Glasteel®

STANDARD SIZES & COLORS

SERIES	CORRUGATION (Inches)	WIDTH (Inches)	COLORS
5XTF	CORONET Guaranteed 20 Years	26	White, Shamrock, Tan, Yellow, Turquoise
550	2½ x ½	26	Green, White, Shamrock, Tan, Mint, Clear, Yellow, Coral, Turquoise, Tangerine
		51½	White, Shamrock, Tan, Clear, Yellow
550	Twin Rib	26	Mint, White
550	Flat (50' Rolls)	24, 36, 48*	Green, *White, Tan, *Clear
650	3" x 9/16" Steplap	40	White, Tan, Shamrock, Yellow (12 ft. lengths only)

Stocking Lengths: 8, 10, 12 Feet

Series 5XTF and 550—Weight 5 oz. per sq. ft.   Series 650—Weight 6 oz. per sq. ft.

A guide for building with

Glasteel®

FIBERGLASS PANELS

Wherever

you want to

keep the glare out —

let the light in —

Glasteel®

FIBERGLASS PANELS

The attractive and versatile translucent building material that provides so many more opportunities for incorporating light, shade and color in your home improvements.

EASY TO WORK WITH. Cutting may be done with an ordinary hand saw, metal saw or power saw. Nail or bolt panels as you would any material.

SHATTERPROOF. In most instances fiberglass panels will not shatter when struck by sharp objects. As steel reinforces concrete so in like manner do glass fibers reinforce the basic resins.

WEATHER RESISTANCE. Fiberglass panels are impervious to weather variations. An ideal material for both interior and exterior applications. Test results prove panels are unaffected by exposure to prolonged conditions of extreme heat, wind, hail, and salt spray.

QUALITY. A premium quality fiberglass panel manufactured by a continuous process that affords assurance of complete and consistent uniformity. Uniform dispersion and color consistency between panels contributes to the uniformity in light diffusion. Uniform thickness at all points combined with uniform corrugations means that all panels overlap perfectly, nesting to assure a weathertight and waterproof closure.
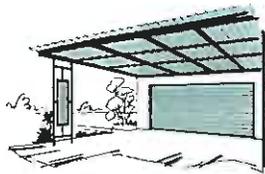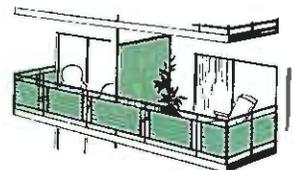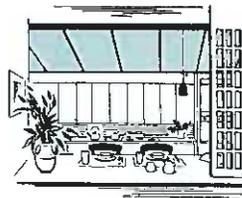
Garage Doors, Carports
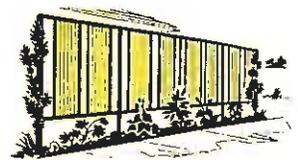
Fences, Windbreaks, Pool enclosures
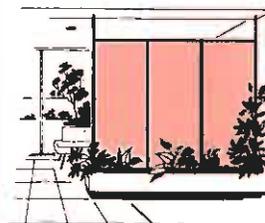
Patio and Porch Roofs
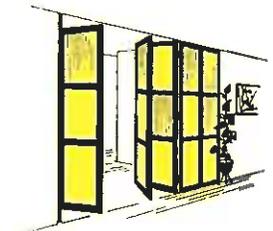
Balcony Railings and Dividers

Luminous Ceilings
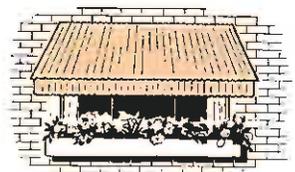
Greenhouses and Toolsheds

Partitions and Room Dividers

Folding Doors and Screens

Children's Playhouses and Dog Houses

Awnings and Canopies

Add distinctive design to your home with

Glasteel® ♔ CORONET

Graceful curves of alternating width provide the perfect look for contemporary homes. The first truly distinctive design in fiberglass panels.

XTF Panels

The prestige quality panel guaranteed for 20 years (Page 4). XTF means Xtra Tough Finish...the result of an entirely new plastic resin. Harder than panels modified with other resins. The XTF finish is so smooth that erosive dirt particles cannot be trapped, therefore weather resistance is greater.
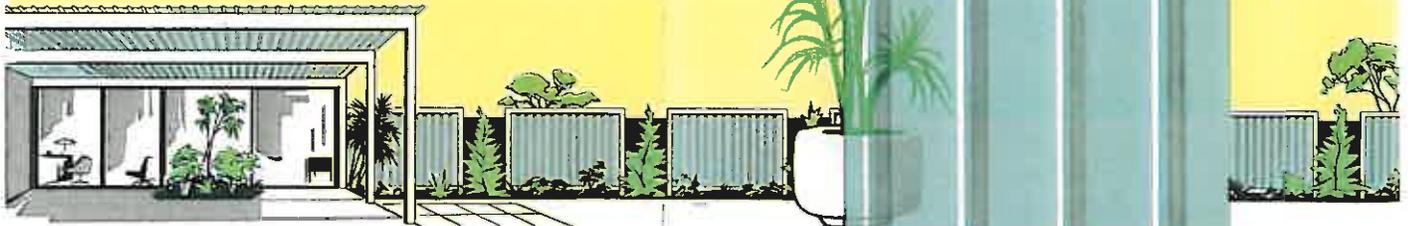
OTHER PATTERNS OR CONFIGURATIONS AVAILABLE

| 2½" x ½" Corrugation | Twin Rib | Flat in rolls | 3" x 7⁄16" Steplap |

How to Select the Proper Color

- To harmonize or contrast with your decor
- All colors transmit light
- Translucent colors allow maximum light
- Opalescent colors block heat, yet let the light in

