400	61

SHEAR VALUES (average lbs. ultimate)									
Fastener		Steel Gauge (lapped)							
Dia.	Pt.	26/26	24/24	22/22	20/20	18/18			
#6	2	278	466	526	758	845			
#8	2	294	496	560	740	1060			
#10	2	312	478	589	830	1206			

The values listed above, provided by the fastener manufacturer, are ultimate averages achieved under laboratory conditions.

Installation Guidelines

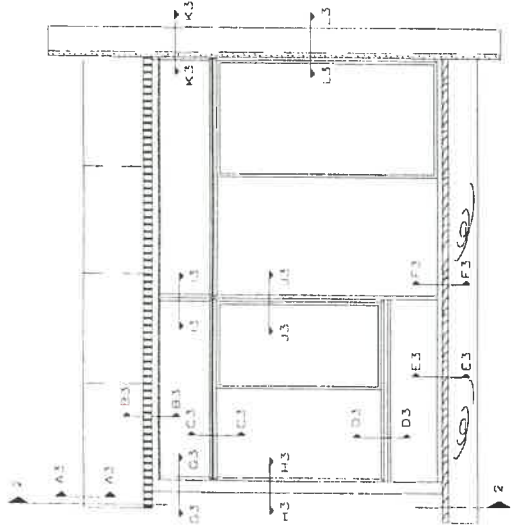
- 1) Spacing between fasteners shall always exceed 0.5 inches.
- 2) Clearance between fasteners and edge of sheet or shape shall always exceed 0.5 inches.
- 3) Use a standard screwgun with a depth sensitive nosepiece to install Tek's. For optimal fastener performance, the screwgun should be a minimum of 4 amps and have a RPM range of 0-2000.
- 4) Adjust the screwgun nosepiece to properly seat the fastener.
- 5) Set new magnetic sockets correctly before use. Remove chip buildup as needed.
- 6) The fastener is fully seated when the head is flush with the work surface.
- 7) Overdriving may result in torsional failure of the fastener or stripout of the substrate.
- 8) The fastener must penetrate beyond the metal structure a minimum of 3 pitches of thread.

NOTES

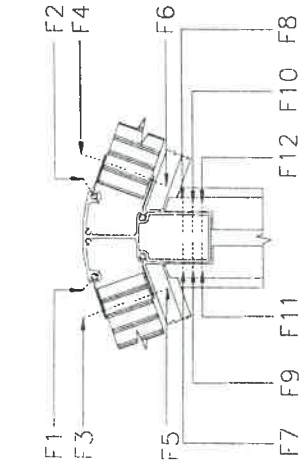
- 1) For calculation purposes (Table 72-1 through 76-1), assume:
 - Allowable pull out strength of 8-18 T2 in 0.024" aluminum sheet = 70 lb.
 - Silicone bonding transfers 25% of connection load.
 - Allowable shear strength of 8-18 T2 in 0.024" aluminum sheet = 170 lb.
 - Allowable bearing strength of 8-18 T2 in 0.065" aluminum sheet = 125 lb.

FIGURE 73-1 - WALL CONNECTIONS

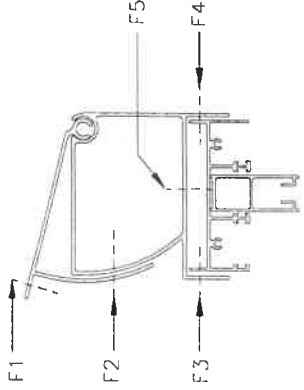
7.3.1



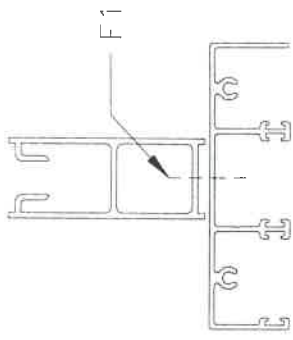
A-FRAME ROOM SIDE WALL SECTION (3-3)



