

PERMIT  
 CITY OF NAPOLEON, OHIO - BUILDING DEPARTMENT  
 255 West Riverview Avenue, Napoleon, Ohio 43545 - (419) 592-4010

Permit No. <u>3855</u> Issued <u>04/15/96</u>	FEES	BASE	PLUS	TOTAL
Job Location <u>840 W. Graceway</u>	<input checked="" type="checkbox"/> Building	\$ <u>9.00</u>	\$ <u>46.00</u>	\$ <u>55.00</u>
Lot _____	<input type="checkbox"/> Electrical	\$ _____	\$ _____	\$ _____
Issued by <u>Brent N. Damman</u>	<input type="checkbox"/> Plumbing	\$ _____	\$ _____	\$ _____
Owner <u>Ve Beverly Barden 592-6187</u>	<input type="checkbox"/> Mechanical	\$ _____	\$ _____	\$ _____
Address <u>840 W. Graceway</u>	<input type="checkbox"/> Demolition	\$ _____	\$ _____	\$ _____
Agent <u>Sash &amp; Storm, Inc. 419/225-3308</u>	<input type="checkbox"/> Zoning	\$ _____	\$ _____	\$ _____
Address <u>2121 Elida Rd. Lima, OH 45805</u>	<input type="checkbox"/> Sign	\$ _____	\$ _____	\$ _____
Use Type - Residential <u>X</u>	<input type="checkbox"/> Water Tap	\$ _____	\$ _____	\$ _____
Other - Describe _____	<input type="checkbox"/> Sew. Insp.	\$ _____	\$ _____	\$ _____
No. Dwelling Units _____	<input type="checkbox"/> Sewer Tap	\$ _____	\$ _____	\$ _____
New _____ Replacement _____	<input type="checkbox"/> Temp. Water	\$ _____	\$ _____	\$ _____
Add'n. <u>X</u> Alter _____ Remodel _____	<input type="checkbox"/> Temp. Elec.	\$ _____	\$ _____	\$ _____
Fixed Occupancy _____	TOTAL FEES.....			\$ <u>55.00</u>
Change of Occupancy _____	LESS FEES PAID.....			\$ <u>55.00</u>
Estimated Cost \$ <u>8775.00</u>	BALANCE DUE.....			\$ <u>-0-</u>

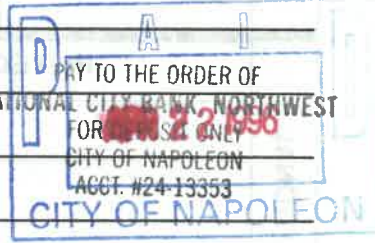
ZONING INFORMATION

district	lot dimensions		area	front yd	side yd	rear yd
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd		date appr

WORK INFORMATION

Size: Length 12' Width 12' Stories 1 Ground Floor Area 144  
 Height 7.5' Building Volume (for Demo. Permit) \_\_\_\_\_

Electrical: \_\_\_\_\_  
 Plumbing: \_\_\_\_\_  
 Mechanical: \_\_\_\_\_  
 Additional Information: Patio Enclosure