COLOR SELECTION AID

VISIBLE LIGHT AND HEAT
TRANSMISSION VALUES FOR GLASTEEL

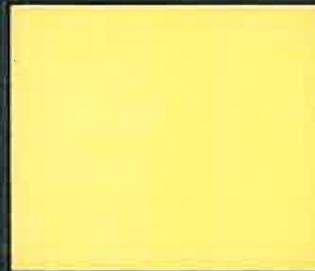| COLOR	Visible Light by %	Heat Transmitted by %	
WHITE	59	30	
YELLOW	45	35	
TURQUOISE	43	35	
TAN	38	22	Opalescent Colors
MINT	40	38	
SHAMROCK	20	42	
TANGERINE	59	33	
CORAL	52	55	
GREEN	57	65	Translucent Colors
CLEAR	82	68	
SINGLE STRENGTH CLEAR GLASS	96	84	

THE ABOVE INFORMATION IS BASED
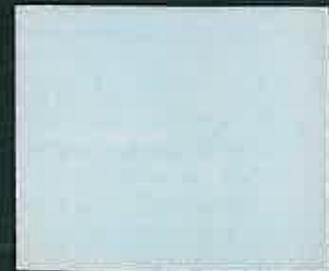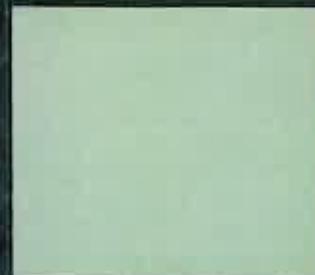ON APPROXIMATE READINGS

TAN
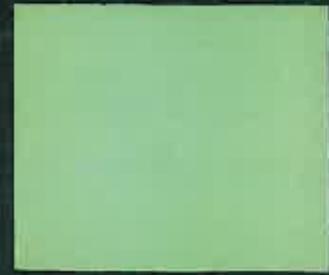
GREEN

YELLOW

TURQUOISE

CORAL

SHAMROCK

MINT

TANGERINE

WHITE

CLEAR

Glasteel® XTF PANELS
GUARANTEED
20 YEARS

XTF panels are guaranteed to be free of structural defects at date of purchase. GUARANTEED 20 YEARS under normal conditions of use and within material specifications for the following:

1. To evidence only normal wear during the period of the guarantee.
2. To maintain good surface appearance, color stability, and light transmitting properties.
3. Not to chip or peel and to maintain heat blocking properties.

Should panels fail to meet any of the guarantee features during the 20 years after purchase, purchaser should first submit claim in writing to Glasteel, Inc., So. El Monte, Calif., with dated proof of purchase and labels. Glasteel at its option will refund 5% of the purchase price for each year less than 20 since the purchase was made, or replace panels. Glasteel may request defective panels to be returned for inspection freight prepaid to GLASTEEL, INC., SO. EL MONTE, CALIFORNIA 91733.

Glasteel® STANDARD PANELS
WARRANTED
10 YEARS

These panels are warranted to:

- Contain no resin "fillers" or extra thinners
- Contain standard ratios of fiberglass to resin
- Be of the weight per oz. specified ±5%
- To maintain good surface appearance, color stability properties within material specifications.

Should panels fail to meet any of the above warranty features during the 10 years after purchase, purchaser should first submit claim in writing to Glasteel, Inc., So. El Monte, Calif.,with dated proof of purchase and labels. Glasteel at its option will refund 10% of the purchase price for each year less than 10 since the purchase was made, or replace panels. Glasteel may request defective panels to be returned for inspection freight prepaid to Glasteel, Inc., So. El Monte, California 91733.

How to Select
the Proper Quality

IS THERE SOMETHING ONE NEEDS TO KNOW ABOUT FIBERGLASS PANELS? AREN'T THEY ALL ALIKE?

Indeed there is something to know about the differences between fiberglass panels that look alike. The quality differences in panels can make the so-called "bargain" panels very expensive; and your best buys could easily be those that cost a few cents more per panel, but which continue to wear and look beautiful over a long period of years.

Two fiberglass panels that look alike when new can be very different in these important ways:

BASIC INGREDIENTS. Quality panels are manufactured of fiberglass and pure polyester resin. In cheap panels costs are cut by using resin "fillers" and/or thinners that rob panels of their beauty and durability.
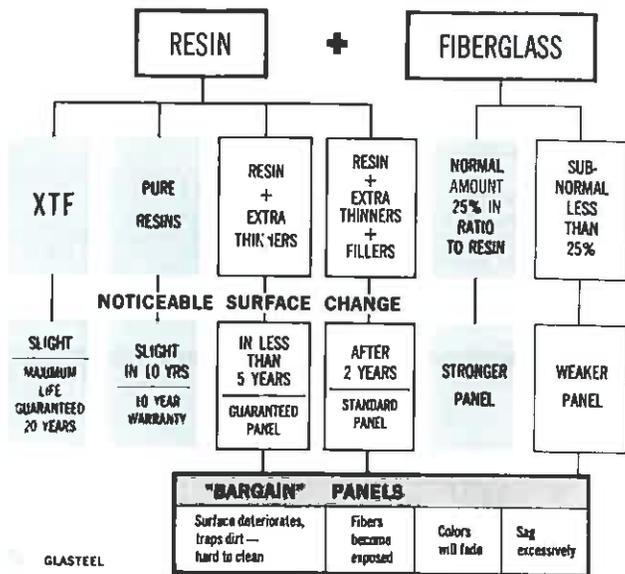
WEATHERABILITY. Panels that have pure resin content retain their color and beauty in all weather over many years. After one or two seasons, "bargain" panels, using resin fillers or extra thinners, deteriorate and the fibers become exposed.