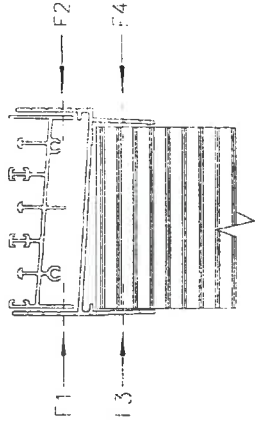
SECTION A-3



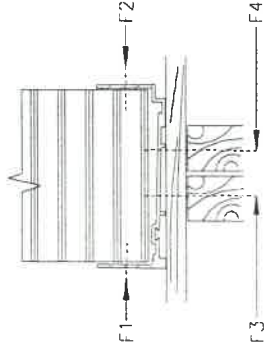
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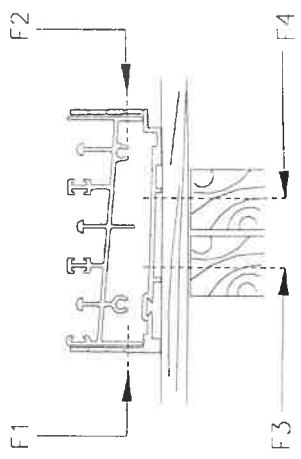
SECTION C-3



SECTION D-3



SECTION E-3



SECTION F-3

TABLE 73-1 - WALL CONNECTIONS

FASTENER SPECIFICATIONS FOR A-FRAME SIDE WALL

SECTION	FASTENER SET	DESIGNATION	SILICONE SEAL	CONNECT FROM	CONNECT TO	SPAN	MAXIMUM SPACING BETWEEN FASTENERS (in)						
							PANEL (ft)	UPLIFT 10 psf	UPLIFT 20psf	UPLIFT 30 psf	UPLIFT 40 psf	UPLIFT 50 psf	
A-3	F1	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	A-Frame Beam	8'-18'	ends only	ends only	ends only	ends only	ends only		
	F2	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	A-Frame Beam		8"	8"	8"	8"	8"		
	F3	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	Roof Panel	10'	8"	8"	8"	8"	8"		
	F4	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	Roof Panel		8"	8"	8"	8"	8"		
	F5	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	Roof Panel	14'	8"	8"	8"	8"	8"		
	F6	# 8 x 1/2" (Tek)	Yes	A-Frame Flange	Roof Panel		8"	8"	8"	8"	8"		
	F7	# 8 x 1/2" (Tek)		3" H	A-Frame Beam	16'	8"	8"	8"	8"	8"		
	F8	# 8 x 1/2" (Tek)		3" H	A-Frame Beam		8"	8"	8"	8"	8"		
	F9	# 8 x 1/2" (Tek)		3" H	A-Frame Beam	18'	8"	8"	8"	8"	8"		
	F10	# 8 x 1/2" (Tek)		3" H	A-Frame Beam		8"	8"	8"	8"	8"		
	F11	# 8 x 1/2" (Tek)		3" H	A-Frame Beam	18'	8"	8"	8"	8"	8"		
	F12	# 8 x 1/2" (Tek)		3" H	A-Frame Beam		8"	8"	8"	8"	8"		
B-3	F1	# 8 x 1/2" (Tek)		Header Arm	Roof Panel	8'	8"	8"	7"	6"	4"		
	F2	# 8 x 1/2" (Tek)		Header Arm	Header Support		10"	30"	30"	17"	13"	10"	
	F3	# 8 x 1/2" (Tek)		Header Support	Header Support	12'	30"	18"	14"	11"	9"		
	F4	# 8 x 1/2" (Tek)		Header Support	Header Support	14'	30"	18"	13"	9"	8"		
	F5	# 8 x 3/4" (Tek)		Door Header	Header Support	16'	30"	17"	11"	8"	7"		
	C-3	F1	# 8 x 1/2" (Tek)	Yes	Glass Handle	Door Header	8'-18'	24"	24"	24"	24"	24"	
		F2	# 8 x 1/2" (Tek)		Off-Set H	Window Sill	8'-18'	15"	15"	15"	15"	15"	
		F3	# 8 x 1/2" (Tek)		Off-Set H	Wall Panel		15"	15"	15"	15"	15"	
		F4	# 8 x 1/2" (Tek)		Off-Set H	Window Sill	8'-18'	15"	15"	15"	15"	15"	
		F5	# 8 x 1/2" (Tek)		Off-Set H	Wall Panel		15"	15"	15"	15"	15"	
		D-3	F1	# 8 x 1/2" (Tek)		W/F-Channel	Wall Panel	8'-18'	15"	15"	15"	15"	15"
			F2	# 8 x 1/2" (Tek)		W/F-Channel	Wall Panel		15"	15"	15"	15"	15"
F3			# 14 x 2"-3" (Hex)	Yes	W/F-Channel	Wooden Deck	8'-18'	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	
F4			# 14 x 2"-3" (Hex)	Yes	W/F-Channel	Wooden Deck		32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	32"-48" +3/column	
E-3		F1	# 8 x 1/2" (Tek)		W/F-Channel	Concrete Slab	8'-18'	15"	15"	15"	15"	15"	
		F2	# 8 x 1/2" (Tek)		W/F-Channel	Concrete Slab		15"	15"	15"	15"	15"	
		F3	# 1/4"x1 1/2" Nail Anchor	Yes	W/F-Channel	Concrete Slab	8'-18'	12"	12"	12"	12"	12"	
	F4	# 1/4"x1 1/2" Nail Anchor	Yes	W/F-Channel	Concrete Slab	12"		12"	12"	12"	12"		
F-3	F1	# 8 x 1/2" (Tek)		D/F-Channel	Door Sill	8'-18'	16"-24" +3/column	16"-24" +3/column	16"-24" +3/column	16"-24" +3/column	16"-24" +3/column		
	F2	# 8 x 1/2" (Tek)		D/F-Channel	Door Sill		16"-24" +3/column	16"-24" +3/column	16"-24" +3/column	16"-24" +3/column	16"-24" +3/column		
	F3	# 14 x 2"-3" (Hex)	Yes	D/F-Channel	Wooden Deck	8'-18'	12"	12"	12"	12"	12"		
	F4	# 14 x 2"-3" (Hex)	Yes	D/F-Channel	Wooden Deck		12"	12"	12"	12"	12"		

