With man already skirting the fringes of space and a population that threatens to burst the world's seams by the year 2000, it is difficult to predict with certainty what forms housing will take in the 21st Cen-One thing is certain. We know that more and more people turv. must be squeezed onto less and less land, and gardeners and domestic help will be even harder to find. Tomorrow's citizens may dwell in many-storied apartments-but we suspect man will crave a private At the same time, it is refuge that is distinctively his own. not likely that space age man will retain the prison of today's straightline architecture. Instead, he will yearn for exotic surroundings like those in this Home of Tomorrow. More than a demonstration of dramatic lighting effects or a showcase for the

century 21 plywood home of living light

sophisticated new fixtures that will make living easier tomorrow, this dwelling has an undeniably distinctive form that will be vital for houses crowded row on row on small, scarce lots. It offers privacy for every member of the family and provides them with a view of the outdoors-yet effectively shields neighbor from neighbor.



### century 21 plywood home of living light

Its circular rooms achieve a long sought goal-breaking with traditional square shapes imposed upon architecture because of the nature of conventional structural materials. They free interior designers from many of their present limitations and furniture manufacturers could gradually work toward utilization of the new shape with more interesting results than ever before.

Of course, the round rooms are easier to light by either natural or artificial means; and their shape makes most efficient use of every square foot of floor space.

A small house with small rooms, its gracefully vaulted plywood roof domes feature skylites that capture natural light and give a feeling of spaciousness. The domes could rotate ... following the sun in Winter and facing away from the sun in Summer . . . providing complete control of solar lighting

and heating.

Divided into separate and distinct living units, the Home of Living Light permits traffic to flow with ease between areas. To preserve privacy, this house has turned upon itself and the garden has moved indoors into the atrium-borrowed from the town house of ancient Rome.

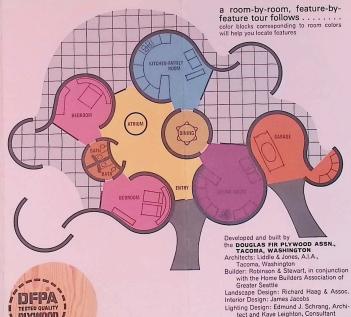
Basically, this design reveals the adjustments housing will make in the coming forty years. Tomorrow's architect will find his job a challenging one . . . that of enclosing limited space within exciting new forms.

On the pages that follow you will tour room-by-room and feature-by-feature the house of tomorrow. Many of America's leading manufacturers and Practical Builder Magazine have cooperated with the Douglas Fir Plywood Association to bring you this glimpse of home life tomorrow. We hope you enjoy your taste of life in the 21st Century.

### what miraculous building material of the future has been selected for this home?

The one used will never rust or corrode, grow brittle with age or come apart in the weather. It has tremendous resistance to dents or punctures and cannot split. It can be left unfinished or covered with any paint, plastic or metal you may choose. It possesses natural insulation against heat and cold that cannot be topped by any other structural material now in existence; and furthermore, its dimensions will not fluctuate wildly with every extreme of heat or cold. Pound for pound, it's the strongest structural material. Furtherit is a material that anyone can work easily-and feel at

It's plywood . . . natural wood engineered into its most useful form!