STRENGTH. The impact strength and shatterproof quality in panels relate to the amount of fiberglass used. There is no economy in paying less for panels containing a lesser amount of fiberglass. A panel containing the proper ratio of resin to fiberglass will be less flexible and will not sag excessively.

CLEANING. All fiberglass panels must be hosed or washed off at regular intervals to maintain their translucent quality. Panels lose their beauty when they become imbedded with dirt and grit. When inferior resin fillers are used, the panels are more porous, fibers become exposed, they trap dirt, and are hard to keep clean.

WEIGHT. Fiberglass panels are manufactured in a variety of weights to serve a variety of applications. For example, 4 oz. per sq. ft. panels are recommended only for interior use. 5 oz. or heavier is recommended for exterior use. It is safest not to buy panels where the weight is not indicated on the label.

HOW PANELS DIFFER WITH THE SAME BASIC INGREDIENTS

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        ┌─────────┐   +   ┌────────────┐
        │  RESIN  │       │ FIBERGLASS │
        └─────────┘       └────────────┘
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| XTF | PURE RESINS | RESIN + EXTRA THINNERS | RESIN + EXTRA THINNERS + FILLERS | NORMAL AMOUNT 25% IN RATIO TO RESIN | SUB-NORMAL LESS THAN 25% |

NOTICEABLE SURFACE CHANGE

| SLIGHT | SLIGHT IN 10 YRS | IN LESS THAN 5 YEARS | AFTER 2 YEARS | STRONGER PANEL | WEAKER PANEL |

- MAXIMUM LIFE GUARANTEED 20 YEARS
- 10 YEAR WARRANTY
- GUARANTEED PANEL
- STANDARD PANEL

"BARGAIN" PANELS

| Surface deteriorates, traps dirt — hard to clean | Fibers become exposed | Colors will fade | Sag excessively |

GLASTEEL

FADEOMETER TESTS SHOW HOW COLORS FADE IN VARIOUS GRADES OF FIBERGLASS PANELS

	NEW	AFTER 1 YEAR	AFTER 5 YEARS	AFTER 10 YEARS	AFTER 20 YEARS
XTF PANEL 20 YEAR GUARANTEE*					
STANDARD PANEL 10 YEAR WARRANTY*					
OTHER STANDARD PANEL					
OTHER GUARANTEED PANEL					

Above illustrations are based on accelerated Fadeometer laboratory tests.

*GLASTEEL

Cost Comparison Chart

shows the overall dollar difference in cost between building with so-called "bargain" or "quality" panels.

TYPICAL COSTS FOR BUILDING A 10' x 20' PATIO ROOF

PANEL WEIGHTS (Per Sq. Ft.)	LABOR (1)	PANEL COST (2)	LUMBER COST (3)	OTHER MATERIAL COST (4)	TOTAL	PER SQ. FT. COST
4 oz. Corrugated	$100.00	$54.18	230 B/F (A) $69.00	$20.36	$243.54	$1.22
5 oz. Std. Corrugated 10 Year Warranty	$100.00	$73.68	210 B/F (B) $63.00	$20.36	$257.04	$1.29
5 oz. XTF Coronet 20 Year Guarantee	$100.00	$78.00	210 B/F (B) $63.00	$20.36	$261.36	$1.31

Note

that the overall cost for building a 10' x 20' patio roof with 5 oz. XTF Panels, Guaranteed for 20 years, is only 9¢ per square foot more than for the so-called "bargain" panels which have no guarantee at all.

(1) Based on average installation cost of $.50 per Sq. Ft.
(2) Panel costs as follows: 4 oz. — $.25 Sq. Ft.; 5 oz. — $.34 Sq. Ft.; 5 oz. XTF Coronet — $.36 Sq. Ft.
(3) Using 2 x 6 Clear A Redwood @ $.30 Board Foot.

(4) 3 Wood or Metal Patio Posts — $12.00; 6 Shields — $1.20; 12 - ¼" Bolts — $1.20; Galvanized Nails — $.52 lb.; Clear Sealer — $1.94; 3" Lag Bolts — $.50; Aluminum Nails with Washers — $3.00.
(A) Bracing Every 2 Feet. (B) Bracing Every 3 Feet.

THESE PRICES ARE BASED ON U.S. COSTS AND WILL VARY IN DIFFERENT AREAS.

