

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

Permit No. 01603 Issued 8-17-88
date
 Job Location 620 Rohm Drive
address
 Lot 91 Anthony Wayne Acres 5th Ad
sub-div or legal discript
 Issued By Eldon Huber
building official
 Owner William Wright
name tel.
 Address 525 Rohm Drive
 Agent Siebenaler Cons. 636-3173
builder-eng.-etc. tel.
 Address R 1 06559 Rt. 34
Edon, Ohio 43518
 Description of Use Residence

Residential 1
no. dwelling units
 Commercial _____ Industrial _____
 New Add'n. _____ Alter _____ Remodel _____
 Mixed Occupancy _____
 Change of Occupancy _____
 Estimated Cost \$ 102,550.00
 Plumbing 7,600.00
 Heating 7,800.00
 Electrical 7,800.00

ZONING INFORMATION

district <u>S</u>	lot dimensions <u>162.41' x 172.02'</u>	area <u>27,864 S.F.</u>	front yd <u>40'</u>	side yds <u>1-23' E-20'</u>	rear yd <u>90' ±</u>
max hgt <u>35'</u>	no pkg spaces <u>2-MIN</u>	no ldg spaces	max cover <u>30%</u>	petition or appeal req'd	date appr

FEES	BASE	PLUS	TOTAL
<input checked="" type="checkbox"/> BUILDING	9.00	230.40	239.40
<input checked="" type="checkbox"/> ELECTRICAL	15.00	90.00	105.00
<input checked="" type="checkbox"/> PLUMBING	9.00	60.00	69.00
<input checked="" type="checkbox"/> MECHANICAL	18.00	32.00	50.00
<input type="checkbox"/> DEMOLITION			
<input checked="" type="checkbox"/> ZONING	5.00		5.00
<input type="checkbox"/> SIGN			
<input checked="" type="checkbox"/> WATER TAP	375.00		375.00
Inspection fee	60.00		60.00
<input checked="" type="checkbox"/> SEWER TAP			
<input checked="" type="checkbox"/> temp water	5.00		5.00
<input checked="" type="checkbox"/> TEMP. ELECT.	10.00		10.00
ADDITIONAL PLAN REVIEW	Struct. <u>2</u> prints hrs		<u>2.00</u>
	Elect. <u>2</u> copies hrs		<u>.50</u>
TOTAL FEES			920.90
LESS MIN. FEES PAID			_____
BALANCE DUE			_____

WORK INFORMATION: 76' 10" x 36' 10" Basement 2,238 S.F.
26' 4" x 24' 8" Garage 650 S.F.
 Size: Length 76' Width 54' Stories 1 Ground Floor Area 2,402 S.F.
 Height 12' Building Volume (for demo. permit) _____ cu. ft.
 Electrical: 200 amp underground service & 30 circuits
brief description
 Plumbing: 2½ bath, kitchen, laundry, 2 laund. sinks req. in for basement bath.
brief description
 Mechanical: 60,000 B.T.U. forced air natural gas fired furnace & 25 hot air runs.
brief description
 Sign: N.A. Dimensions _____ Sign Area _____
type
 Additional Information: New residence see plan correction sheet.

Date 8/12/88 Applicant Signature [Signature] **PAID**
owner-agent **AUG 12 1988**

INSPECTION RECORD

	UNDERGROUND			ROUGH-IN						FINAL			
	Type	Date	By	Type	Date	By	Type	Date	By	Type	Date	By	
PLUMBING	Building Drains			Drainage, Waste & Vent Piping	*9-1	EH	Indirect Waste			Drainage, Waste & Vent Piping	2/13		
	Water Piping									Backflow Prevention	2/13		
	Building Sewer			Water Piping		EH	Condensate Lines			Water Heater	2/13		
	Sewer Connection									FINAL APPROVAL	2/13	EH	
MECHANICAL	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	2/13	EH	
ELECTRICAL	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			
BUILDING	Location, Set-backs, Esmt(s)		EH	Exterior Wall Construction		EH	Roof Covering Roof Drainage		EH	Smoke Detector	*10/12	EH	
	Excavation		EH				Exterior Lath			Demolition (sewer cap)			
	Footings & Reinforcing		EH				<input type="checkbox"/> Interior Lath <input type="checkbox"/> Wallboard						
	Floor Slab		EH	Interior Wall Construction		EH	Fire Wall(s)			Building or Structure	10/12	EH	
	Foundation Walls		EH	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		EH				
	Piles			Floor System(s)		EH				FINAL APPROVAL BLDG. DEPT.	10/12	EH	
				Roof System		EH	Special Insp Reports Rec'd			Certificate of Occupancy Issued	10/12	EH	
ADDITIONAL	INSPECTIONS, CORRECTIONS, ETC.						INSPECTIONS, CORRECTIONS, ETC.						
	* BELOW FIRST FLOOR LIME TESTED 75# 5" AIR						CHECK SMOKE DETECTOR + BACK STOOD						
							* REPLACE BATT, SMOKE DET IN BASEMENT WITH 100 HARD WIRED. VERBAL TO RLC WRIGHT						

RESIDENTIAL PLAN CORRECTION SHEET

CITY OF NAPOLEON
255 West Riverview Ave.
Napoleon, Ohio 43545
419/592-4010

ADDENDUM TO Permit No. 01603 - (1)
Owner WILLIAM ORIENT
Contractor FEREDALER CONST.
Location 620 PAHM DRIVE

Please note the items checked below and incorporate them into your plans as indicated: PERMIT NOT YET ISSUED, CORRECT PLANS AND RE-SUBMIT. PERMIT ISSUED, INCORPORATE ITEMS DURING CONSTRUCTION.

GENERAL		
<input checked="" type="checkbox"/> Provide approved smoke detector(s) as req'd.	Show size of members supporting porch roof.	
<input checked="" type="checkbox"/> Provide 1/2" gypsum wallboard between dwelling and garage, on garage side.	Provide double top plate for all bearing partitions and exterior walls.	
<input checked="" type="checkbox"/> Provide min. 1 3/8" solid wood door from garage to dwelling. (or equal)	Provide design data for prefab wood truss.	
Submit fully dimensioned plot plan.	Ceiling joists undersized in _____	
Provide min. of 1-3'0" x 6'8" exit door.	Roof rafters undersized in _____	
<input checked="" type="checkbox"/> Provide min. 22" x 30" attic access opening. **	PLUMBING AND MECHANICAL	
Provide min. 18" x 24" crawl space access opening.	<input checked="" type="checkbox"/> Terminate all exhaust systems to outside air.	
<input checked="" type="checkbox"/> Provide approved sheathing or flashing behind masonry veneer.	<input checked="" type="checkbox"/> Insulate ducts in unheated areas.	
Provide min. 15# underlayment on roof.	<input checked="" type="checkbox"/> Provide backflow prevention device on all hose bibs.	
Provide adequate fireplace hearth.	<input checked="" type="checkbox"/> Terminate pressure and temperature relief valve drain in an approved manner.	
Install factory built fireplaces/stoves according to manufacturers instructions.	Provide dishwasher drain with approved air gap device.	
Terminate chimney 2' above roof or 2' above highest point of building within 10' of chimney.	METAL VENEERS	
LIGHT AND VENTILATION		Contact City Utilities Dept. to remove conductors and/or meter.
<input checked="" type="checkbox"/> Provide mechanical exhaust or window in bathroom		Provide approved system of grounding and bonding.
<input checked="" type="checkbox"/> Provide min. <u>1075</u> Sq. In. net free area attic ventilation.	ELECTRICAL	
Provide min. _____ Sq. In. net free area crawl space ventilation.	<input checked="" type="checkbox"/> Show location of service entrance panel and service equipment panel.	
FOUNDATION		<input checked="" type="checkbox"/> G. F. C. I. req'd. on temporary electric.
Min. depth of foundation below finished grade is 32".	<input checked="" type="checkbox"/> Outdoor, bathroom and garage receptacles shall be protected by G. F. C. I.	
Min. size of footer _____" x _____"	<input checked="" type="checkbox"/> Maximum number of receptacles permitted on a G. F. C. I. circuit shall be 10 for 20 A. circuits and 7 for 15A. circuits.	
<input checked="" type="checkbox"/> Provide anchor bolts, 1/2" @ 6' o.c. 1' from each corner. Embedded 7" in concrete and 15" in masonry.	<input checked="" type="checkbox"/> Refrigerators, microwaves, washers, disposal, furnace and air conditioners shall be on separate circuits.	
Show size of basement columns.	INSPECTIONS	
FRAMING		The following indicated inspections are required. The owner or his agent shall contact the City Building Dept. at least 24 hrs prior to the time the inspection is to be made.
Show size of wood girder in _____	<input checked="" type="checkbox"/> Footers and Setbacks.	<input checked="" type="checkbox"/> Building sewer.
Provide design data for structural member in _____	<input checked="" type="checkbox"/> Foundation.	<input checked="" type="checkbox"/> HVAC rough-in.
Floor joists undersized in _____	<input checked="" type="checkbox"/> Plumbing rough-in.	<input checked="" type="checkbox"/> Final Building other,
Provide double joists under parallel bearing partitions.	<input checked="" type="checkbox"/> Plumbing final.	
<input checked="" type="checkbox"/> Provide 1" x 4" let in corner bracing, approved sheathing, or equal.	<input checked="" type="checkbox"/> Electrical service.	<input checked="" type="checkbox"/> <u>BOULDER FRAMING</u>
Show size of headers for openings over 4' wide _____	<input checked="" type="checkbox"/> Electrical rough-in.	
	<input checked="" type="checkbox"/> Electrical final	

Additional Corrections. * 2-SMOKE DETECTORS REQ. 1- FIRST FLOOR BEDROOM AREA + 1- BASEMENT PROVIDE SOLID WOOD BLOCKING UN. JOISTS OVER BEARING POINTS (***) ATTIC ACCESS TO BE 1-RH RATED IF LOCATED IN THE GARAGE

The approval of plans and specifications does not permit the violation of any section of the Building Code or other City Ordinance. This addendum is attached to Permit No. 01603 and made a part thereof. DATE APPROVED OR DISAPPROVED 8-10-88 Checked by ELOON HUBER Plan Examiner.