1) See Figure 73.1 and 73.2
2) See Table 70.1



TABLE 73-2 - WALL CONNECTIONS

7.3.2t

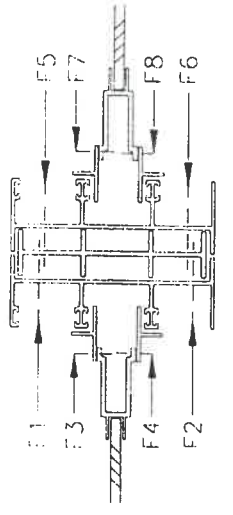
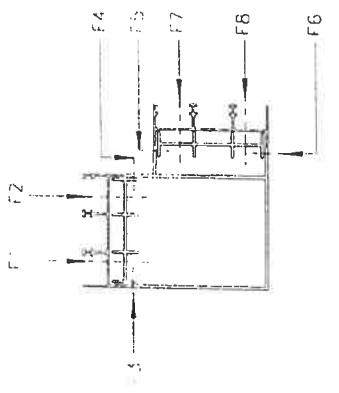
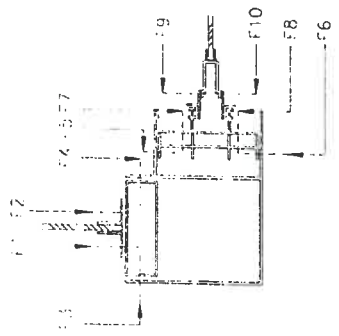
FASTENER SPECIFICATIONS FOR A-FRAME SIDE WALL (Continued)