Protect Your Investment — Buy Only Guaranteed Labeled Panels

HOW TO BUILD
Patio, Carport or Porch Roofs

Fiberglass Panels are easy to work with. Cut them with an ordinary hand, metal, or power saw. Nail or bolt fiberglass panels as you would any material. Predrilling is advisable. For best results in the building of your roof, follow these step by step instructions.
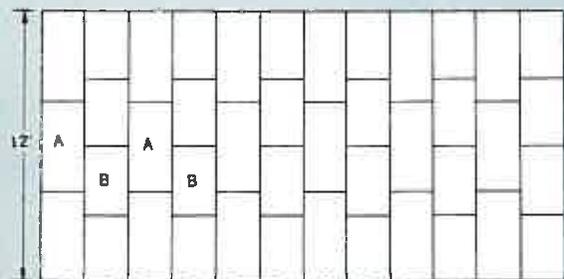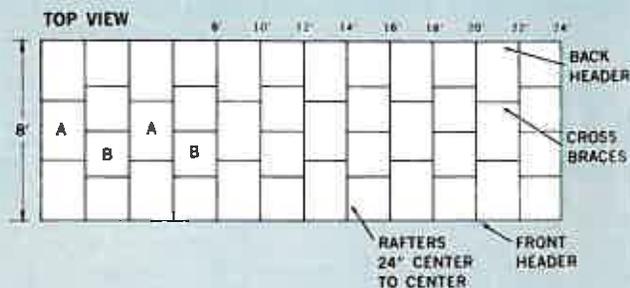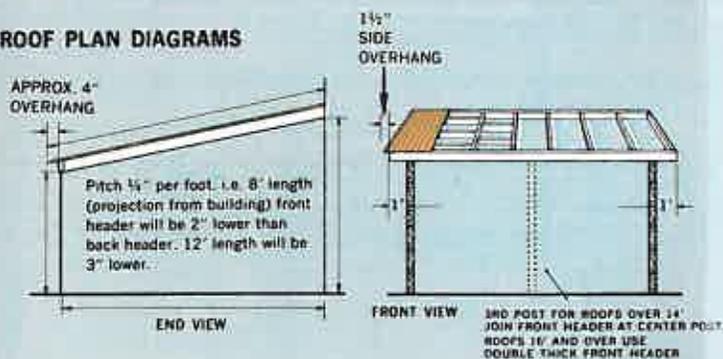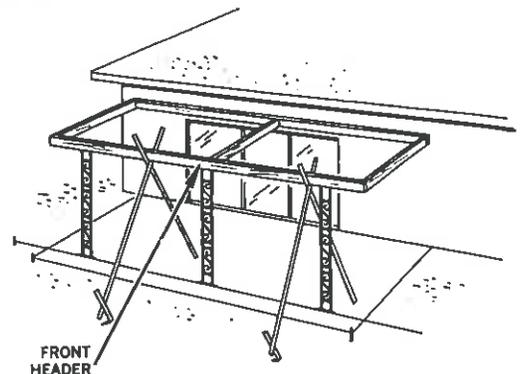
TYPICAL CROSS BRACING PLAN: For cross bracing, follow patterns shown here. For spacing, divide distance (A) between front and back header by 3, alternate by dividing the next space (B) by 4. All measurements shown here are approximate and should be checked on your own framework before cutting.

Cross braces should be cut to fit between rafters (approx. 22¼"). Cross braces for end rafters should be cut 1½" less to allow for side overhang.

Because of variations in local building codes, check recommended lumber dimensions shown here with your local building department. If you find it necessary to walk on a fiberglass roof, use a plank to walk on for extra support.

MAINTENANCE — Fiberglass panels will retain their beauty for years if they are kept clean. Wash your roof with a garden hose to remove dirt. Avoid using harsh chemicals, paint thinners, detergents, and abrasive type cleaners.

ROOF PLAN DIAGRAMS

APPROX. 4" OVERHANG

Pitch ¼" per foot. i.e. 8' length (projection from building) front header will be 2" lower than back header. 12' length will be 3" lower.

END VIEW

1½" SIDE OVERHANG

FRONT VIEW

3RD POST FOR ROOFS OVER 14'. JOIN FRONT HEADER AT CENTER POST. ROOFS 10' AND OVER USE DOUBLE THICK FRONT HEADER

TOP VIEW

BACK HEADER
CROSS BRACES
RAFTERS 24" CENTER TO CENTER
FRONT HEADER

FRONT HEADER

3. Attach the front header securely to the support posts, then raise posts into temporary position with pieces of lumber.
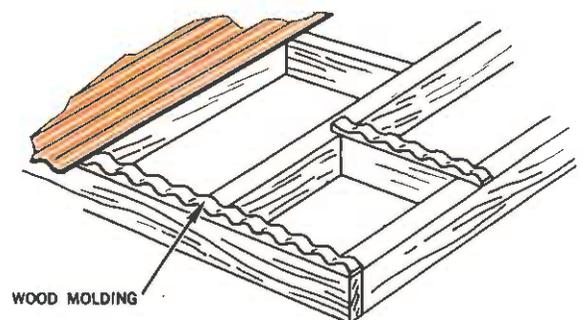

WOOD MOLDING

6. Nail cross braces in position as shown in Roof Plan Diagrams. Now is the time to paint or stain all woodwork, including corrugated wood molding. Lay corrugated wood molding on front and back headers. Cut corrugated wood molding for cross braces, approximately 24" wide. However, make sure corrugations match fiberglass panels.
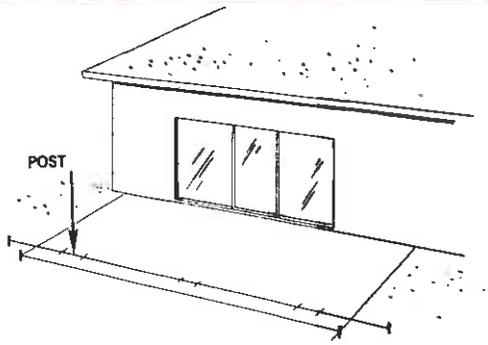
1. Set the sites for your posts, making certain that all corners are square. If your floor is not already made of concrete, provide cement footing for all posts. Set the front posts in 4" less than the length of the panels to allow for overhang. See plan diagram.