Douglas Fir Plywood Association, Tacoma 2, Wash. - Form No. 62-300

exterior features	■ Plysawn plywood from Cloverdale Plywood Co., Cloverdale, California, adds interest to exterior walls and cones.  ■ Screens and roof are coated with long-lasting Hypalon from E.I.du Pont de Nemours & Co., Wilmington, Delaware.  ■ Door hardware and locksets supplied by Medallst Hinnios.  ■ Full-height "Symphonic" exterior doors are made by Simpson Timber Co., Seattle, Washington.  ■ Decorative Sculpt-a-grille screens in planting areas are from Tree Products Co., San Mateo, California.  ■ Welchboard deck surfaces are an overlaid plywood product of West Coast Plywood Co., Aberdeen, Washington.	kitchen- family room
atrium	Acrylic plastic "Skydomes" are made by American Cyanamid Co., Building Products Div., Cambridge, Mass.  "Touch Command" laundry appliances in Afrium alcove are products of Hotpoint Company, Chicago, Illinois.  "Simpson Timber Company "Forestone" acoustical celling title helps muffle sound throughout the house in the Haddon-Hall pattern by Wood Mosaic Corp., Louisville, Kentucky.  "Air-Flow" closet doors present a new concept in louvers—designed by James Flanagan, made by Buffelen Woodworking Co., Tacoma, Washington.	
bedrooms	Outdoor views are seen through crystal-clear glass walls from Pittsburgh Plate Glass Co., Pittsburgh, Plat. Disposable paper clothing and bed linens are a development of Kimberly-Stevens Corporation, New York, N.Y. Modernfold Doors on free-standing closets are made by New Castle Products, Inc., New Castle, Indiana.  The space-saving "Phantom Bed" is made by Phantom Bed Division / BHQ Corp., Hot Springs, Arkansas.  Hardwood paneling supplied by the United States Plywood Corporation, New York, New York.	dining room
		garage
		hidden servants
bathrooms	■ Wall-to-wall luminous bathroom ceilings are created by Artcrest Products Co., Chicago, Illinois. ■ Attractive bathroom fixtures, including wall-hung tollet are by Case Manufacturing Co., Robinson, Illinois. ■ Vanity tops and wall areas are beautified with Formica from the Formica Corporation, Cincinnati, Ohio.	

living

room

Washington.

room garage hidden servants Bathroom fans by Nutone Incorporated, Cincinnati, Ohio, both heat and ventilate the bathroom. ■ Bathroom cabinets and accessories by the Miami Cabinet Div., Philip Carey Manufacturing Co., Middletown, Ohio. ■ Wide openings in shower and tub enclosures are made possible by Showerfold Door Corp., Chicago, Illinois. Another new concept in acoustical ceilings is introduced by Artcrest Luminous Ceilings. ■ Traditional "living light" is introduced with the fireHOOD by Condon-King Co., Seattle, Washington. Luxurious choice American Cherry paneling with craftwall finish is made by the Weyerhaeuser Company, Tacoma.

Luminous ceilings by Arterest again softly supplement abundant natural light. ■ Sliding Alsynite cabinet doors by Alsynite Division, Reichhold Chemicals, Inc., White Plains, N.Y. Formica graces working surfaces and plywood cabinet doors in this kitchen of tomorrow. ■ The Coffee Butler, HAVAJAVA Mfg. Corp., Los Angeles, Cal., produces a hot cup of real coffee in 12 seconds. ■ Hotpoint Company appliances including "Custom Crest" wall oven, "Town and Country" drop-in range, "Dual Jet Spray" dishwasher and "No Frost" refrigerator give this kitchen 21st Century efficiency. Dripping faucets are eliminated with the kitchen sink and

by Pacific Northwest Bell, Seattle, Washington. ton Steel Products, Inc., Tacoma, Washington. Another United States Plywood Corp., paneling adds an air of gracious luxury to the dining room.

hoods are also quality Nutone products.

faucet by Lawndale Industries Inc., Aurora, Illinois. ■ National Lock Company hardware preserves and enhances the clean modern lines of kitchen cabinets. ■ Nutone's built-in Food Center will blend, mix, shred, slice and grind foods, juice fruits and sharpen cutlery. ■ The built-in barbecue and decorative, efficient range

■ Tomorrow's vehicle is protected by a door and electronic operator from The OVERHEAD DOOR Corp., Hartford City, Indiana.

■ Truly futuristic "Picturephones" are made possible today

■ Built-ins and "Kitch'n Handy" accessories by Washing-

"Safety breaker" circuit breakers from Cutler-Hammer. Inc., Milwaukee, Wisc., assure safe, reliable power,

■ The Vacu-Flo built-in vacuum cleaner is manufactured by H-P Products, Inc., Louisville, Ohio.

Year around comfort is maintained with a heat pump from Lennox Industries, Incorporated, Marshalltown, Iowa.

Corrosion-proof Cycolac plastic drain and vent system by Marbon Chemical Div., Borg-Warner Corp., Chicago, III.

Air stays fresh and pure with electronic air cleaning by Minneapolis-Honeywell Regulator Co., Minneapolis, Minn. ■ Honeywell's "Weather-Station" thermostat, "Socialite"

light regulator and switches add finishing touches. ■ Spectacular interior lighting comes from fixtures by Marvin Electric Mfg. Co., Los Angeles, California.