Date 4-15-96 Applicant Signature \_\_\_\_\_

# INSPECTION RECORD

UNDERGROUND			ROUGH-IN						FINAL			
Type	Date	By	Type	Date	By	Type	Date	By	Type	Date	By	
<b>PLUMBING</b>	Building Drains			Drainage, Waste & Vent Piping			Indirect Waste			Drainage, Waste & Vent Piping		
	Water Piping									Backflow Prevention		
	Building Sewer			Water Piping			Condensate Lines			Water Heater		
	Sewer Connection									FINAL APPROVAL		
<b>MECHANICAL</b>	Refrigerant Piping			Refrigerant Piping			Chimney(s)			Grease Exhaust System		
				Duct Furnace(s)			Fire Dampers			Air Cond. Unit(s)		
	Ducts/ Plenums			Ducts/ Plenums			<input type="checkbox"/> Radiant Htr(s) <input type="checkbox"/> Unit Htr(s)			Refrigeration Equipment		
				Duct Insulation			Pool Heater			Furnace(s)		
				Combustion Products Vents			Ventilation <input type="checkbox"/> Supply <input type="checkbox"/> Exhst.			FINAL APPROVAL		
<b>ELECTRICAL</b>	Conduits & or Cable			Conduits/ Cable			<input type="checkbox"/> Range <input type="checkbox"/> Dryer			Temp Service Temp Lighting		
	Grounding & or Bonding			Rough Wiring			<input type="checkbox"/> Generator(s) <input type="checkbox"/> Motors			Fixtures Lampholders		
	Floor Ducts Raceways			Service Panel Switchboard			<input type="checkbox"/> Water Htr <input type="checkbox"/> Welder			Signs		
	Service Conduit			Busways Ducts			<input type="checkbox"/> Heaters <input type="checkbox"/> Heat Cable			Electric Mtr. Clearance		
	Temporary Power Pole			Subpanels			<input type="checkbox"/> Duct Htr(s) <input type="checkbox"/> Furnace(s)			FINAL APPROVAL		
<b>BUILDING</b>	Location, Set-backs, Esmt(s)			Exterior Wall Construction			Roof Covering Roof Drainage			Smoke Detector		
	Excavation						Exterior Lath			Demolition (sewer cap)		
	Footings & Reinforcing						<input type="checkbox"/> Interior Lath <input type="checkbox"/> Wallboard			<i>Pat'd Enclosure 5/7 BD</i>		
	Floor Slab			Interior Wall Construction			Fire Wall(s)			Building or Structure		
	Foundation Walls			Columns & Supports			Fireplace Chimney					
	Sub-soil Drain			Crawl Space <input type="checkbox"/> Vent <input type="checkbox"/> Access			Attic <input type="checkbox"/> Vent <input type="checkbox"/> Access					
	Piles			Floor System(s)						FINAL APPROVAL BLDG. DEPT.		
				Roof System			Special Insp Reports Rec'd			Certificate of Occupancy Issued		
<b>ADDITIONAL</b>	INSPECTIONS, CORRECTIONS, ETC.						INSPECTIONS, CORRECTIONS, ETC.					

**PERMIT FOR**  
**Residential, Building, Electrical, Plumbing, Mechanical, and Demolition Permit**  
**FROM - The City of Napoleon, Ohio, Building Department**  
 255 West Riverview Avenue; P.O. Box 151; Napoleon, Ohio 43545 - Telephone (419) 592-4010

ENTRY NO. \_\_\_\_\_

PERMIT NO. 3855 ISSUED 4-15-96

JOB LOCATION 840 W. Graceway

LOT \_\_\_\_\_  
 (Subdivision or Legal Description)

ISSUED BY [Signature]  
 (Building Official)

OWNER Beverly Borden PHONE 592-6187

ADDRESS 840 W. Graceway

AGENT Sash + Storm, Inc PHONE 419-225-3308

ADDRESS 2121 Elida Rd, Lima, OH 45805

USE:  Residential  Commercial  Industrial  
 Other \_\_\_\_\_

WORK:  New  Addition  Replacement  Remodel

ESTIMATED COST = \$ 8775-

	Base	Plus	Total
<input checked="" type="checkbox"/> Building	\$ 9.00	\$ <del>1.00</del> 46.00	\$ <del>12.00</del> 55.00
<input type="checkbox"/> Electrical	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Plumbing	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Mechanical	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Demolition	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Zoning	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Sign	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Water Tap	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Sewer Tap	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Temp Water	\$ _____	\$ _____	\$ _____
<input type="checkbox"/> Temp Elec.	\$ _____	\$ _____	\$ _____