DATE RECHECKED AND APPROVED _____

Checked by _____

ADDENDUM NO. 2

Permit No. 01603

ITEM #1 STAIRWAYS

Max. R1	8 $\frac{1}{4}$ "
Min. TR	9"
Min. ceiling ht.	6'8"
Hand rail ht.	2'6" to 2'10"
Min. 3 - stringers	

PERMIT

CITY OF NAPOLEON - BUILDING DEPARTMENT

01603 255 West Riverview Avenue, Napoleon, Ohio 43545 - 419-592-4010

Permit No. Issued 8-12-88
date
 Job Location 620 ROHM DRIVE
address
 Lot 91 ANTHONY WAYNE ACRES 5TH 800
sub-div or legal discript
 Issued By FH
building official
 Owner WILLIAM WRIGHT
name tel
 Address 525 ROHM DRIVE
 Agent SIEBENALER CONS. 636-7173
builder-eng -etc tel
 Address R1 06559 RT34
EDDUN OHIO 43518
 Description of Use RESIDENCE

Residential 1 no dwelling units
 Commercial Industrial
 New X Add'n. Alter Remodel
 Mixed Occupancy
 Change of Occupancy

Estimated Cost \$ 102,550.00
PLUMBING 7600.00
HEATING 2800.00
ELECTRICAL 2800.00
ZONING INFORMATION

FEE	BASE	PLUS	TOTAL
<input checked="" type="checkbox"/> BUILDING	9.00	230.46	239.46
<input checked="" type="checkbox"/> ELECTRICAL	15.00	90.00	105.00
<input checked="" type="checkbox"/> PLUMBING	9.00	60.00	69.00
<input checked="" type="checkbox"/> MECHANICAL	18.00	32.00	50.00
<input type="checkbox"/> DEMOLITION			
<input checked="" type="checkbox"/> ZONING	5.00	1.00	5.00
<input type="checkbox"/> SIGN			
XWATER TAP	375.00	1.00	375.00
XSEWER TAP	60.00	1.00	60.00
XTEMP WATER	5.00	1.00	5.00
XTEMP. ELECT.	10.00	1.00	10.00
ADDITIONAL PLAN REVIEW	Struct. <u>2 PRINTS</u> hrs		2.00
	Elect. <u>2-COPYS</u> hrs		1.50
TOTAL FEES.....			1000.00
LESS MIN. FEES PAID			<u>920.90</u>
BALANCE DUE.....			

district	lot dimensions	area	front yd	side yds	rear yd
<u>5</u>					
max hgt	no pkg spaces	no ldg spaces	max cover	petition or appeal req'd	date appr

WORK INFORMATION: 76'-10" x 36'-10"
 Size: Length 76' Width 34' Stories 1
 Height 12' Building Volume (for demo. permit) cu. ft.
 BASEMENT 238 S.F.
 GARAGE 650 S.F.
 Ground Floor Area 2902 S.F.

Electrical: 200 AMP UNDERGROUND SERVICE + 30 CIRCUITS
brief description
 Plumbing: 2 1/2 BATH KITCH 1 LAUNDRY 2 LAUN. SINKS R.G. IN FOR
BASEMENT BATH brief description
 Mechanical: 60,000 B.T.U. FORCED AIR NAT. GAS FIRED FURNACE + 25 HOT AIR BURS
brief description

Sign: NA Dimensions Sign Area
type

Additional Information: NEW RESIDENCE & SER PLAN CORRECTION
SHEET

Date Applicant Signature owner-agent

CITY OF NAPOLEON
BUILDING INSPECTION DEPARTMENT
APPLICATION FOR BUILDING PERMIT
(Please print or type).

The undersigned hereby makes application for construction, installation, or alteration work as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Building Codes.

Location of project Lot 91, Anthony Wayne Acres Sub. Cost of project \$102,550

Owner's Name William & Sandra Wright Address 525 Rohm Drive

Contractor SIEBENALER CONSTRUCTION Telephone No. 419/636-3173

Address RI 06559 RT 34

Lot Information: (Not required for siding job)

Lot No. 91 Subdivision ANTHONY WAYNE ACRES 57A ADD

Zoning District S Lot Size 100 ft. X 237 ft. Area _____ sq. ft.

Setbacks: Front 40' Right Side 27'-0" Left Side 20'-0" Rear 100'-0"

Work Information:

Residential Commercial _____ Industrial _____

New Construction Addition _____ Remodel _____

Accessory Building _____ Siding BRICK & WOOD
(Specific Type)

Brief Description of Work:-----

Size: Length 76'-8" Width 64'-8" No. of Stories one

Area: 1st Floor _____ sq. ft. Basement _____ sq. ft.

2nd Floor _____ sq. ft. Accessory Bldg. _____ sq. ft.

3rd Floor _____ sq. ft. Other _____ sq. ft.

Additional Information: _____

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF PLANS INCLUDING: ELEVATIONS, FLOOR PLANS, CROSS SECTIONS AND PLOT PLAN. IF ADDITION OR REMODELING, SHOW ALL EXISTING STRUCTURES AND THEIR SIZE AND LOCATION. ALL PLANS SHALL BE DRAWN TO SCALE.

Date August 1, 1988

Applicant's Signature [Signature]

PERMIT NO.

PERMIT FEE \$

BUILDING INSPECTION DEPARTMENT
APPLICATION FOR ELECTRICAL PERMIT
(Please print or type)

The undersigned hereby makes application for installation or replacement of electrical equipment as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Electrical Codes.

Owner's Name WILLIAM H & SANDRA WRIGHT Address 525 ROYAL DR, NAPOLEON

Electrical Contractor JOHN SPENCER & SONS Telephone No. 599-1846

Address PO BOX 545 WAP CO

General Contractor _____ Telephone No. _____

Address _____

Location of Project LOT 91 ANTHONY WAYNE ACRES Cost of Project 7000.00

Work Information:

Residential 1 Commercial _____ Industrial _____

No. Units

New Service Change _____ Rewiring _____ Additional Wiring _____

Brief Description of Work: _____

Size of proposed service entrance 200 Number of new circuits 30

Type of proposed service entrance _____ Underground Overhead _____

Require Temporary Electric YES (Yes or No)

Total Floor Area - Commercial and Industrial only _____ sq. ft.

Additional Information: _____

*Ground fault circuit interrupter protection is required on all 120-volt single phase, 15 and 20 amp. Circuits which are part of a temporary electric service; and also on bathroom, outdoor, and garage receptacles in all dwelling units. Art. 220-8 N.E.C.

Application for permit shall be accompanied by two complete sets of plans including: Electrical layout and riser diagram. (For commercial and industrial work only).

date 8-9-88

Applicant's Signature [Signature]

PERMIT NO. _____
PERMIT FEE \$ _____

BUILDING INSPECTION DEPARTMENT
 APPLICATION FOR PLUMBING PERMIT
 (Please print or type)

VOID SEP 18-88 REOPENED

The undersigned hereby makes application for the installation or replacement of plumbing work as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Plumbing Codes. (1, 2 and 3 family dwelling units only).

Owner's Name WILLIAM H. & SANDRA A. WRIGHT Address 620 ROHM DR NAPOLEON, OH 43545
 Plumbing Contractor VON DEYLEN PLUMBING Telephone No. 592-4756
 Address 116 E. CLINTON - NAPOLEON
 General Contractor _____ Telephone No. _____
 Address _____
 Location of Project 620 ROHM DR (LOT 91 ANTHONY WARDLE ACRES) Cost of Project 7600⁰⁰

Work Information:
 No. of dwelling units _____ New ONE Replacement _____ Addition _____
 Brief description of work: _____

PERMIT NO. _____
 PERMIT FEE \$ _____

Is water tap required YES Size 3/4" Type of Pipe COPPER
 Is sewer tap required YES Size 6" Type of Pipe PVC
 Type of Water Distribution pipe CPVC
 Type of Drainage, Waste and Vent Pipe PVC
 Size of main building drain 4" Size of main vent pipe 3"
 Water closets 3 Bathtubs 2 Shower 1
 No. Trap Size No. Trap Size
 Lavatories 4 1 1/2" Kitchen Sink 1 1 1/2" Disposal 1 1 1/2"
 No. Trap Size No. Trap Size No. Trap Size
 Dishwasher 1 1 1/2" Clothes Washer 1 1 1/2" Other 2 1 1/2"
 No. Trap Size No. Trap Size No. Trap Size

All installations are subject to plumbing tests and/or inspections.

CARAGE FLOOR DR
 COV. PORCH FC. DR.
 LAUN SINK
 LAUN SINK

Date 8/12/88 Applicant's Signature [Signature]

RG. 1A W. CC. 1 IN BATHROOM?
 RG 1A LAUN 1 IN BATHROOM
20
18 TR

CITY OF NAPOLEON
BUILDING INSPECTION DEPARTMENT
APPLICATION FOR HEATING PERMIT
(PLEASE PRINT OR TYPE)

The undersigned hereby makes application for the installation, repla or alteration of a heating system or device as herein specified, agr to do all such work in strict accordance with the City of Napoleon's adopted Mechanical Code for 1, 2 and 3 Family Buildings.