■ Nutone provides the sound-from door chimes to completely integrated, fully built-in hi-fi and intercom system. ■ 24-hour cycle automatic lighting control provided by

Paragon Electric Company, Two Rivers, Wisconsin. "Gold Medallion" homes of tomorrow will have abundant electricity supplied by progressive firms like the Puget

Sound Power & Light Company. ■ This property is insured under the "multi-cover" plan

written by the St. Paul Insurance Co., St. Paul, Minn. Rib-Mat floor protection strips are of Visqueen film by Union Carbide Corp., Chicago, Illinois.

## century 21 plywood home of living light

Although such a house could not be built economically to-day; thanks to the vision of western plywood producers acting together through their independent quality control and research organization—the Douglas Fir Plywood Association—tomorrow, the interior and exterior pre-finished plywood walls of this home may be delivered in virtually endless rolls.

like bolts of cloth. The carpenter will cut off material for an entire wall section. These continuous wall panels, like corrugated packing paper, would be flexible in one direction so that they could be bent to undulating curves on the foundation. The curves themselves would provide the vertical rigidity to carry any roof loads. Thus one very thin composite

panel made up of plywood, a super-thin insulation plus interior and exterior finishes, would perform as a structural bearing wall; wall sheathing; and finish siding—entirely eliminating today's conventional stud wall framing.

Naturally, the plywood roof domes will arrive—ready to install

—via cargo helicopter straight from the fabrication plant.



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century 21 plywood home of living light neighbor.





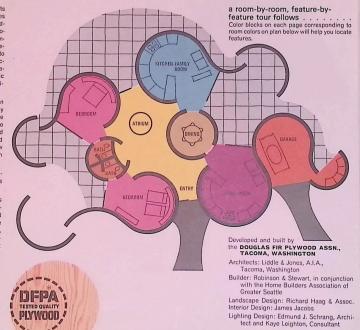
## century 21 plywood home of living light

This is not only a serious attempt to predict adjustments housing may make in the coming years, it demonstrates growing uses for wood and plywood regardless of how building and design may change. Undulating plywood compents in sheet form and advances in wood lamination promise new ways to achieve free-form design. Tomorrow's designer will be able to use wall shapes and room shapes to suit the function of individual rooms rather than adapt function to rigid shapes dictated by traditional methods and materials. Forms employing the flexibility of plywood were basic in the development of this preview of tomorrow's architecture.

Because land in the future will be at a premium, and garden maintenance undesirable, the home was designed to occupy most of the land available. To preserve privacy, the house is turned upon itself and the garden has moved indoors to the atrium -- a central all-purpose inner court borrowed from the ancient Roman townhouse. Privacy is achieved with continuous windowless walls and straight-line window and door components that open to private deck and garden views.

Exterior views are controlled through shrubbery and freestanding curtain walls. Ample natural light for interiors is captured by the gracefully vaulted plywood roof domes.

Although they are not now movable, these distinctive consecould easily be made to rotate as desired... providing complete natural lighting control and capturing a certain amount of solar heat to supplement the modern heat pump climate conditioning system. As the name of the home suggests, lighting effects... both natural and artificial... are an allimportant part of the overall design. Light is used throughout to create moods—just as paint is applied to a wall. The circular rooms make it easy to create unique lighting effects. They also make efficient use of space and free interior designers from restrictions inherent in square rooms.



Douglas Fir Plywood Association, Tacoma 2, Wash. Form No. 62-300A

The home's complete informality is offset to a degree by the landscaper's use of rigid formal planting of honey locust and poplars surrounding the home in ranks. The pleasing roughsawn texture of exterior walls and soaring roof domes is created with Plysawn Exterior-type plywood from Cloverdale Plywood Company, Free-standing screens around the house and flat roof areas are covered with colorful E. I. du Pont Hypalon, This rubberized material will last 20 years or more. The abrasion from thousands of shuffling feet attests to the durability of plastic coated Welchboard exterior plywood decking from West Coast Plywood Co.

The following leading American firms are exhibiting their products in this home. For further information on any of these quality products, send your inquiry to the firm at the address listed below.

American Cyanamid Co., Building Products Div., Cambridge 38, Mass.

Arterest Products Co., Inc., Chicago 20, Illinois Buffelen Woodworking Co., Box 1383, Tacoma, Washington Case Manufacturing Company, Robinson, Illinois Cloverdale Plywood Company, Cloverdale, California

Condon-King Company, Seattle 44, Washington Cutler-Hammer, Inc., Milwaukee 1, Wisconsin E. I. du Pont de Nemours & Company, Wilmington, Delaware.