Additional Structure \_\_\_\_\_ Hours \_\_\_\_\_  
 Plan Review: Electric \_\_\_\_\_ Hours \_\_\_\_\_ 55.00  
 TOTAL FEES . . . . . \$ 55.00  
 Less Fees Paid . . . . . \$ 18.00  
 BALANCE DUE . . . . . \$ 37.00

**ZONING INFORMATION**

District	Lot Dimensions	Area	Front Yard	Side Yard	Rear Yard

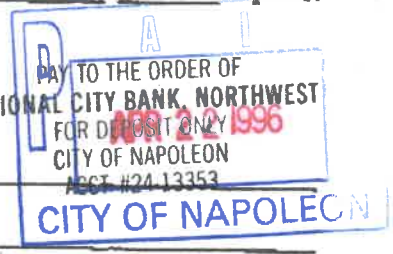
  

Max Height	No. Pkg. Spaces	No. Ldg. Spaces	Max Cover	Petition or Appeal Required-Date

**WORK INFORMATION**

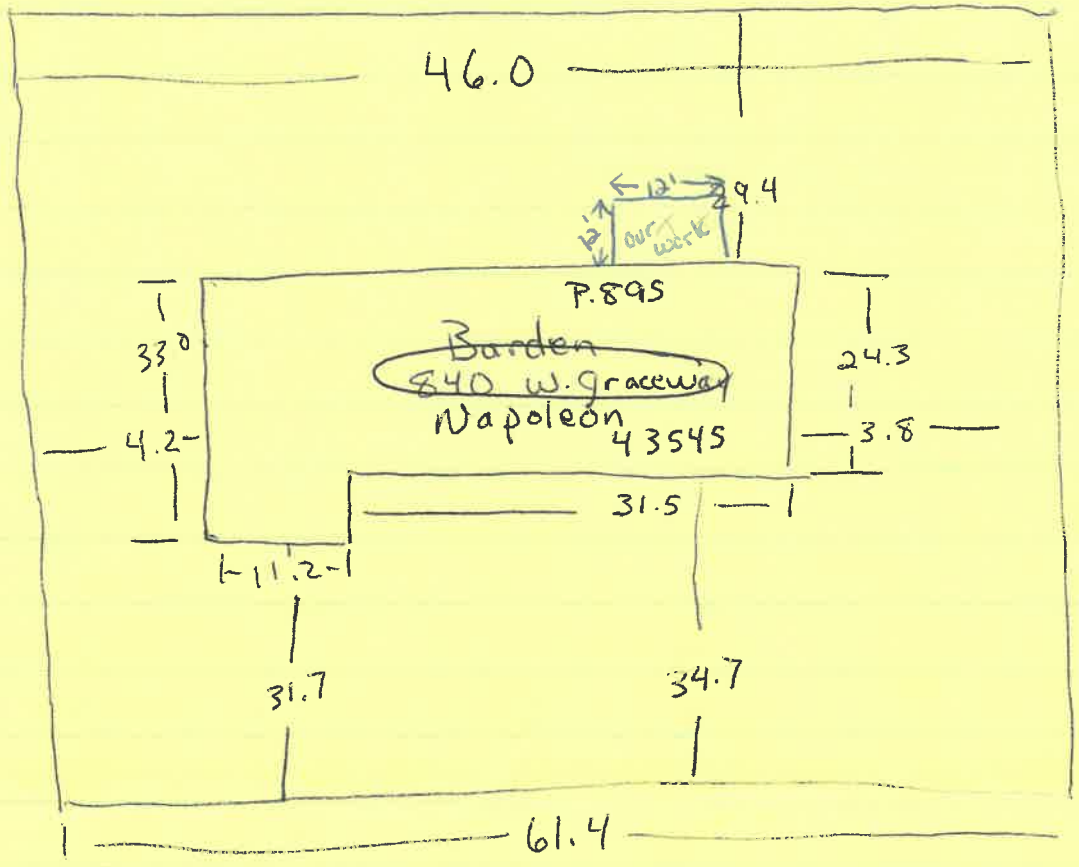
Building: Ground Floor Area 144 sq. ft. Basement Floor Area \_\_\_\_\_ sq. ft.  
 Garage Floor Area \_\_\_\_\_ sq. ft. 2nd Floor Area \_\_\_\_\_ sq. ft. Other \_\_\_\_\_ sq. ft.  
 Size: Length 12' Width 12' Stories 1 Height 7.5'  
 Building Volume (for Demolition Permit) \_\_\_\_\_ cubic feet