Owner's Name WILLIAM H. & SANDRA WRIGHT Address 620 ROHM DR
NAPOLEON, OH 43545
Contractor's Name DR. DEYLEN PLOBBING Address 116 E. CLINTON
NAPOLEON Tel 592-4756

BUILDING INFORMATION:

Single Family Double Family _____ Multiple _____ New Construction
Addition _____ Remodel _____ Replacement _____ No. of Stories 1

DESCRIPTION OF WORK

Heating System - Warm Air Hot Water _____ Steam _____ Electric
Unit Heaters _____ Unit Gas Heaters _____ Other _____
Type - Gravity _____ Forced Radiant _____
No. of Thermostatical Heating Zone 1
Hot Water - One Pipe _____ Two Pipe _____ Series Loop _____
Electric Heat - No. of Circuits _____ Other _____
Total Heat Loss of Area to be Heated 39,767
Rated Capacity of Furnace/Boiler 60,000 B.T.U.
No. of Furnaces 1 No. of Hot Air Runs 25
No. of Hot Water Radiators _____ Type of Fuel NAT. GAS
Heating Units Located: Crawl Space _____ Floor Level Suspended _____
Roof or Exposed to Outside Air _____ Attic _____ Other _____

APPLICATION FOR PERMIT SHALL BE ACCOMPANIED BY TWO COMPLETE SETS OF P INCLUDING: LOCATION OF FURNACE OR UNIT HEATERS AND SIZE AND LOCATION FEEDER DUCTS AND RETURN AIR DUCTS. ALL PLANS SHALL BE DRAWN TO SCALE

ESTIMATED COST OF COMPLETED PROJECT: 7800⁰⁰
DATE 8/12/88 APPLICANT'S SIGNATURE [Signature]
OWNER-CONTRACTOR-AGEN

AIR COND.

BUILDING INSPECTION DEPARTMENT
 APPLICATION FOR PLUMBING PERMIT
 (Please print or type)

REO(1)R(1)

The undersigned hereby makes application for the installation or replacement of plumbing work as herein specified, agreeing to do all such work in strict accordance with the City of Napoleon's adopted Plumbing Codes. (1, 2 and 3 family dwelling units only).

Owner's Name William Wright Address 620 Rhone Dr Lot #91
 Plumbing Contractor Von Doyle's Plumbing Telephone No. 592-4756
 Address _____
 General Contractor _____ Telephone No. _____
 Address _____
 Location of Project _____ Cost of Project _____

Work Information:
 No. of dwelling units _____ New _____ Replacement _____ Addition _____
 Brief description of work: _____

PERMIT NO. _____
 PERMIT FEE \$ _____

Is water tap required _____ Size 3/4 Type of Pipe CPVC
 Is sewer tap required _____ Size 4 Type of Pipe PVC
 Type of Water Distribution pipe CPVC
 Type of Drainage, Waste and Vent Pipe PVC
 Size of main building drain 4" Size of main vent pipe 4"
 Water closets 4 Bathtubs 2 Shower 1
 No. Trap Size No. Trap Size No. Trap Size
 Lavatories 5 1 1/4 Kitchen Sink 1 1 1/2 Disposal 1 1 1/2
 No. Trap Size No. Trap Size No. Trap Size
 Dishwasher 1 1 1/2 Clothes Washer 1 2" Other 2 1 1/2
 No. Trap Size No. Trap Size No. Trap Size
 F.D. 2 3"

All installations are subject to plumbing tests and/or inspections.

Date 8/18/88 Applicant's Signature Von Doyle's Plumbing
Daniel Wasfall

No. 494

CERTIFICATE OF OCCUPANCY
THE CITY OF NAPOLEON

ENGINEERING DEPARTMENT
DIVISION OF INSPECTION

This is to certify that the Building or Land as herein described complies with all the building and health laws and ordinances and with the provisions of the Zoning Ordinance.

Location of Occupancy 620 Rohm Drive Occupancy 1-Family Residence

Owner of Property William Wright Address 525 Rohm Drive

Issued to Siebenaler Construction Address R1 06559 Rt. 34

Zoning S Bldg. Permit No. Edon, Ohio 43518

Substantial qualifications of occupancy None

This certificate is issued by the City Building Inspector, as provided by law, and is to certify that construction is completed substantially in conformity with the approved plans and permission is hereby granted to occupy such building in compliance with such legal use and occupancy as authorized under the provisions of the ordinances of the City of Napoleon.

Issued this 12th day of October 1989

This is a valuable record for owner or lessee
and should be so preserved. Signed *Allen*
City Building Inspector

City of NAPOLEON, OHIO

255 RIVERVIEW AVENUE - (419) 592-4010
NAPOLEON, OHIO 43545-0151

August 15, 1988



Mayor
Steven Lankenau

Siebenaller Construction
R. 1 06559 Rt. 34
Edon, Ohio 43518

Members of Council
James Hershberger, President
Lawrence Haase
Donald Stevens
Terri A. Williams
John E. Church
Randy J. Bachman

Re: William Wright residence
620 Rohm Drive
Napoleon, Ohio 43545

Dear Sirs:

City Manager
Terry Dunn

I have completed my review of the plans submitted so far and note the following:

Finance Director
Rupert W. Schweinhagen

Item #1 I understand that two of the columns supporting the bedroom end of the house will be eliminated and that a 2 x 6 stud wall will be substituted. (NOTE: use a treated bottom plate for this wall).

Law Director
Michael J. Wesche

Item #2 The lam. beam coat tables I have are for L.R.C. products. If you beams are to be furnished by another manufacturer submit a copy of their load tables to me with the beams you intend to use indilated.

Assistant Law Director
Jeffrey R. Lankenau

The lam. beam over the front porch is 3 1/2" x 12" is under designed as per L.R.C. load tables.

4-2x12s
9'SPARK ONLY →

Item #3 Furnish a 2nd set of drawings for my records.

BEAM INCREASED

Item #4 The basement beam supporting the dining area and kitchen 3 - 2 x 10's (span 9' tributary area 14'7", load 50# P.S.F.) is underdesigned by approx. 12%. Let me know what you want to do to rectify this situation.

- Item #5 Will there be a floor drain in the garage, if so it must drain into the sanitary sewer system. If not, slope the floor to the door.
- Item #6 Will there be a floor drain in the basement, if so it must drain into the sanitary sewer.
- Item #7 The following is understood from our previous conversations.
- a. Framing lumber will be hemfir (north) #2 or better.
 - b. All structural headers will be 2 - 2 x 12's unless noted otherwise on the prints.

As soon as these items are clarified, I will issue your permit, until that time do not proceed beyond completion of the foundation.

Sincerely,



Eldon Huber
Building Inspector

EH:skw

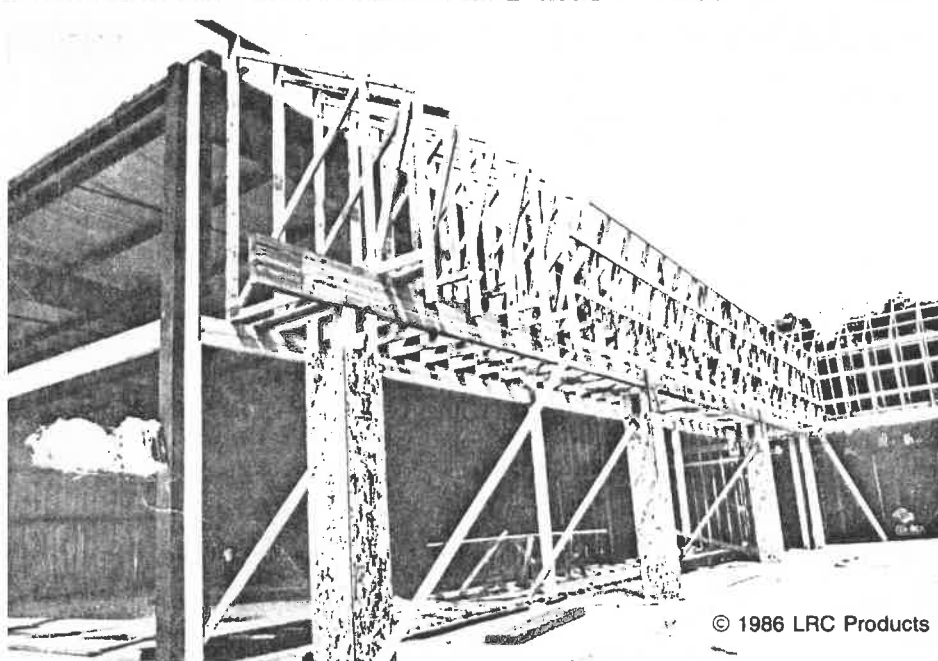
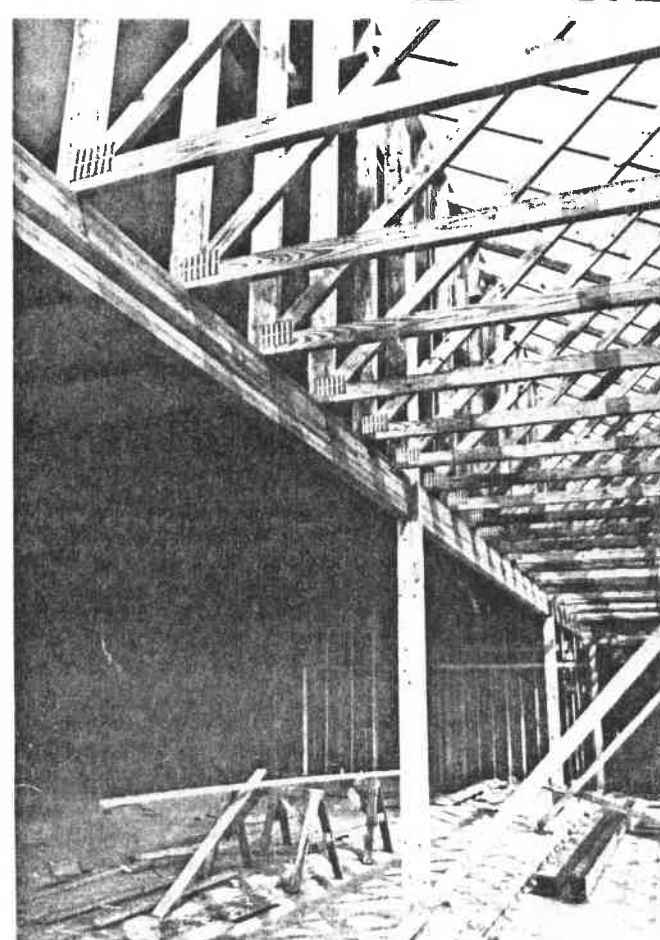
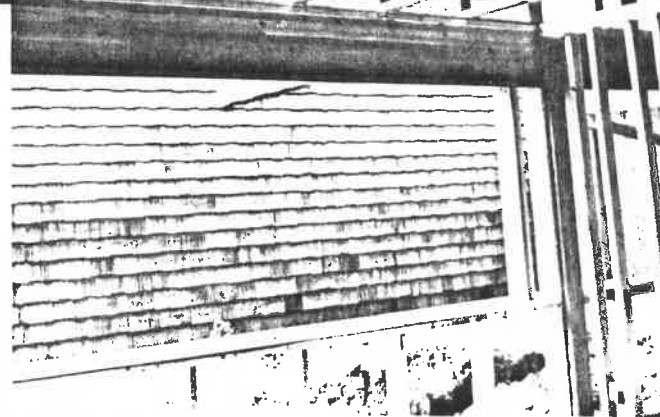
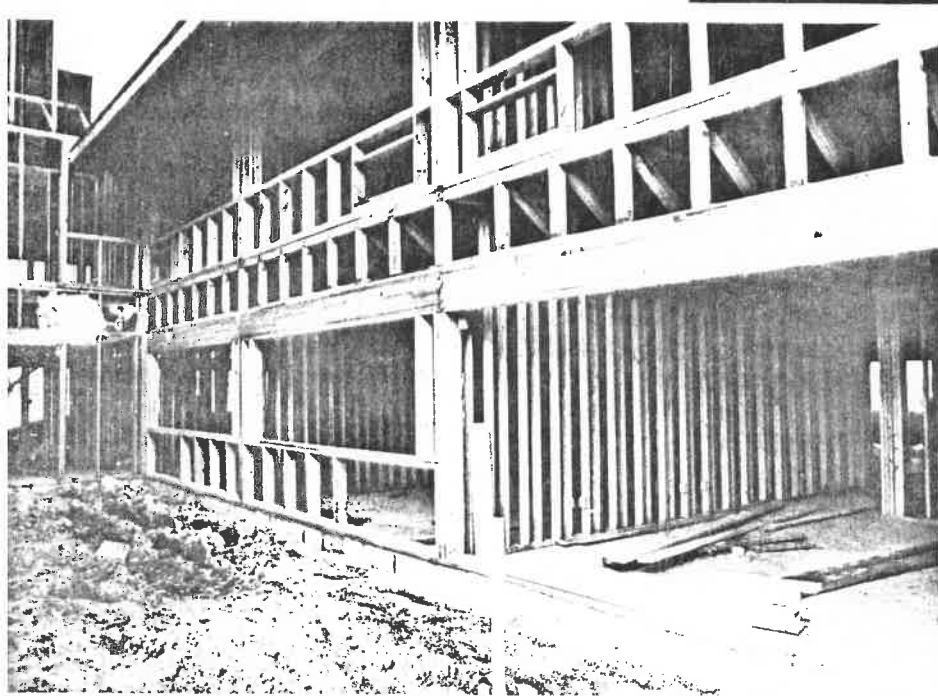
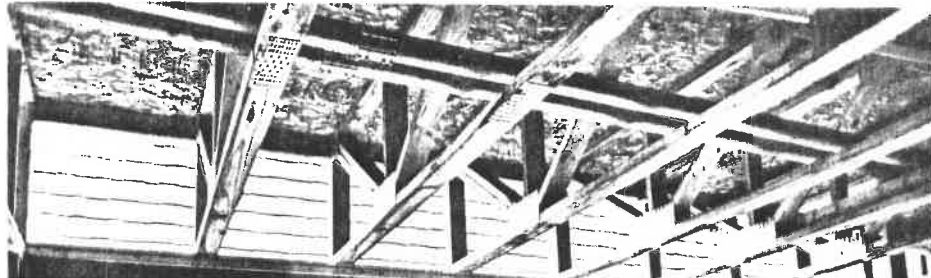
NOTE: ALL QUESTIONS
ANSWERED VERBALLY