Formica Corporation, Cincinnati 32, Ohio Gentronics Division of General Aquamatics Corp., Seattle 99, Wn.

H-P Products, Inc., Louisville, Ohio HAVAJAVA Manufacturing Corporation, Los Angeles, California Hotpoint Company, Chicago 44, Illinois

Kimberly-Stevens Corporation, New York 36, New York Lawndale Industries, Inc., Aurora, Illinois Lennox Industries, Inc., Marshalltown, Iowa

Marbon Chemical Division, Borg-Warner Corp., Chicago 5, Illinois Maryin Electric Mfg. Co., Los Angeles 21, California Medalist Hardware Division, National Lock Co., Rockford, Illinois Miami Cabinet Division, The Philip Carey Mfg. Co., Cincinnati 15, O.

Minneapolis-Honeywell Regulator Co., Minneapolis 8, Minnesota Modernfold Door, New Castle Products, Inc., New Castle, Indiana NuTone, Incorporated, Cincinnati 27, Ohio "The OVERHEAD DOOR" Corporation, Hartford City, Indiana

Pacific Northwest Bell, Seattle, Washington Paragon Electric Company, Two Rivers, Wisconsin

Phantom Bed Division, BHQ Corporation, Hot Springs, Arkansas Pittsburgh Plate Glass Co., Pittsburgh 22, Pennsylvania Puget Sound Power & Light, Bellevue, Washington Reichold Chemicals, Inc., North White Plains, New York Showerfold Door Corporation, Chicago, Illinois

Simpson Timber Company, Seattle, Washington St. Paul Insurance Company, St. Paul, Minnesota Tree Products Company, San Mateo, California United States Plywood Corporation, New York 36, New York Washington Steel Products, Inc., Tacoma 2, Washington West Coast Plywood Company, Aberdeen, Washington Weyerhaeuser Company, Tacoma 1, Washington

Wood-Mosaic Corporation, Louisville 21, Kentucky

atrium

This is the home's entry area, informal family room and traffic artery Bright cheery colors set the mood for what follows. An air of spaciousness begins at the Simpson Timber Co. full-height front door. Medalist locksets from National Lock Company help carry out the theme of the house here and on all Simpson doors throughout. The delightful indoor garden and tinkling fountain add a refreshing note and make an interesting contrast to the warm tones of Wood Mosaic Corporation's basket weave oak flooring. Natural light in the atrium comes through crystal-clear shatterproof acrylic plastic Skydomes from American Cvanamid Co. The home's

utility core is conveniently located here. New easy-to-clean Air-Flow louvered doors designed by James Flannian and manufactured by Buffelen Woodworking Co. fold back to reyeal matched Hotpoint Laundry appliances. Hotpoint's washer and dryer feature "Touch-Command" automatic cycle selection for any fabric. These appliances carry the industry's only 90-day quarantee of satisfaction and replacement. A free-form display of Simpson acoustical ceiling tile shows the beauty of this practical material. Tree Products Co. produced the unusual overlaid plywood Sculpt-a-grille entryway screens.



Here you receive your first striking impression of light from the overhead cones. The combination of flat ceiling and half dome within each room allows the daylight to enter without immediately revealing the light source. You will also notice conventional furniture, designed for square rooms, has been adapted to divide rooms by their function. For example, the bookshelf divides the sleeping area from the dressing and study area. A new concept in interior closet space is sugnessed, too, in the form of free-standing circular pluwood

storage units. These units, three feet in diameter, may be

moved about and are designed so that when additional storage

bedroom two

space is needed, more cubicals can be added. Lightweight Modernfold Doors travel on smooth running nylon wheels to provide access to these closets of the future. The long-wearing pre-finished hardwood flooring used here and throughout the home warrants examination. This is the Haddon Hall pattern by Wood Mosaic Corporation. The color is toast brown oak, its viny-allyd finish will last up to 3 or 4 times longer than ordinary finishes. The solid comfort of wood subfloors is provided by 2.4.1 plywood, a 1½" thick panel that combines the functions of subflooring and underlawnent, offering bis economies in building any home.