Description of Work: patio enclosure



1988 S. S. 1988

Handwritten signature or scribble

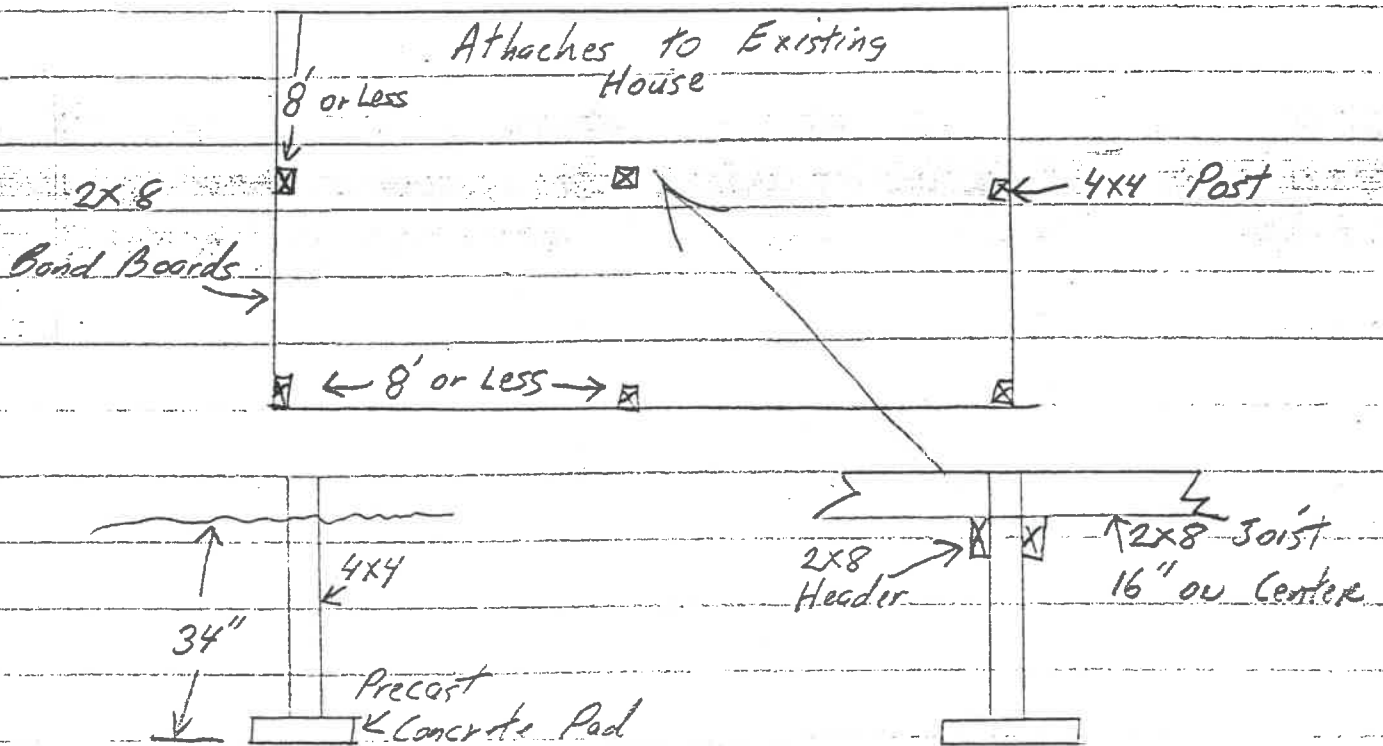


w. Graceway





Not to Scale



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

2x8 Joist 16" on Center

2x8 Headers and Band Boards

3/4" T&G Structure Wood Sub Floor

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





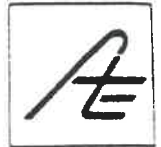
**AMBRIC ENGINEERING, INC.**

3502 SCOTTS LANE, PHILADELPHIA, PA 19129 ■ PHONE 215 438-2689  
FAX 215 438-7110

- Consulting Engineers
- Surveyors
- Inspectors

**CERTIFICATION BY PROFESSIONAL ENGINEER**

Betterliving Patio Rooms  
PanelCraft Honeycomb Building Panels



To Whom It May Concern:

The engineering tests and design data included in this brochure have been reviewed and approved by a professional engineer registered in the State of OHIO

The structural tests and design data described herein were performed in our laboratories under the direct supervision of professional engineers. Affixed is the official engineering stamp and authorized signature:

4-27-94

A handwritten signature in cursive script, appearing to read 'A. W. [unclear]'. It is positioned to the right of the date.

Please contact us if you have any questions about the engineering data contained in this brochure.



# AMBRIC ENGINEERING, INC.

3502 SCOTTS LANE. PHILADELPHIA, PA 19129 ■ PHONE 215 438-2689  
FAX 215 438-7110

- Consulting Engineers
- Surveyors
- Inspectors

April 27, 1994