LRC Products

Glulam Beams

SPAN TABLES

TECHNICAL
INFORMATION



1

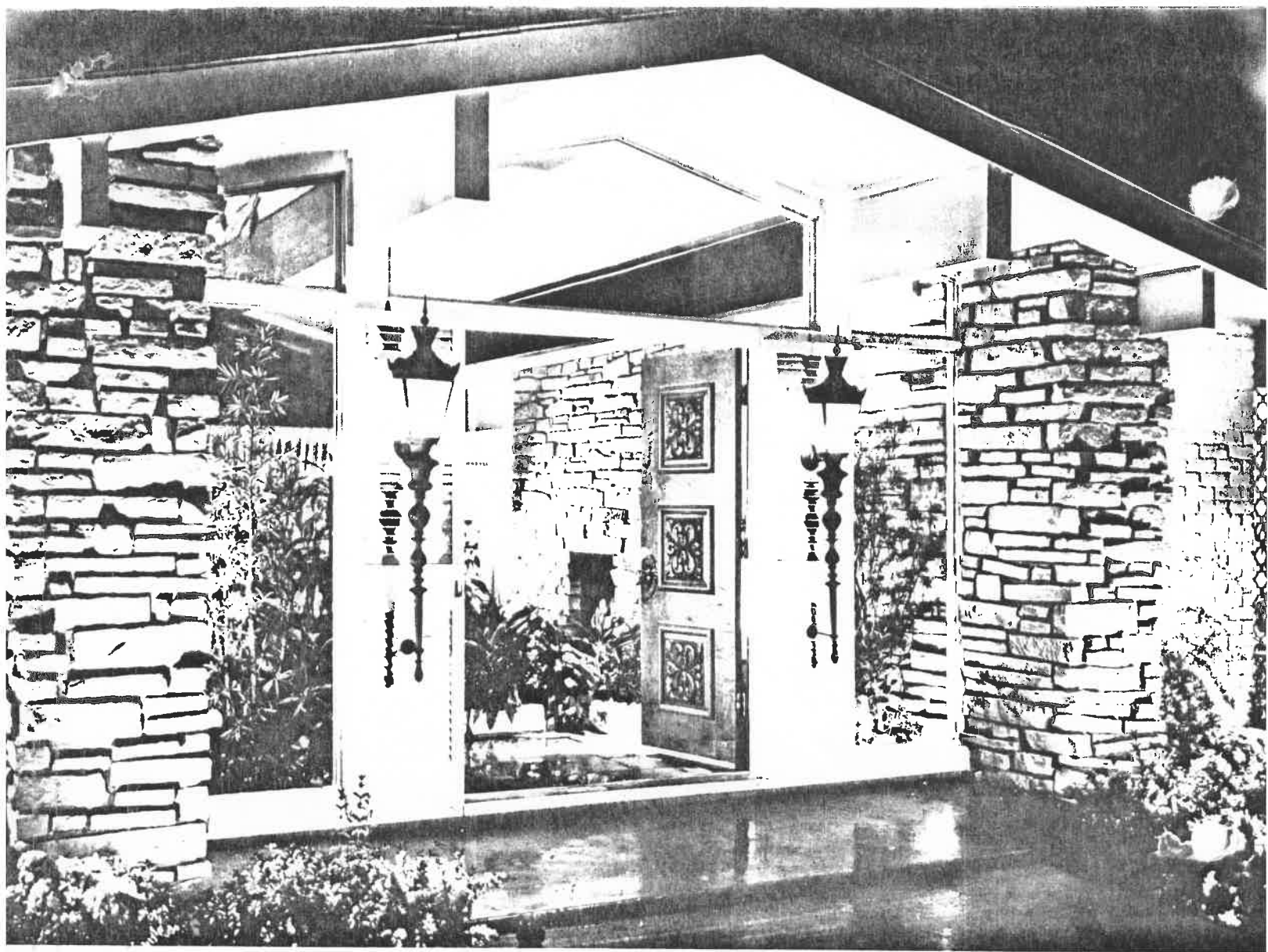


photo courtesy of SCHOLZ HOMES, INC.

APPEARANCE GRADES

INDUSTRIAL GRADE

Industrial (framing) grade glulam beams are used in areas of the structure where appearance is not a primary concern. In most applications the glulam beam is concealed in the wall framing or floor framing. If the glulam beam is going to be wrapped in drywall, cedar or other material, industrial grade is recommended. Industrial grade glulam beams are as strong as architectural grade and cost less.

1. Laminations may possess the natural growth characteristics of the lumber grade.
2. Soffit and face boards shall be free of loose knots and open knot holes.
3. Inserts or wood fillers are not required.
4. Members shall be surfaced two sides only, permitting an occasional miss, low laminations and wane edge lumber.
5. Oversize beams such as 3 1/2" will have more skip dressing, but will be suitable for framing members.
6. Members are not individually wrapped unless specified.

ARCHITECTURAL GRADE

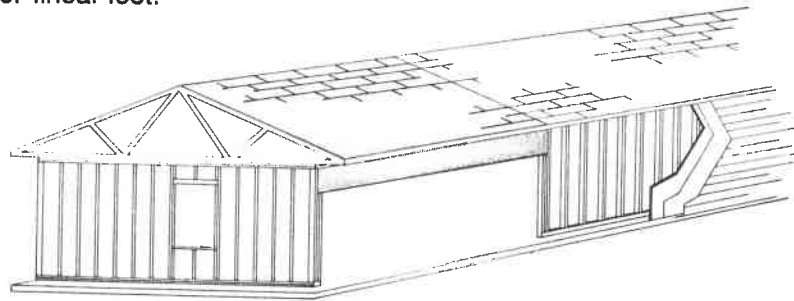
Architectural (finish) grade glulam beams are used in areas of the structure where appearance is an important requirement. Architectural grade glulam beams are used for ridge beams, rafters, roof beams and floor beams.

1. Laminations may possess the natural growth characteristics of the lumber grade.
2. In exposed surfaces, knot holes and other voids measuring over 3/4 inch shall be filled by the fabricator with wood-tone colored filler or with clear wood inserts. When inserts are used, they shall be selected for similarity of the grain and color of the wood.
3. The wide face of the laminations (face board) exposed to view shall be free of loose knots. Open knot holes shall be filled.
4. The corners of the face board shall be eased.
5. The exposed three sides of the glulam beam shall be surfaced smooth. Misses are not permitted.
6. Members are individually wrapped with water resistant paper or opaque polyethylene.
7. Members have one coat of surface sealer to increase resistance to soiling, control grain raising, minimize checking and serve as a moisture retardant until a final finish is applied at the jobsite.