POST
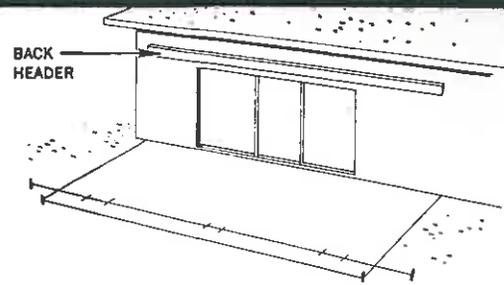
BACK HEADER

2. On the house wall, mark the desired top roof line. Under the line attach a back header board to the building studs usually spaced 16" apart, using lag screws. Trim back and front headers 3" less than width of the roof to allow for overhang of 1½" on each side. To achieve the proper pitch for drainage, set the back header higher than the front header, ¼" for each foot between the two headers. Example: A 12' long roof would have a front header set 3" lower than back header, to allow water to run off. Adjust front posts to height accordingly.

RAFTER

5'

4'

3'
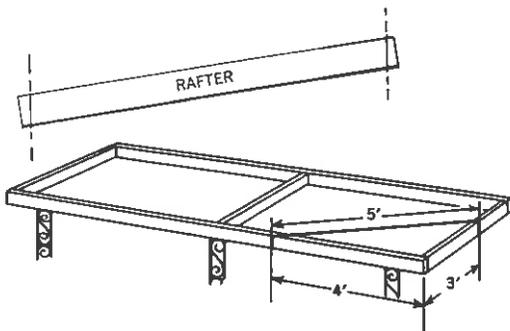
4. Before attaching the rafters to the front and back headers, cut triangles off the rafter ends so that they set flush to the headers. While support posts are still in temporary position, test the front header and the end rafters for squareness by the 3-4-5 formula, as shown in this diagram.

24" cc
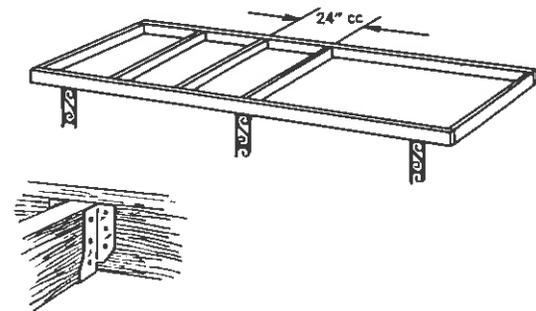
5. Anchor support posts to concrete footings with lag bolts and shields, using star drill or mortar bit to drill holes. Secure rafters in position, using joist hangers. Space between rafters is 24" center to center, but make allowance for the end rafters which were brought in 1½".

12"

CLEAR SEALER FOR OVERLAPS
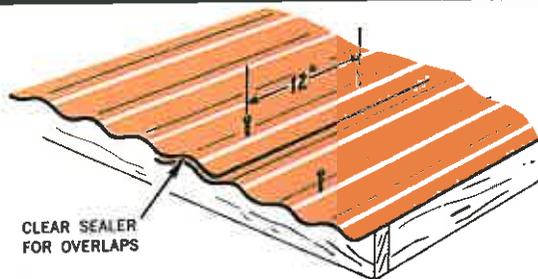
7. Starting at one end, nail the first panel to the rafters, allowing approximately 1½" on the side. Make sure frame is square before nailing. Overlap panels one corrugation on side, being sure to place clear sealer between the overlapping panels to prevent water seepage. Pre-drill holes for nails to prevent crazing. Use the special aluminum screw type nails with neoprene washers to attach panels to framework. Nail through the crown of corrugation, 12" apart on rafters and on every third corrugation over cross braces.

CAULKING COMPOUND OR CLEAR SEALER

FLASHING VALANCE
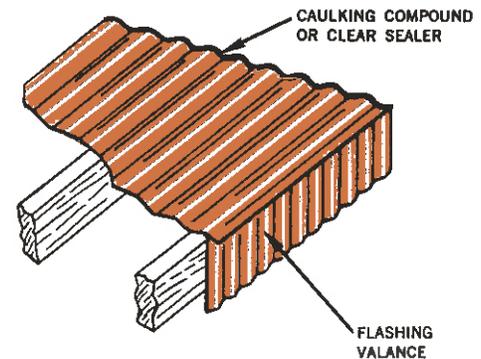
8. Where panels meet wall at back header, it is recommended to use caulking compound or clear sealer. To add a decorative touch to your roof, attach an 8" valance to the end rafters and front header.