Ambric Engineering performed a series of structural tests and evaluations on two types of composite panels manufactured by a Philadelphia based company called Craft-Bilt. The first type of panel had a polystyrene core with aluminum sheeting adhered to each of the core faces. The second type of panel had a honey-comb core with aluminum sheeting again, on each of the faces. All tests were performed in strict accordance with the relevent A.S.T.M. procedures and were conducted under the direct supervision of a Professional Engineer. The results of these tests are enclosed and comprise:

- Conformance Specifications for Honeycomb Roof Panels
- Conformance Specifications for Polystyrene Roof Panels
- Conformance Specifications for Honeycomb Wall Panels
- Attachment Details

Our client proposes to market the panel systems in various states throughout the USA. Conformance specifications and attachment details will require Professional Engineering Seals for each state involved. Please study and review the enclosed documents so that Engineering approval will be granted in each state where the product will be sold.

Yours sincerely,

Donald D. Meisel  
President



CONFORMANCE SPECIFICATIONS

( HONEYCOMB WALL ASSEMBLIES )

-----  
 TRANSVERSE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; UNIFORM LOADING USING AIR-BAG.  
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WALL SPAN (FT.)	6	6
TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (PSF)	FRAMED (DOORS/WINDOWS) (PSF)
MAXIMUM WALL LOAD	100	100
WALL LOAD AT DEFLECTION = (SPAN/180)	100+	86
WALL LOAD USED IN 24 HR LOAD/DEFN. TEST	80	80
ALLOWABLE WALL LOAD *	40	40

\* FOUNDED ON THE LESSER OF a) THE MAXIMUM WALL LOAD WITH A SAFETY FACTOR OF 2.5 OR b) THE WALL LOAD AT DEFLECTION = (SPAN/180) OR c) THE WALL LOAD USED IN THE 24 HOUR LOAD / DEFLECTION RECOVERY TEST.