SECTION	FASTENER SET	FASTENERS				CONNECT FROM	CONNECT TO	SPAN PANEL (ft)	MAXIMUM SPACING BETWEEN FASTENERS (in)				
		DESIGNATION	SILICONE SEAL	CONNECT FROM	CONNECT TO				UPLIFT 10 psf	UPLIFT 20psf	UPLIFT 30 psf	UPLIFT 40 psf	UPLIFT 50 psf
G-3	F1	# 8 x 1/2" (Tek)		3/4" Angle	1" x 3" Box	8'-18'	6"	6"	6"	6"	6"	6"	6"
	F2	# 8 x 1/2" (Tek)		3/4" Angle	1" x 3" Box								
	F3	# 8 x 1/2" (Tek)		Corner Column	1" x 3" Box								
	F4	# 8 x 1/2" (Tek)		Corner Column	1" x 3" Box								
	F5	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F6	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F7	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F8	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F9	# 8 x 1/2" (Tek)		Glass Rail	T								
	F10	# 8 x 1/2" (Tek)		Glass Rail	T								
H-3	F1	# 8 x 3/4" (Tek)		Door Jamb	Mullion	8'-18'	24"	24"	20"	16"	16"	16"	
	F2	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F3	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F4	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F5	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F6	# 8 x 1/2" (Tek)		Corner Column	Mullion								
	F7	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F8	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
I-3	F1	# 8 x 3/4" (Tek)		Door Jamb	Mullion	8'-18'	6"	6"	6"	6"	6"	6"	
	F2	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F3	# 8 x 1/2" (Tek)		T	Glass Rail								
	F4	# 8 x 1/2" (Tek)		T	Glass Rail								
	F5	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F6	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F7	# 8 x 1/2" (Tek)		T	Glass Rail								
	F8	# 8 x 1/2" (Tek)		T	Glass Rail								
J-3	F1	# 8 x 3/4" (Tek)		Door Jamb	Mullion	8'-18'	24"	24"	20"	16"	16"	16"	
	F2	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F3	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
	F4	# 8 x 3/4" (Tek)		Door Jamb	Mullion								
K-3	F1	#14 x 2'-3" (Hex)	Yes	U-Channel	Timber Wall	8'-18'	6"	6"	6"	6"	6"	6"	
	F2	#14 x 2'-3" (Hex)	Yes	U-Channel	Timber Wall								
	F1	1/4"x1 1/2" Nail Anchor	Yes	U-Channel	Masonry Wall								
	F2	1/4"x1 1/2" Nail Anchor	Yes	U-Channel	Masonry Wall								
	F3	# 8 x 1/2" (Tek)		U-Channel	Wall Expander								
	F4	# 8 x 1/2" (Tek)		U-Channel	Wall Expander								
	F5	# 8 x 3/4" (Tek)		Door Jamb	Wall Expander								
	F6	# 8 x 3/4" (Tek)		Door Jamb	Wall Expander								
F7	# 8 x 1/2" (Tek)		T	Glass Rail									
F8	# 8 x 1/2" (Tek)		T	Glass Rail									
L-3	F1	#14 x 2'-3" (Hex)	Yes	U-Channel	Timber Wall	8'-18'	32"-48"	32"-48"	32"-48"	32"-48"	32"-48"	32"-48"	
	F2	#14 x 2'-3" (Hex)	Yes	U-Channel	Timber Wall								
	F1	1/4"x1 1/2" Nail Anchor	Yes	U-Channel	Masonry Wall								
	F2	1/4"x1 1/2" Nail Anchor	Yes	U-Channel	Masonry Wall								
	F2	# 8 x 1/2" (Tek)		U-Channel	Wall Expander								
F3	# 8 x 1/2" (Tek)		U-Channel	Wall Expander									
F4	# 8 x 3/4" (Tek)		Door Jamb	Wall Expander									
F5	# 8 x 3/4" (Tek)		Door Jamb	Wall Expander									

1) See Figure 73.1 and 73.2

2) See Table 70.1

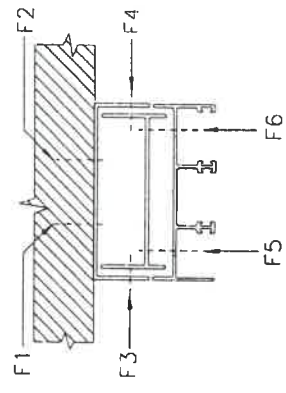
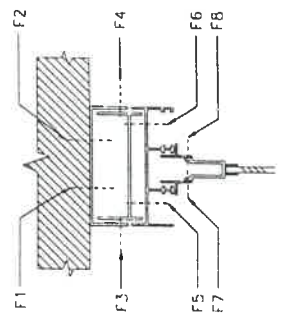
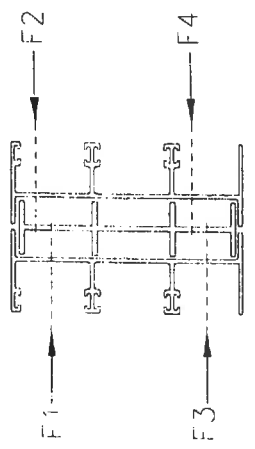
FIGURE 73-2 - WALL CONNECTIONS



SECTION G-3

SECTION H-3

SECTION I-3



SECTION J-3

SECTION K-3

SECTION L-3