The Phantom Bed, the only wall unit offering the comfort of box springs, makes this room instantly convertible to a den or family room. Notice the bed linens and clothing in this room. They are made of Kaycel, a cellulose fabric from the Kimberly Stevens Co. Kaycel makes disposable linens and clothing a reality. Crystal-clear views of decks and gardens are through window-walls of Pittsburgh Plate Glass. You won't have to wait for Century 21 to see your party when you call by phone according to Pacific Telephone Northwest. A desk model Picturephone here, along with other futuristic phones throughout the home will soon be on the market.





# Wall-to-wall luminous cellings from Artcrest Products Co., provide even, shadowless light. Formica—a plastic laminate—decorates all wall surfaces including the shower and vanity for. The shower area, which could include a built-in.

tub, is accessible from both bathrooms through durable, maintenance-free Showerfold shower enclosures. Quiet operating Case Mig. Company wall-hung toilets and single lever lavatories and Nutone's combination wall heater and exhaust fan are featured here. Mirrors with medicine cabinets, towel bars and other accessories are furnished by the Miami Cabinet Division, Philip Carey Manufacturing Co.



Light is the dominant feature in the home's "Commandcenter." Orientation of the plywood root domes gives abundant morning light for cheery breakfasts. Artcrest luminous ceilings provide soft, shadowless lumination for kitchen work surfaces. The Island of plywood cabinets has a lifetime finish of beautiful wood grained Formica that creates the perfect setting for modern Hotplonit appliances which include: a Custom-Crest oven with built-in meat thermometer; a Town and Country drop-in counter range with rollsserie and a giant oven—both operating from dual control lowers. The dishwasher has dual, let Soray action and random roller racks that make loading far easier. The 18-foot Roll-Out, No-Frost refrigerator has swing-out serving shelves and can be moved easily from the wall for cleaning. Open hearth hospitality for now or the 21st century is provided with a Condonking prefabricated FireHOOD fireplace. The early morning grouch will bless the HAVAJAVA Mig. Co., Coffee Butler, This built-in produces a cup of fresh brewed coffee in just 12 seconds. The porcelain-on-steel sink with dial-flow single handle by Lawndale Industries carries a lifetime guarantee. The faucet will never drip because it eliminates troublesome askets, washers and springs. National Lock Co., hardware







enhances the clean, modern lines of the plywood cabinets. Although Nutone's products are planned to be unobtrusive, they play vital roles in the house. Nutone's No-vent range-hood fans, food center and barbecue all fold conveniently out of the way when not in use. The food center blends, mixes, shreds, slices and grinds foods: juices fruit and sharpens cutlery. A Nutone communication center pipes music, messages and the muted tones of the Nutone door chimes to every room of the house. Well-designed kitchen accessories from Washington Steel Products, Inc., provide aslese for everything in this kitchen from sliding flour sitters

and sugar dispensers to storage units for fruits, spices, pots, paper bags or garbage. All are easy and economical to install. Easy-to-clean Alsynite Biding cabinet doors from Alsynite Division, Reichold Chemicals, Inc., won't shrink, warp, chip, scratch or fade. The only visible evidence of the highly efficient Minneapolis Honeywell electronic air cleaner that removes up to 95 percent of airborne dust, dirt, pollen and bacteria from the air circulated through the home's heating system are the twin "Weather-Station" themostatic control panels in the kitchen wall. They give complete control of the two air conditioned comfort zones.



This is a formal dining room in the finest tradition, relying completely on overhead domes for exterior light to create an intimate atmosphere and stimulate conversation. Rich, durable vertically grooved teak paneling from United States Plywood Corporation helps create the overall effect. An exclusive 15-step lacquer finishing process produces its maintenance-free surface that requires only occasional wiping with a damp rag. The small wall-hung buffet here hints at the wast new field free-form home design would open to furniture designers. Notice also the sculptured appearance of interior surfaces created with flexible plywood sheets.