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 24 HOUR LOAD / DEFLECTION RECOVERY (WALL LOADING DATA) : TEST TO B.O.C.A. NATIONAL BUILDING CODE (1988 SUPPLEMENT), SECTION 1305.0 ON 3" THICK ASSEMBLIES; UNIFORM LOADING USING AIR BAG.  
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WALL SPAN (FT.)	6	6
	IMMED. RECOV.	RECOV. AFTER 24HR
SOLID WALL ASSEMBLY (12'7"x7'1"x3")	84.82%	92.55%
FRAMED WALL ASSEMBLY (12'5"x6'6"x3")	87.24%	92.76%

-----  
 AXIAL COMPRESSIVE LOAD (WALL LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS.  
 -----

TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS)	(LBS/FT)	FRAMED (DOORS/WINDOWS) (LBS)	(LBS/FT)
ULTIMATE AXIAL COMPRESSIVE LOAD	29400	2336	45445	3660
ALLOWABLE AXIAL WALL LOAD ***	11760	935	18178	1464

\*\* FOUNDED ON THE ULTIMATE AXIAL COMPRESSIVE LOAD WITH A FACTOR OF SAFETY OF 2.5

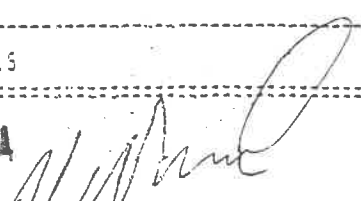
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 RACKING LOAD (WALL RACKING LOAD DATA) : TEST TO A.S.T.M. E72-80 ON 3" PANELS  
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TYPE OF WALL ASSEMBLY	SOLID (NO OPENINGS) (LBS)	(LBS/FT)	FRAMED (DOORS/WINDOWS) (LBS)	(LBS/FT)
ULTIMATE RACKING LOAD * *	2130	170	2360	190
ALLOWABLE AXIAL WALL **	852	68	944	76

\* \* NO CLEAR POINT OF FAILURE, RATHER, PROGRESSIVE DETERIORATION AT PANEL CORNERS AND EDGES DUE TO INDIVIDUAL ROTATION OF PANELS WITH RESPECT TO THEIR CENTERS.

\*\* FOUNDED ON THE ULTIMATE RACKING LOAD WITH A FACTOR OF SAFETY OF 2.5

APR 27 1994





CONFORMANCE SPECIFICATIONS

( HONEYCOMB ROOF PANELS )

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF HONEYCOMB PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;  
ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.

CORE - 99L8. KRAFT PAPER; 3/4" CELL SIZE; 11% RESIN IMPREGNATION; DENSITY 1.86 LBS/CU FT.;  
CRUSHING STRENGTH 85 P.S.I.; STRONG PLANE SHEAR 42 P.S.I.; WEAK PLANE SHEAR 23 P.S.I.

FACING AND CORE ADHESIVE - A CONTACT ADHESIVE COMPOSED OF SYNTHETIC RUBBER RESINS AND SOLVENTS THAT MEETS THE DURABILITY AND STRENGTH CRITERIA OF A.S.T.M. C-297, A.S.T.M. D-1780 (MODIFIED), A.S.T.M. D-2918 (MODIFIED).

ATTACHING EXTRUSIONS - A.S.T.M. 5063 T-5 ALLUMINUM ALLOY TENSILE 22,000 P.S.I.; ELONGATION 8%.

TRANSVERSE LOAD (ROOF LOADING DATA) : TEST TO A.S.T.M. E72-80 ON 3" THICK PANELS; TWO POINT LOADING AT QUARTER SPAN

ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH NO H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4013.7	147.2	3907.2	119.4	3544.2	92.8
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	-	-	2910.0	88.9	3003.3	78.7

APR 27 1994





CONFORMANCE SPECIFICATIONS

( POLYSTYRENE ROOF PANELS )

GENERAL : CONSTRUCTION DETAILS AND CONFORMANCE SPECIFICATIONS THAT WERE SUBMITTED IN BUILDING OFFICIALS AND CODE ADMINISTRATORS RESEARCH REPORT 85-46 (REVISED TO 82-66) TO BUILDING OFFICIALS AND CODE ADMINISTRATORS INTERNATIONAL, INC., INC., 4051 WEST FLOSSMOOR ROAD, COUNTRY CLUB HILLS, ILLINOIS, 60477-5795.