HOW TO DETERMINE THE APPLIED LOAD IN POUNDS PER LINEAL FOOT ON GLULAM BEAMS

When the live load, as determined by the governing building code, the dead load, the beam span, and beam spacing are known, the applied load in pounds per lineal foot can be calculated. Once the applied load in pounds per lineal foot is known, the GLULAM beam can be properly sized from the simple span uniform load beam and header tables.

A simple span beam is a beam that is supported at each end only. A uniform load is a force of equal magnitude along the full length of the beam. The following examples are simple spans and uniform loads. Use these examples to determine the applied load in pounds per lineal foot.



EXAMPLE #1

EXTERIOR WALL HEADER SINGLE STORY STRUCTURE

Roof live load (LL)	=	30 pounds per square foot (psf)
Roof dead load (DL)	=	17# psf
Total load (TL)	=	47# psf

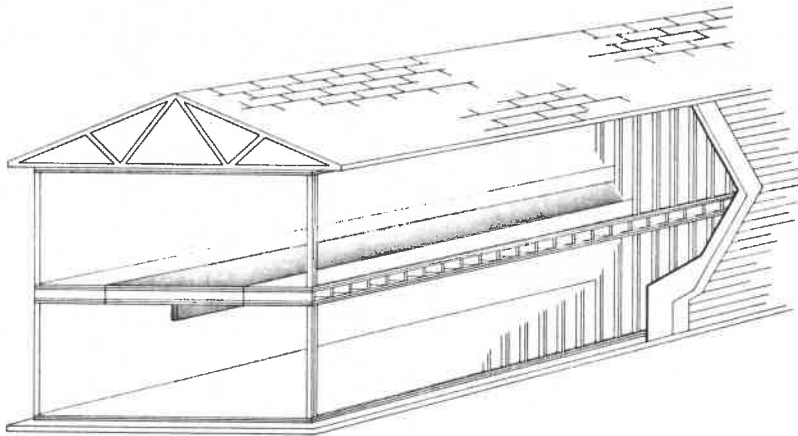
The shaded roof area indicates area of load on the header. This is the area from the center line of the roof truss to the tip of the overhang. The area of load is 15 ft. The span of the header is 12 ft.

Area of load x total load psf = load per lineal ft. (plf)

$$15 \text{ ft.} \times 47\# = 705\# \text{ plf}$$

USE THE 3 1/2" WIDE ROOF BEAM CHART ON PAGE 6.

First find the span of 12 ft. Then go to the right until you find a value plf equal to or greater than 705# plf. In this example a 3 1/2 x 10 1/2" GLULAM roof beam has a capacity of 772# plf for a 12 ft. span.



EXAMPLE #2

FLOOR BEAM WITHOUT ROOF LOAD

Floor live load (LL)	=	40 pounds per square foot (psf)
Floor dead load (DL)	=	15# psf
Total floor load	=	55# psf

The shaded floor area indicates the area of load in the floor beam. The floor area of load is 1/2 the floor joist length on each side of the beam. The floor joists are 14 ft. long on each side of the beam. The area of load is 7 ft. on each side of the beam. The total area of load is 14 ft. The span of the floor beam is 12 ft.

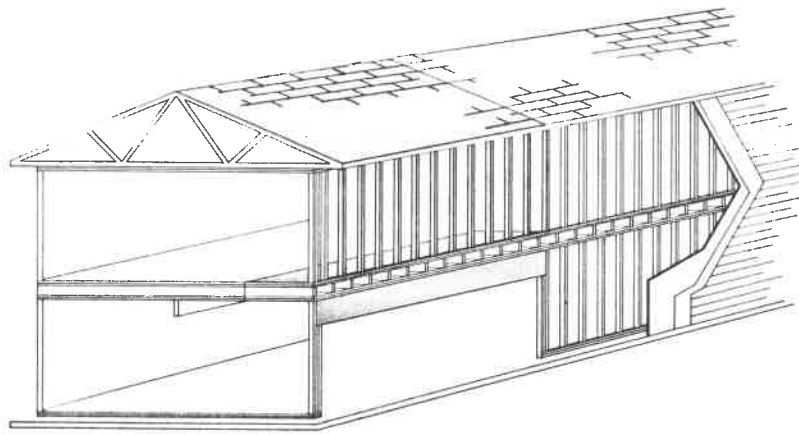
Floor area of load x total load psf = load per lineal ft. (plf)

$$14' \times 55\# \text{ psf} = 770\# \text{ plf}$$

USE THE 5 1/8" WIDE FLOOR BEAM CHART ON PAGE 9.

First find the span of 12 ft. Then go to the right until you find a value plf equal to or greater than 770# plf. In this example a 5 1/8" x 12" glulam floor beam has a capacity of 1124# plf for a 12 ft. span.

SPECIAL NOTE: The beam tables contained in this catalogue are for simple spans. For a multiple span condition special engineering is required. A multiple span continuous basement beam size chart is on page 11.



EXAMPLE #3

EXTERIOR WALL HEADER - TWO STORY STRUCTURE

Roof live load (LL) = 30 pounds per square foot (psf)
 Roof dead load (DL) = 17# psf
 Total roof load = 47# psf

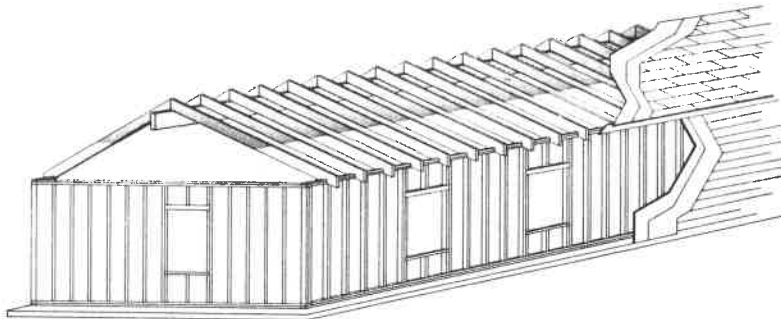
Exterior wall weight = 80# per lineal foot (plf)
 Floor live load (LL) = 40# psf
 Floor dead load (DL) = 15# psf
 Total floor load = 55# psf

The shaded roof, wall and floor areas indicate areas of load on the header. The roof area is from the center line of the roof truss to the tip of the overhang. This area of load is 15 ft. The wall area is the wall above the beam. The floor area is 1/2 the floor joist length of 14' or 7 ft. of loaded area. The span of the header is 12 ft.

Roof area of load x total load psf = load per lineal ft. (plf)	15' x 47# psf =	705# plf
Wall area		= 80# plf
Floor area of load x total load psf = load plf	7' x 55# psf =	385# plf
Total load plf		= 1170# plf, roof, wall, floor

DUE TO COMBINATION ROOF AND FLOOR LOADS, USE THE FLOOR BEAM SIZE CHARTS FOR 3 1/2" BEAMS ON PAGE 8, AND 5 1/8" BEAMS ON PAGE 9.

First find the span of 12 ft. Then go to the right until you find a value plf equal to or greater than 1170# plf. In this example a 3 1/2" x 15" glulam floor beam has a capacity of 1203# plf for a 12 ft. span. A 5 1/8" x 13 1/2" glulam floor beam has a capacity of 1545# plf for a 12 ft. span.



EXAMPLE #4

RIDGE BEAM

Roof live load (LL) = 30 pounds per square foot (psf)
 Roof dead load (DL) = 15# psf
 Total roof load = 45# psf

The shaded roof area indicates the area of load on the ridge beam. The roof area of load is 1/2 the rafter length on each side of the ridge beam. The rafters are 14 ft. long on each side of the beam. The area of load is 14 ft. The span of the ridge beam is 20 ft.

Roof area of load x total load psf = load per lineal ft. (plf)	14 x 45# psf =	630# plf
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USE THE 5 1/8" WIDE ROOF BEAM CHART ON PAGE 7.

First find the span of 20 ft. Then go to the right until you find a value plf equal to or greater than 630# plf. In this example a 5 1/8 x 15" glulam roof beam has a capacity of 720# plf for a 20 ft. span.

ROOF BEAM SPAN TABLES

3 1/8" ARCHITECTURAL GRADE

SPAN FEET	BEAM DEPTHS							
	6"	7 1/2"	9"	10 1/2"	12"	13 1/2"	15"	16 1/2"
6	945 S	1244 S	1576 S	1947 S	2365 S	2839 S	3380 S	4006 S
7	651*	1026 S	1288 S	1574 S	1890 S	2239 S	2626 S	3060 S
8	434*	852*	1088 S	1321 S	1573 S	1847 S	2147 S	2474 S
9	303*	596*	942 S	1138 S	1347 S	1572 S	1814 S	2076 S
10	220*	433*	752*	999 S	1177 S	1368 S	1571 S	1788 S
11	164*	324*	563*	877 B	1045 S	1210 S	1385 S	1570 S
12	125*	248*	432*	689*	940 S	1085 S	1238 S	1399 S
13	97*	194*	338*	540*	806 B	983 S	1118 S	1261 S
14	77*	154*	269*	431*	646*	868 B	1020 S	1147 S
15	61*	124*	217*	348*	523*	748*	922 B	1053 S
16	50*	101*	178*	286*	429*	614*	809 B	970 B
17	41*	83*	147*	237*	356*	510*	703*	858 B
18		69*	123*	198*	299*	428*	590*	764 B
19		58*	103*	167*	252*	362*	500*	669*
20		48*	87*	142*	215*	309*	427*	571*
21		41*	74*	121*	184*	265*	367*	492*
22			64*	104*	159*	229*	318*	426*
23			55*	90*	138*	199*	276*	371*
24			47*	78*	120*	174*	242*	325*
25			41*	68*	105*	153*	213*	286*
26			36*	60*	92*	135*	188*	253*
27				52*	81*	119*	166*	224*
28				46*	72*	105*	148*	200*
29				41*	64*	94*	132*	178*
30				36*	57*	84*	118*	160*