7
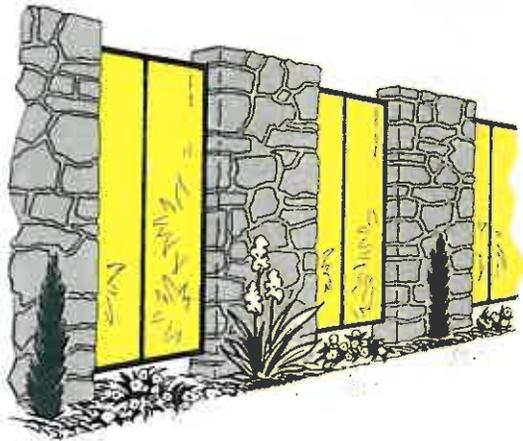
Glasteel combines well with other materials, such as
stone and brick, to achieve contrast in textures.
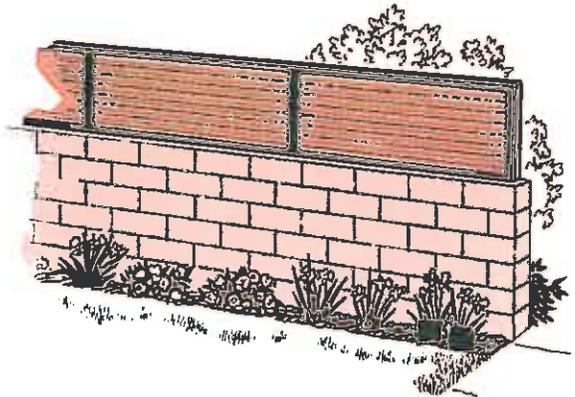
By adding Glasteel to existing fences, you can increase
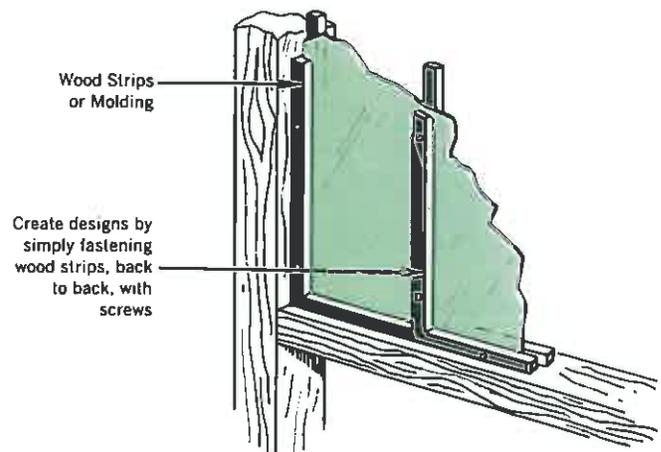their height and still let the light through.

Glasteel. "GOOD NEIGHBOR" FENCES provide light...color...privacy

Colorful, translucent Glasteel fences add a light, airy feeling
to your outdoor living area. They provide complete privacy,
with none of that boarded up, hemmed in feeling. We call
them "good neighbor" fences, because the folks next door
share their beauty and privacy with you. Glasteel lets the
light through, yet screens out the glare. Colors are gay and
inviting, hardly ever need maintenance. Dirt rolls off easily
when washing with a garden hose. And sturdy Glasteel is
shatterproof! It stands up against wind, rain, snow and
sleet. Baseballs or rocks won't dent it. Can't warp, crack,
peel, chip or rot. Here are just a few of the decorative effects
you can achieve with Glasteel fiberglass panels.

¼ round
molding

Coronet or
corrugated
molding
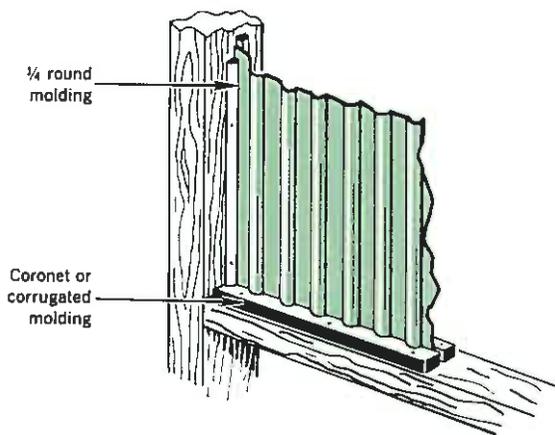
Glasteel is easy to install. Can be nailed, sawed or drilled;
is easily held in place with wood moldings.

Wood Strips
or Molding

Create designs by
simply fastening
wood strips, back
to back, with
screws

Wood strips held in place with screws enable you to easily
remove Glasteel panels when repainting framework.