PHYSICAL PROPERTIES OF POLYSTYRENE PANELING AND ATTACHING EXTRUSIONS :

FACING - A.S.T.M. 3004 H154 ALLUMINUM ALLOY; SIZE 0.024"x37.1875"; YIELD STRENGTH 33,400 P.S.I.;  
ULTIMATE STRENGTH 34,600 P.S.I.; ELONGATION 1% TO 3.1%.

CORE - ICA-LITE BRAND EXPANDED POLYSTYRENE; RIGID CLOSED CELL; SIZE 2 15/16"x35 3/8"; FT.;  
COMPRESSIVE STRENGTH (10% DEFORMATION) 15-21 P.S.I.; FLEXURAL STRENGTH 40-50 P.S.I.; TENSILE STRENGTH 18-22 P.S.I.;  
SHEAR STRENGTH 26-32 P.S.I.; SHEAR MODULUS 460-500 P.S.I.; ELASTIC MODULUS 320-360 P.S.I.

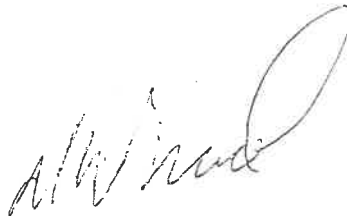
FACING AND CORE ADHESIVE - A CONTACT ADHESIVE COMPOSED OF SYNTHETIC RUBBER RESINS AND SOLVENTS THAT MEETS THE DURABILITY AND STRENGTH CRITERIA OF A.S.T.M. C-297, A.S.T.M. D-1780 (MODIFIED), A.S.T.M. D-2918 (MODIFIED).

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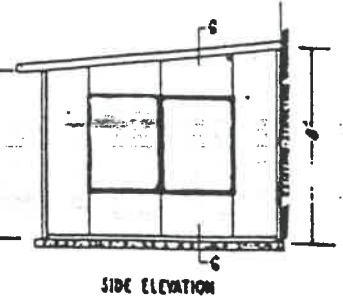
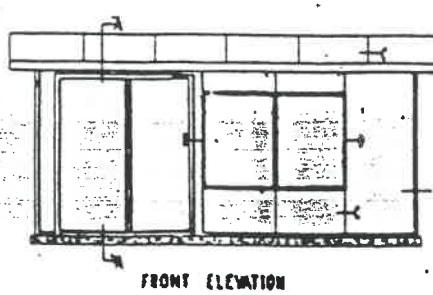
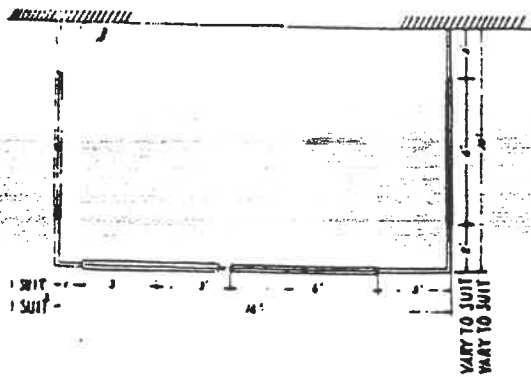
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ROOF SPAN (FT.)	10		12		14	
ROOF PANELS WITH H-STIFFENERS	LBS	PSF	LBS	PSF	LBS	PSF
ULTIMATE ROOF LOAD	4158.0	152.5	3389.1	103.6	2123.3	55.6