3 1/2" INDUSTRIAL GRADE

SPAN FEET	BEAM DEPTHS							
	6"	7 1/2"	9"	10 1/2"	12"	13 1/2"	15"	16 1/2"
6	1058 S	1393 S	1765 S	2181 S	2649 S	3180 S	3787 S	4487 S
7	729*	1150 S	1443 S	1764 S	2117 S	2508 S	2942 S	3428 S
8	487*	954*	1220 S	1480 S	1763 S	2070 S	2405 S	2772 S
9	340*	668*	1056 S	1275 S	1509 S	1761 S	2033 S	2326 S
10	246*	485*	842*	1119 S	1319 S	1533 S	1760 S	2004 S
11	184*	363*	631*	983 B	1172 S	1356 S	1552 S	1759 S
12	140*	278*	484*	772*	1053 S	1216 S	1387 S	1567 S
13	109*	217*	379*	605*	904 B	1102 S	1254 S	1413 S
14	86*	173*	302*	483*	724*	973 B	1143 S	1286 S
15	69*	139*	244*	391*	587*	839*	1034 B	1180 S
16	56*	113*	200*	320*	482*	689*	907 B	1087 B
17	46*	93*	165*	266*	400*	572*	788*	962 B
18		78*	138*	222*	335*	480*	662*	856 B
19		65*	116*	188*	283*	407*	561*	750*
20		55*	98*	159*	241*	347*	479*	641*
21		46*	84*	136*	207*	298*	412*	552*
22			72*	117*	179*	258*	357*	478*
23			62*	102*	155*	224*	310*	416*
24			53*	88*	135*	196*	272*	365*
25			46*	77*	118*	172*	239*	321*
26			40*	68*	104*	151*	211*	284*
27				59*	92*	134*	187*	252*
28				52*	81*	119*	166*	224*
29				46*	72*	106*	148*	200*
30				41*	64*	94*	133*	180*

ROOF BEAM SPAN TABLE

5 1/8" ARCHITECTURAL GRADE and 5 1/8" INDUSTRIAL GRADE

SPAN FEET	BEAM DEPTHS									
	9"	10½"	12"	13½"	15"	16½"	18"	19½"	21"	22½"
6	2585 S	3195 S	3880 S	4657 S	5546 S	6571 S	7768 S	9183 S	10880 S	12956 S
7	2113 S	2584 S	3101 S	3673 S	4309 S	5020 S	5820 S	6728 S	7764 S	8961 S
8	1786 S	2168 S	2582 S	3032 S	3522 S	4060 S	4652 S	5306 S	6033 S	6846 S
9	1547 S	1867 S	2211 S	2580 S	2978 S	3407 S	3873 S	4379 S	4932 S	5537 S
10	1234*	1639 S	1933 S	2245 S	2578 S	2935 S	3317 S	3727 S	4169 S	4647 S
11	924*	1440 B	1716 S	1987 S	2273 S	2576 S	2899 S	3243 S	3610 S	4002 S
12	709*	1131*	1543 S	1781 S	2032 S	2296 S	2575 S	2870 S	3182 S	3514 S
13	556*	887*	1324 B	1614 S	1836 S	2070 S	2315 S	2573 S	2844 S	3131 S
14	443*	708*	1061*	1426 B	1675 S	1884 S	2103 S	2331 S	2571 S	2823 S
15	358*	573*	860*	1229*	1515 B	1729 S	1925 S	2131 S	2345 S	2569 S
16	293*	470*	706*	1010*	1329 B	1593 B	1776 S	1962 S	2156 S	2357 S
17	242*	389*	586*	839*	1155*	1409 B	1647 S	1817 S	1994 S	2177 S
18	202*	326*	491*	704*	970*	1254 B	1480 B	1693 S	1855 S	2023 S
19	170*	275*	416*	596*	822*	1099*	1326 B	1545 B	1733 S	1888 S
20	144*	234*	354*	509*	702*	939*	1195 B	1392 B	1603 B	1770 S
21	123*	200*	304*	437*	604*	808*	1054*	1260 B	1451 B	1655 B
22	106*	173*	262*	378*	523*	700*	914*	1146 B	1320 B	1506 B
23	91*	149*	228*	329*	455*	610*	797*	1017*	1206 B	1375 B
24	79*	130*	199*	287*	399*	535*	699*	893*	1105 B	1261 B
25	68*	114*	174*	252*	351*	471*	616*	787*	987*	1160 B
26	60*	99*	153*	223*	310*	416*	545*	697*	875*	1070 B
27		87*	135*	197*	274*	370*	484*	620*	778*	961*
28		77*	120*	175*	244*	329*	432*	553*	695*	859*
29		68*	106*	156*	218*	294*	386*	496*	623*	770*
30		60*	94*	139*	195*	264*	347*	445*	560*	693*
31			84*	124*	175*	237*	312*	401*	505*	626*
32			75*	112*	158*	214*	282*	363*	457*	566*
33			67*	100*	142*	193*	255*	329*	415*	514*
34			60*	90*	128*	175*	231*	298*	377*	468*
35			54*	81*	116*	159*	210*	272*	343*	426*
36				73*	105*	144*	192*	248*	313*	390*
37				66*	95*	131*	175*	226*	287*	357*
38				60*	87*	120*	160*	207*	263*	327*
39				54*	79*	109*	146*	190*	241*	301*
40					72*	100*	134*	174*	222*	277*
41					65*	91*	123*	160*	204*	255*
42					59*	83*	112*	147*	188*	235*
43					54*	76*	103*	136*	173*	217*
44						70*	95*	125*	160*	201*
45						64*	87*	115*	148*	186*

ROOF BEAM TABLE SPECIFICATIONS

These tables apply for uniform loads and simple spans which are laterally supported. The ends of beams must be restrained against rotation. For conditions other than simple spans and uniform loading, special engineering is required. Roofs should have a minimum slope of 1/4" per foot to avoid ponding of water.

DESIGN VALUES

- a. Bending Stress, $F_b = 2400$ psi
- b. Shear Stress, $F_v = 165$ psi
- c. Modulus of Elasticity, $E = 1,800,000$ psi
- * Design values F_b and F_v have been increased 15% for short term duration of loading for roof beams.
- * Design value F_b has been reduced for size factor C_F .
- f. Deflections have been limited to 1/240 span for total load for roof beams.
- g. Maximum capacity per lineal foot limited by $S =$ Shear Stress, $B =$ Bending Stress, $*$ = Deflection.
- h. Load values are for applied loading. The weight of the beam has been deducted from load carrying capacity.

FLOOR BEAM SPAN TABLES

3 1/8" ARCHITECTURAL GRADE

SPAN FEET	BEAM DEPTHS							
	6"	7½"	9"	10½"	12"	13½"	15"	16½"
6	689*	1079 S	1367 S	1690 S	2052 S	2464 S	2934 S	3477 S
7	432*	848*	1117 S	1366 S	1640 S	1943 S	2279 S	2655 S
8	288*	566*	944 S	1146 S	1365 S	1603 S	1863 S	2147 S
9	200*	395*	687*	987 S	1169 S	1364 S	1574 S	1801 S
10	145*	287*	499*	795*	1021 S	1186 S	1363 S	1551 S
11	107*	214*	373*	595*	892*	1049 S	1201 S	1361 S
12	82*	163*	285*	456*	684*	941 S	1073 S	1213 S
13	63*	127*	223*	357*	536*	766*	970 S	1093 S
14	49*	100*	177*	284*	427*	611*	842*	995 S
15	39*	80*	142*	229*	346*	495*	682*	911*
16	31*	65*	116*	187*	283*	406*	560*	748*
17	25*	53*	95*	155*	234*	337*	465*	621*
18		44*	79*	129*	196*	282*	389*	521*
19		36*	66*	108*	165*	238*	329*	441*
20		30*	56*	92*	140*	202*	281*	376*
21		25*	47*	78*	120*	173*	241*	323*
22			40*	67*	103*	149*	208*	279*
23			34*	57*	89*	129*	180*	243*
24			29*	49*	77*	112*	157*	212*
25			25*	43*	67*	98*	138*	186*
26			21*	37*	58*	86*	121*	164*
27				32*	51*	76*	107*	145*
28				28*	45*	67*	94*	128*
29				24*	39*	59*	84*	114*
30				21*	34*	52*	74*	102*

3 1/2" INDUSTRIAL GRADE

SPAN FEET	BEAM DEPTHS							
	6"	7½"	9"	10½"	12"	13½"	15"	16½"
6	772*	1209 S	1532 S	1893 S	2299 S	2760 S	3287 S	3895 S
7	484*	950*	1252 S	1531 S	1837 S	2177 S	2554 S	2975 S
8	323*	634*	1058 S	1284 S	1529 S	1796 S	2087 S	2406 S
9	225*	443*	770*	1106 S	1309 S	1528 S	1764 S	2018 S
10	162*	321*	559*	891*	1144 S	1329 S	1527 S	1738 S
11	121*	240*	418*	667*	999*	1176 S	1346 S	1526 S
12	92*	183*	320*	512*	767*	1054 S	1203 S	1359 S
13	71*	143*	250*	401*	601*	859*	1087 S	1225 S
14	56*	113*	199*	319*	479*	686*	944*	1115 S
15	44*	90*	160*	257*	388*	555*	765*	1021*
16	35*	73*	130*	210*	318*	455*	628*	839*
17	29*	60*	107*	174*	263*	378*	521*	697*
18		49*	89*	145*	220*	316*	437*	585*
19		41*	75*	122*	185*	267*	370*	495*
20		34*	63*	103*	157*	227*	315*	422*
21		29*	53*	88*	135*	195*	270*	363*
22			45*	75*	116*	168*	233*	314*
23			39*	65*	100*	145*	203*	273*
24			33*	56*	87*	127*	177*	238*
25			28*	48*	75*	111*	155*	209*
26			24*	42*	66*	97*	136*	184*
27				36*	58*	85*	120*	163*
28				32*	51*	75*	106*	145*
29				28*	45*	67*	95*	129*
30				24*	39*	59*	84*	115*