8
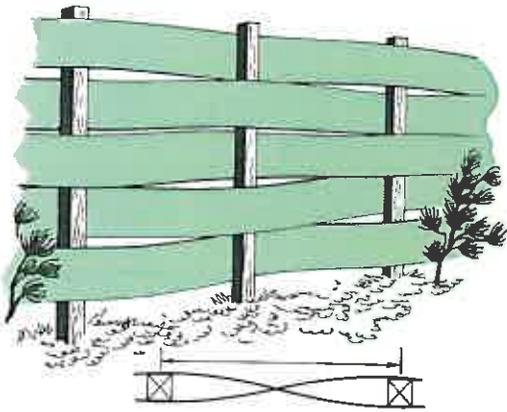
Basketweave design creates interesting shadow patterns. The flat Glasteel strips are woven around redwood posts.
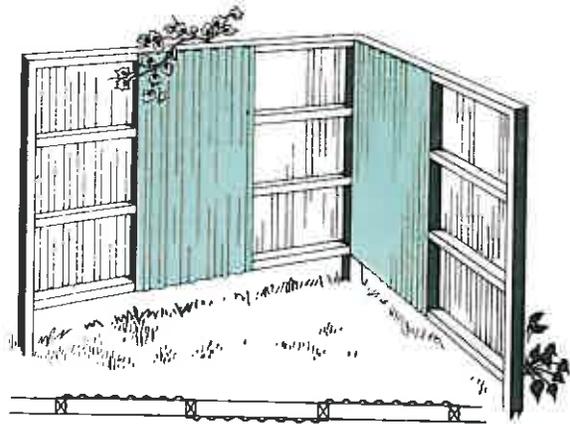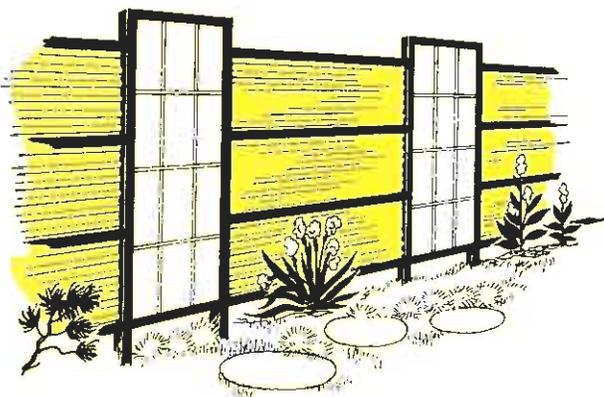
Shadow box design looks equally attractive on both sides. Contrasting Glasteel panels give an unusual color effect.
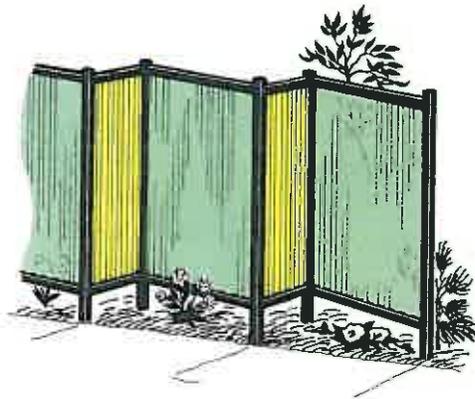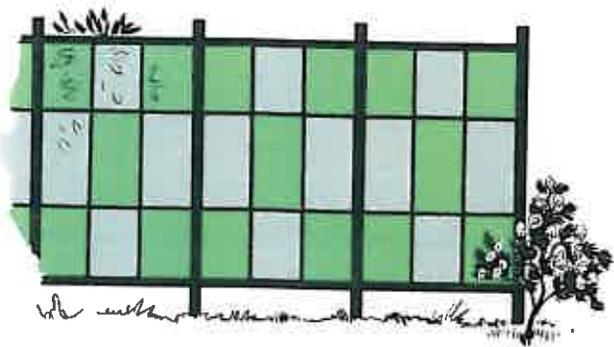
Accordion design helps break the monotony of straight line fences. Contrasting colors can add an interesting touch.
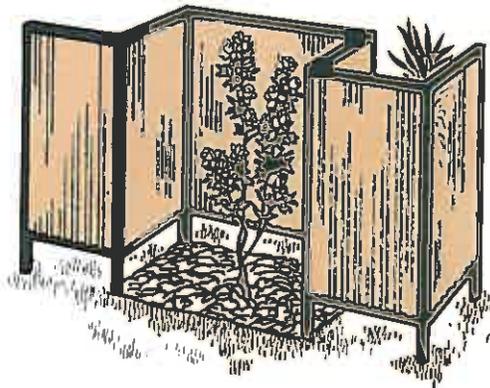
Square recessed type provides a showcase for prize plants. Glasteel panels show off silhouette of plants from either side.

Contrasting pattern of flat and Coronet panels provides a varied effect. Good design prevents boxed-in effect.

Shoji type design, constructed with Glasteel, permits you to use your ingenuity in creating unlimited pattern and color variations.

FOR GREENHOUSES...shatterproof *Glasteel* is unsurpassed

Keep your "green thumb" happily occupied the year 'round in an easy-to-build Glasteel greenhouse. Because Glasteel can be sawed, nailed and drilled with ordinary tools, it's an ideal greenhouse building material. Requires a minimum of framing. Can be inserted directly into the ground because it will not rot. It is shatterproof, impervious to weather. No whitewashing necessary. Maintenance is practically eliminated. And translucent Glasteel blocks out harmful sun's rays—improves plant growth, offers a happy environment for plants.
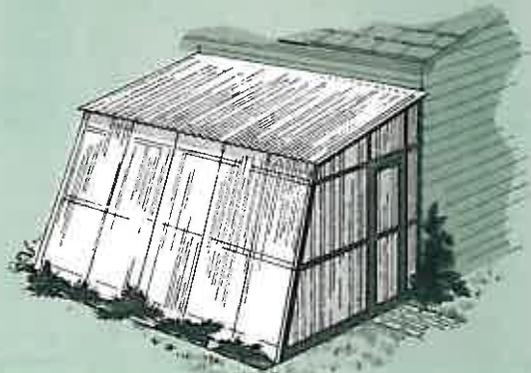
The Lean-to can be attached to your home, garage or work room.
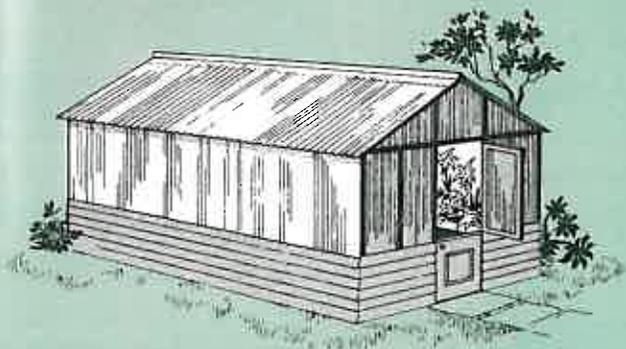
Combination greenhouse-workshop uses both redwood siding and Glasteel.
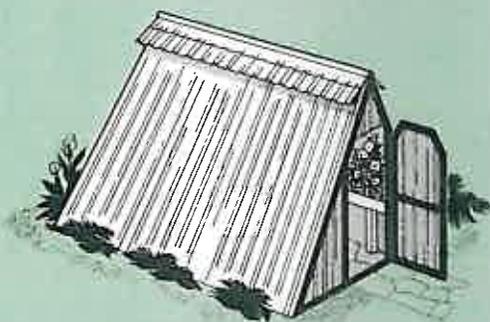
A-Frame greenhouse is easy to build, attractive as well as practical.
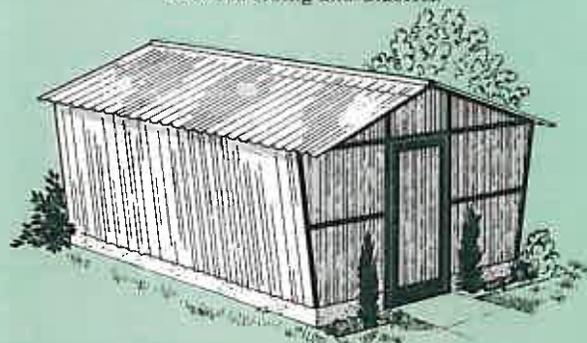
**Angular design** combines greenhouse with play room or storage room.