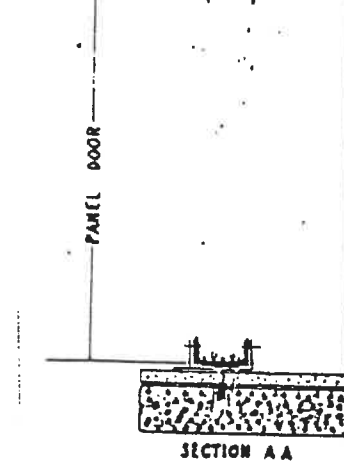
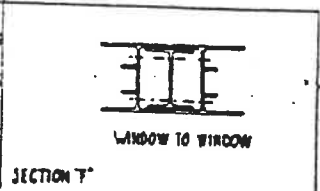
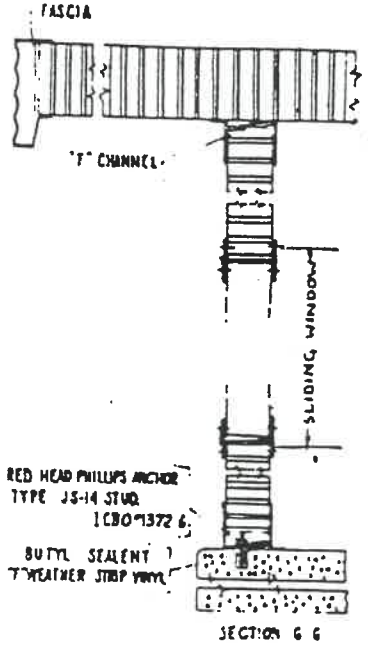
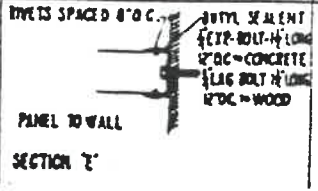
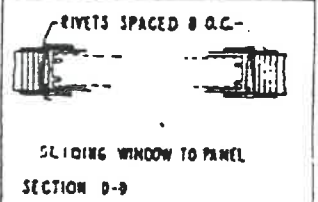
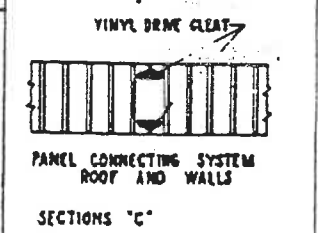
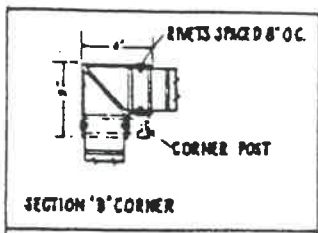
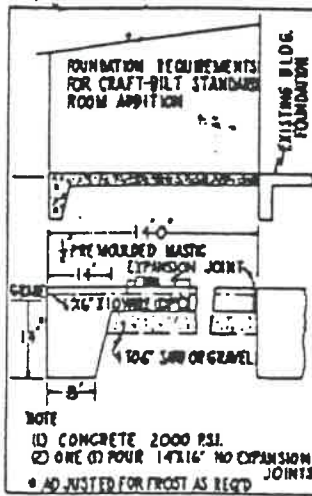
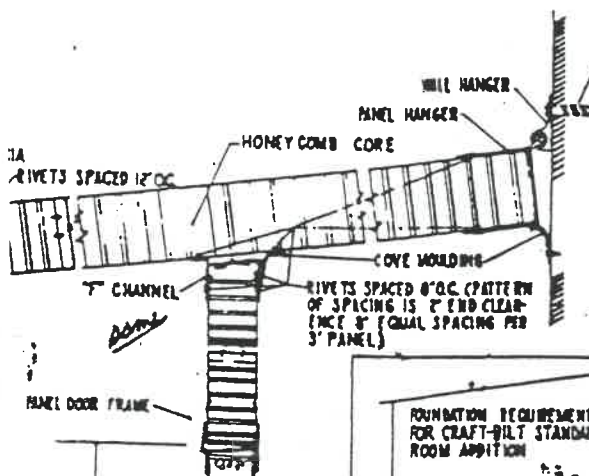
APR 27 1994







2 1/2" RED HEAD PHILLIPS ANCHOR  
 TYPE JS-14 STUD TO CONCRETE ICBO 1372.6  
 LAG BOLT 2" LONG TO EXISTING STUDS  
 IN WOOD CONSTRUCTION



APR 27 1994

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