FLOOR BEAM SPAN TABLE

5 1/8" ARCHITECTURAL GRADE and 5 1/8" INDUSTRIAL GRADE

SPAN FEET	BEAM DEPTHS									
	9"	10½"	12"	13½"	15"	16½"	18"	19½"	21"	22½"
6	2244 S	2773 S	3368 S	4042 S	4814 S	5704 S	6743 S	7971 S	9445 S	11248 S
7	1834 S	2242 S	2691 S	3188 S	3740 S	4357 S	5052 S	5839 S	6739 S	7778 S
8	1550 S	1881 S	2240 S	2631 S	3057 S	3523 S	4037 S	4605 S	5236 S	5942 S
9	1128*	1620 S	1918 S	2238 S	2583 S	2956 S	3360 S	3800 S	4279 S	4805 S
10	819*	1305*	1676 S	1947 S	2237 S	2546 S	2877 S	3233 S	3617 S	4032 S
11	613*	978*	1464*	1723 S	1971 S	2235 S	2515 S	2813 S	3131 S	3472 S
12	469*	750*	1124*	1545 S	1762 S	1991 S	2233 S	2489 S	2760 S	3048 S
13	367*	587*	881*	1259*	1592 S	1795 S	2007 S	2231 S	2467 S	2715 S
14	291*	467*	702*	1005*	1382*	1633 S	1823 S	2021 S	2229 S	2448 S
15	235*	378*	568*	814*	1121*	1496*	1669 S	1847 S	2033 S	2228 S
16	191*	309*	466*	667*	920*	1229*	1539 S	1701 S	1869 S	2044 S
17	158*	255*	386*	554*	764*	1021*	1330*	1575 S	1728 S	1887 S
18	131*	213*	323*	464*	641*	857*	1117*	1424*	1607 S	1753 S
19	110*	179*	272*	392*	542*	726*	946*	1207*	1502 S	1636 S
20	93*	152*	231*	334*	462*	619*	808*	1032*	1293*	1534 S
21	78*	129*	198*	286*	397*	532*	695*	888*	1113*	1373*
22	67*	111*	170*	247*	343*	460*	602*	769*	965*	1191*
23	57*	95*	147*	214*	297*	400*	524*	670*	841*	1039*
24	49*	82*	128*	186*	260*	350*	458*	587*	737*	911*
25	42*	71*	111*	163*	228*	307*	403*	517*	649*	803*
26	36*	62*	97*	143*	200*	271*	356*	457*	575*	711*
27		54*	85*	126*	177*	240*	315*	405*	510*	632*
28		47*	75*	111*	157*	213*	281*	361*	455*	564*
29		41*	66*	98*	139*	190*	250*	322*	407*	505*
30		36*	58*	87*	124*	169*	224*	289*	365*	453*
31			51*	77*	111*	152*	201*	260*	328*	408*
32			45*	69*	99*	136*	181*	234*	296*	369*
33			40*	61*	89*	122*	163*	211*	268*	334*
34			35*	55*	79*	110*	147*	191*	243*	303*
35			31*	49*	71*	99*	133*	173*	220*	275*
36				43*	64*	89*	120*	157*	200*	251*
37				39*	57*	81*	109*	143*	183*	229*
38				34*	52*	73*	99*	130*	167*	209*
39				31*	46*	66*	90*	119*	152*	191*
40					42*	60*	82*	108*	139*	175*
41					37*	54*	74*	99*	127*	161*
42					33*	49*	68*	90*	117*	148*
43					30*	44*	62*	82*	107*	136*
44						40*	56*	75*	98*	125*
45						36*	51*	69*	90*	115*

FLOOR BEAM TABLE SPECIFICATIONS

These tables apply for uniform loads and simple spans which are laterally supported. The ends of beams must be restrained against rotation. For conditions other than simple spans and uniform loading, special engineering is required.

DESIGN VALUES

- a. Bending Stress $F_b = 2400$ psi
- b. Shear Stress $F_v = 165$ psi
- c. Modulus of Elasticity, $E = 1,800,000$ psi
- d. Design value F_b has been reduced for size factor C_F

Deflections have been limited to 1/360 span for total load for floor beams.

Maximum capacity per lineal foot limited by $S =$ Shear Stress, $B =$ Bending Stress, $*$ = Deflection

g. Load values are for applied loading. The weight of the beam has been deducted from load carrying capacity.

GARAGE DOOR HEADER SIZE CHART

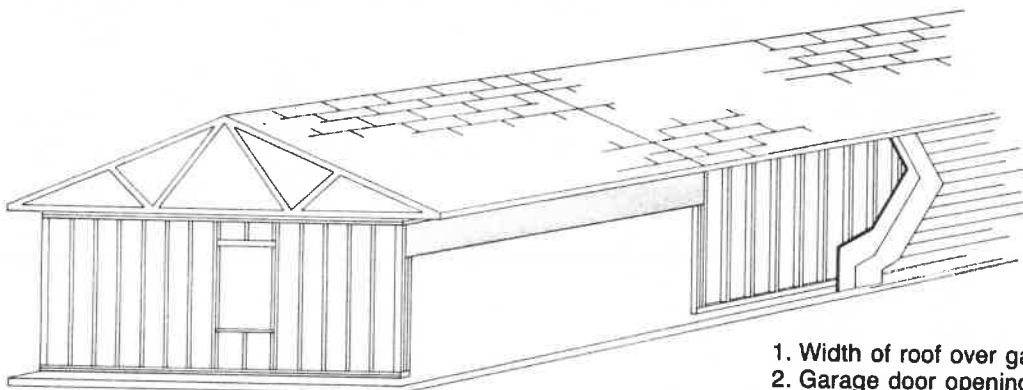
30# LIVE LOAD + 17# DEAD LOAD = 47# TOTAL LOAD

TRUSS OR RAFTER SPAN INCLUDING OVERHANG										
	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
16' DOOR	3½ x 12	3½ x 12	3½ x 13½	3½ x 13½	3½ x 13½	3½ x 13½	3½ x 15	3½ x 15	3½ x 15	3½ x 15
18' DOOR	3½ x 13½	3½ x 13½	3½ x 15	3½ x 15	3½ x 15	3½ x 16½	3½ x 16½	3½ x 16½	3½ x 16½	5 1/8 x 15

40# LIVE LOAD + 17# DEAD LOAD = 57# TOTAL LOAD

TRUSS OR RAFTER SPAN INCLUDING OVERHANG										
	22'	24'	26'	28'	30'	32'	34'	36'	38'	40'
16' DOOR	3½ x 13½	3½ x 13½	3½ x 13½	3½ x 15	3½ x 15	3½ x 15	3½ x 16½	3½ x 16½	3½ x 16½	5 1/8 x 15
18' DOOR	3½ x 15	3½ x 15	3½ x 15	3½ x 16½	3½ x 16½	5 1/8 x 15	5 1/8 x 15	5 1/8 x 15	5 1/8 x 15	5 1/8 x 16½

1. To be used for single story structures.
2. Design values: bending stress $F_b = 2400$ psi, shear stress $F_v = 165$ psi, modulus of elasticity $E = 1,700,000$ psi.
3. Design values F_b and F_v have been increased 15% for short term duration of loading.
4. Deflections have been limited to 1/180 span for total load for roof beams.



EXAMPLE:

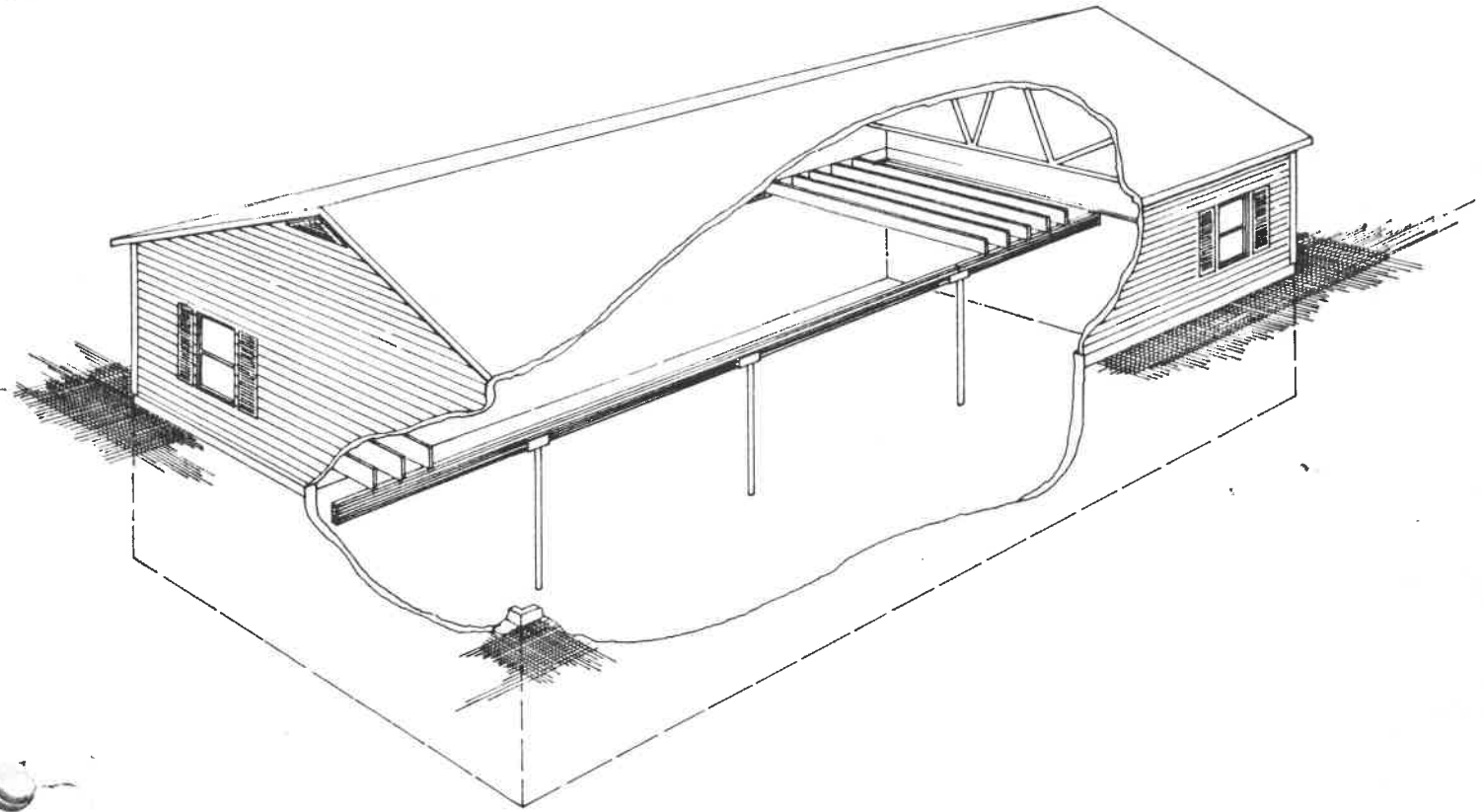
1. Width of roof over garage including overhang = 26'-0".
2. Garage door opening width = 16'-0".
3. From 30# live load size chart size required = 3 1/2 x 13 1/2.
From 40# live load size chart size required = 3 1/2 x 13 1/2.