**Glasteel Plant Shelter** provides weather protection for delicate plants; simple to build.

Octagon shaped greenhouse makes an attractive garden center piece.

## *Glasteel* AWNINGS are permanent, never need replacing

Translucent Glasteel filters out glaring rays of the sun; lets soft, diffused light flow into your rooms. Makes a colorful, attractive addition to any home.
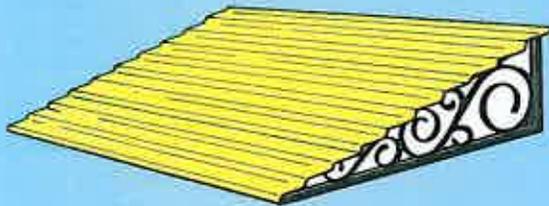
Glasteel steplap panels, fastened to standard awning brackets, make this the simplest awning to build.
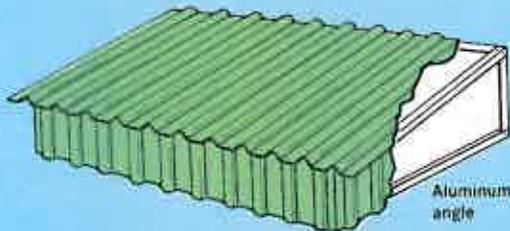

It's easy to build any size or design you desire by using aluminum angle for framing. Glasteel panels fasten to the frame with sheet metal screws.
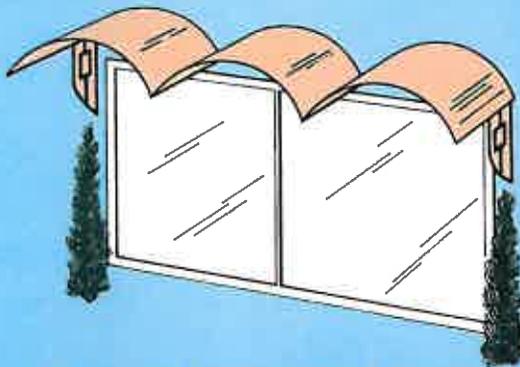
A modern curved awning softens rectangular lines of the house, can easily be fashioned with flexible Glasteel. Arches attach to aluminum angle with sheet metal screws.

Glasteel ACCESSORIES

give you a completely weatherproof, professional looking installation
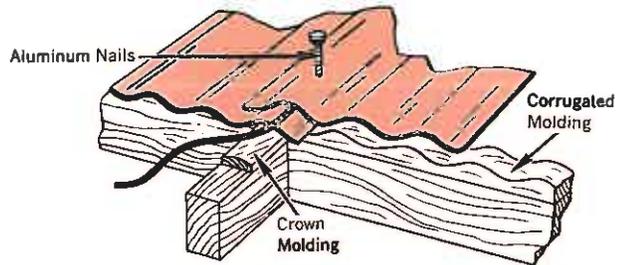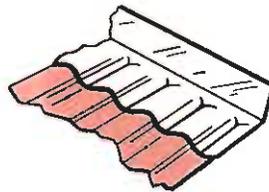

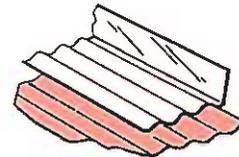**Aluminum Weatherproof** nails. Screw type with neoprene washers.

Non-Drying Mastic for sealing and caulking overlaps and flashings.

Crown Redwood Molding provides extra support under overlapped panels.
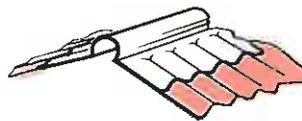
Corrugated Redwood Molding provides a closure and support at ends of panels.
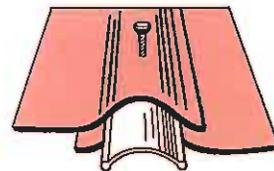

End Wall Flashing prevents leaks where end of Glasteel meets wall.

Side Wall Flashing used where side of Glasteel joins wall.

Ridge Roll Flashing for covering the ridge where panels meet at top.

Clear Vinyl Side Lap Sealer especially recommended for high wind areas to keep out snow and rain.

Translucent Sealer. Permanent, water-proof. Good adhesion for overlaps and caulking.

Glasteel Refinisher for restoring original translucency, and high gloss. Will increase life span of the panels.

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