In this room color, light and form all combine to give you the full effect of living light. With repeated visits to this room at various times of the day or night, you could fully appreciate the subtle changes that take place from the time the first bright morning light comes through the domes until soft twilight. At night it becomes still another room with the walls and roof dome bathed in soft indirect light and other areas sharply accented from recessed fixtures. Spectacular pight lighting effects are made possible by Marvin Flectric Manufacturing Company who provided their Marco line of re-

cessed incandescent fixtures for the home

The radiant colors used in upholstering the built-in curved bench and circular conversation platform are a striking contrast to the warm friendly tones of Craftwall finish Choice American Cherry paneling from the Weverhaeuser Company. This paneling has an advanced carefree finish that not only enhances the natural beauty of the choice grain configuration. but makes the panel virtually indestructible. Use of freestanding plywood storage units provides an entertainment center and library-again demonstrating the flexibility of this type of storage. Unique use of carneting here and elsewhere in the house traces the shape of skylights.



Tomorrow's private transportation-whatever form it may take-aircar, helicar or turbine propelled four wheeler-will still be sheltered in a garage—but matched in futuristic concept by an automatic OVERHEAD DOOR Corporation garage door and electronic operator. The installation here resembles a section of clean wall more than a door and, at the touch of a transmitter, slides noiselessly into a false garage ceiling. Another touch of the button and the door returns to closed position and locks. This circular garage could very well incorporate a turn-table to reposition the car and eliminate backing into the street



### hidden servants

- A safe, reliable power supply is assured by the Cutler-Hammer "Safetybreaker" installation which cuts power to overloaded lines until the overload is corrected. Power is restored with a switch—no fuses to replace ever.
- Merely plugging in an Automaid electronic console allows the home owner to control all lights and appliances from any chosen location. This is a product of Gentronics Division of General Aguamatics Corporation.
- Plug a feather light hose into a convenience wall outlet and an H-P Products, Inc., VACU-FLO built-in vacuum whisks dust and dirt through hidden steel tubing to a super powered vacuum producer which vents odors, fine dust, noise outside.
- Lennox Industries' Heat Pump requires no conventional fuels such as oil, coal or gas to heat or cool the home. One small package, electrically powered, actually removes heat from cold air-without combustion, chimney or flues.
- Cycolac plastic pipe produced by the Marbon Chemical Div. Borg-Wagner Corp., helped cut on-site labor costs in the home. The pipe will not corrode, resists heat and cold, its smooth interior surface will not build up deposits.
- Comfortable, flattering light levels are maintained throughout the home with Minneapolis Honeywell's smart, modern switches and "Socialite" light regulators.
- Twenty-four hour control of exterior lighting is achieved with Paragon Electric Company timing controls, Any circuit or appliance can be automatically cycled with this equipment.
- This property is insured under the "Multi-Cover" plan as written by the St. Paul Insurance Company, St. Paul, Minnesota.
- This "total electric" home has been awarded a Gold Medallion by Puget Sound Power & Light-the company whose continued research will assure tomorrow's Gold Medallion homes in the Northwest an abundant supply of low-cost electricity.
- These organizations also cooperated in bringing you a glimpse of home life in Century 21:

United Brotherhood of Carpenters and Joiners, Seattle, Washington. Western Council Lumber and Sawmill Workers, Portland, Oregon

## century 21 plywood home of living light

■ what miraculous material? Plywood . . . real wood engineered into its most useful form is the miraculous building material chosen for use in the Century 2! Plywood Home of Living Light. It will never rust, or corrode. It resists dents and punctures and will not split. Exterior-type plywood's glue line is unaffected by weather. Plywood insulates against heat and cold. Pound for pound it's stronger than steel. Further—it is one material that anyone can work easily and feel at home with, From the solid, comfortable 24.1 floor to the outermost skin of the soaring roof cones that trademark the home. Delwood is the basic building material.

Come Century 21, plywood shows promise of being even more useful in turning dreams into reality for every family. Far-sighted western plywood manufacturers are working to-day, through the Douglas Fir Plywood Association to develop new plywood products and plywood building components that will change the shape of tomorrow's home. The Douglas Fir Plywood Association is an industry-wide organization that provides quality control, applied and product research and trade promotion services for more than 85 percent of western plywood manufacturers. DFPA's pionering work in the field of component construction is evolving toward.

the day when a contractor may very well order the wall and floor sections for a home like this by the square foot—specifying square footage and wall radius. These large panels would be pre-finished, including a thin insulation and interior and exterior finishes—perhaps even pre-wired and plumbed. Thus, one very thin composite panel would be preformed to follow the undulating curves of the foundation. The curves themselves would develop the vertical rigidity to carry any roof loads. Today's conventional framing would be simplified and the whole structure lightened. The plywood roof domes will arrive—ready to install.