Do Your Garage Door Headers Sag? Strength Comparison Chart for 2 x 12's vs. Laminated Garage Door Headers

16' DOOR OPENING					
TRUSS SPAN INCLUDING OVERHANG	LOAD per Lin. Ft. on HEADER 47# per Sq. Ft.	SAFE CAPACITY (2)-2 x 12-1600f	SAFE CAPACITY (3)-2 x 12-1600f	RECOMMENDED HEADER SIZE	SAFE CAPACITY RECOMMENDED HEADER SIZE
26'	611# Lin. Ft.	302# Lin. Ft.	453# Lin. Ft.	3½ x 13½	764# Lin. Ft.
32'	752# Lin. Ft.	302# Lin. Ft.	453# Lin. Ft.	3½ x 13½	764# Lin. Ft.

18' DOOR OPENING					
TRUSS SPAN INCLUDING OVERHANG	LOAD per Lin. Ft. on HEADER 47# per Sq. Ft.	SAFE CAPACITY (2)-2 x 12-1600f	SAFE CAPACITY (3)-2 x 12-1600f	RECOMMENDED HEADER SIZE	SAFE CAPACITY RECOMMENDED HEADER SIZE
26'	611# Lin. Ft.	238# Lin. Ft.	357# Lin. Ft.	3½ x 15	745# Lin. Ft.
32'	752# Lin. Ft.	238# Lin. Ft.	357# Lin. Ft.	3½ x 16½	901# Lin. Ft.

BASEMENT BEAMS



BASEMENT BEAM SIZE CHART

BEAM SIZE	HOUSE WIDTH						
	24'	26'	28'	30'	32'	34'	36'
	MAXIMUM COLUMN SPACING						
5 1/8 x 9	9'-6"	9'-0"	8'-6"	8'-6"	8'-0"	8'-0"	7'-6"
5 1/8 x 10½	11'-0"	10'-6"	10'-0"	10'-0"	9'-6"	9'-0"	9'-0"
5 1/8 x 12	12'-6"	12'-0"	11'-6"	11'-0"	11'-0"	10'-6"	10'-0"

1. Size chart based on multiple span continuous beams with uniform loads.
2. For single story construction without interior load bearing walls.
3. Design load of 40# psf live load, 10# psf dead load, 50# psf total load.
4. Deflections have been limited to 1/360 span for total load for floor beams.
5. Design values: bending stress $F_b = 2400$ psi, shear stress $F_v = 165$ psi, modulus of elasticity $E = 1,800,000$ psi.

FIRE SAFE

HEAVY TIMBER CONSTRUCTION

Heavy timber construction implies construction with massive wood members. In such construction, though the surface of a wood member may char during exposure to fire, the surface char acts as insulation. The strength of wood is such that it continues to support its load, so the chance of building collapse is greatly diminished.

To receive building code acceptance as heavy timber construction, limitations are placed on the minimum size and thickness of all load carrying wood members. For more detailed information see AITC 108-80 STANDARD FOR HEAVY TIMBER CONSTRUCTION published by the American Institute of Timber Construction and the local building code.

Building code acceptances hold great promise for simplifying construction practices while providing fire protection. Performance of heavy timber construction under fire conditions is markedly superior to most unprotected "non-combustible" (metal) structures. There are no concealed spaces where the flames can spread, so fire fighting is simpler and safer. Firemen, who have long experiences with wood's structural integrity under fire conditions, can predict more accurately how long timber will carry its load. This enables them to stay in or on the building to combat the fire.

ONE HOUR FIRE RATING

One hour fire ratings for exposed glulam beams can be achieved. By oversizing the glulam beam in the original design, the required size remains after a 1 hour burn period. This procedure is detailed in "CALCULATION OF FIRE RESISTANCE OF GLUED LAMINATED TIMBERS," TECHNICAL NOTE No. 7 published by the American Institute of Timber Construction.

PRECAUTIONS

1. Glulam Beams are manufactured from kiln dried lumber. Proper protection must be provided by the customer.
2. Architectural Grade glulam beams are wrapped for protection during shipment. If the paper has been torn or partially removed during storage and erection, it should be repaired, replaced, or completely removed.
3. The customer is responsible for the protection of all glulam beams after delivery.
4. If the glulam beams are to be stored before use, they should be placed on blocks well off the ground and individual members should be separated by strips so that air may circulate around all four (4) sides. The top and sides of storage piles should be covered with a moisture resistant material. Polyethylene films should not be used.
5. Claims for damage resulting from improper storage and handling will not be allowed.
6. Heat should not be fully turned on immediately after the structure is enclosed; otherwise, excessive checking may occur. A gradual seasoning period at moderate temperature increases should be provided. The building relative humidity should be reduced gradually.
7. To further prevent surface checking, it is recommended that all glulam beams be given 2 coats of varnish or like kind finish. Gloss, semi-gloss and flat finishes are available from your paint dealer.

LRC Products (Laminated Rafters Corp.) is one of the oldest companies in the laminated beam business. Since 1947, quality and service have been our prime objectives. Our product line consists of laminated beams with related items such as roof decking and roof decking insulation. Laminated beams are our main product, not a side line. Our salesmen are laminated beam specialists. We can fill all laminated beam requirements for residential, industrial and commercial construction.

IN-STOCK and LRC Custom Beams are sold by

LRC Products

P.O. Box 706 • Warsaw, Indiana 46580
Ohio, Michigan, Illinois, Kentucky (800) 348-2326
All Others Call Collect (219) 267-6561



ASSOCIATE
MEMBER

* WHAT TYPE OF BEAM FOR
23'-7" SPAN CARRIES FIRST FLOOR
2x6 WOOD 5700 WACC

? GARAGE FLOOR DRAIN

? BASEMENT FLOOR DRAIN

X BASEMENT DRAIN UNDERDESIGNED

X NO SET OF PRINTS ✓

X PROVIDOR LOAD TABLES FOR LAM BEAMS ✓

~~PROVIDOR AN ENGINEERS DESIGN FOR THE
OVER HEAD DOOR HEADER~~

BED ROOM WINDOWS OK

LAM BEAMS

PORCH

007 A019
BY
CRC
PROB

$$\text{ROOF \& CEILING LOADS} = 20 \times 10 + 10 + 10 = 50 \# \times 20'$$
$$= 1000 \# \text{ P.L.F.}$$

SPAN 13'-10"

GARAGE

$$18' \times 5 = 23' \times 50 = 1150 \#$$

OK
BY
CRC
PROB

SPAN 23'-8 1/2"

GARAGE DOOR HEADER

$$23'-8 1/2" \div 2 = 11.85' \times 1150 \# = 13,627 \#$$

NOTE 14,000 # HANGER OK

BY CRE

$$2357 \times 16 = 37,712 \# \div 2 \text{ FOR C90 C90} = 18,856 \#$$

DRAM OK

300 198

100 198 100 198 100 198

100 198 100 198

100 198 100 198 100 198

100 198 100 198

100 198 100 198 100 198 100 198 100 198

RAFTERS OK 2x6s OVER GARAGE
FLOOR JOISTS OK

FLOOR BEAM

3 - 2x10s HDM FIR 1242 = fb

S = 64.17 x 1242 = 79,699 MAX S^d

4 - 2x6s 106,269 MAX f^d

SPAN = 8'

CONT AREA = 6.5 + 7'4" = 13'9"

13.75' x 50# = 687.5

$\frac{688 \times 8 \times 8 \times 12}{8} = 66,048$ ACT S

BEAM OK!

CONT AREA =

14'7"
~~17'7"~~ x 50# = ~~884~~ 734
SPAN = 9'

734 ~~884~~ x 8 x 8 x 12
8

89,181
~~107,406~~

BEAM NOT OK

NOTE 4 - 2x10s WOULD MEET CODE

TAPPING PERMIT

Office of
Water Works
Napoleon, Ohio

No. W-529-88

Date 8-12-68

Received of WILLIAM WRIGHT

THREE HUNDRED + SEVENTY FIVE Dollars 1.75

Charge for tapping permit to supply water services to Lot No. 71

Addition AUTHORITY WAYNE ACRES 5TH ADD

Street No. 620 RONN DR

Tap Size 1 Inch Cost 700.00

Plumber BOB O'LEON. PL # 1174

Clerk-Treasurer

Date completed 7-30-68 Service # 2827

Paul Schmitt
Water Distribution Department

Name William Wright Size of Tap 1" Date 9-30-88

Street 620 Robin Dr.

Old No. _____

New No. 8827

Size and Kind of Main 6" A.C.
Location of Main 18 1/2' N. of N. curb
Depth of Main 4 1/2'
Distance from Hydrant/Valve # 443 66'
Distance to Curb Stop from Corp. 49'

