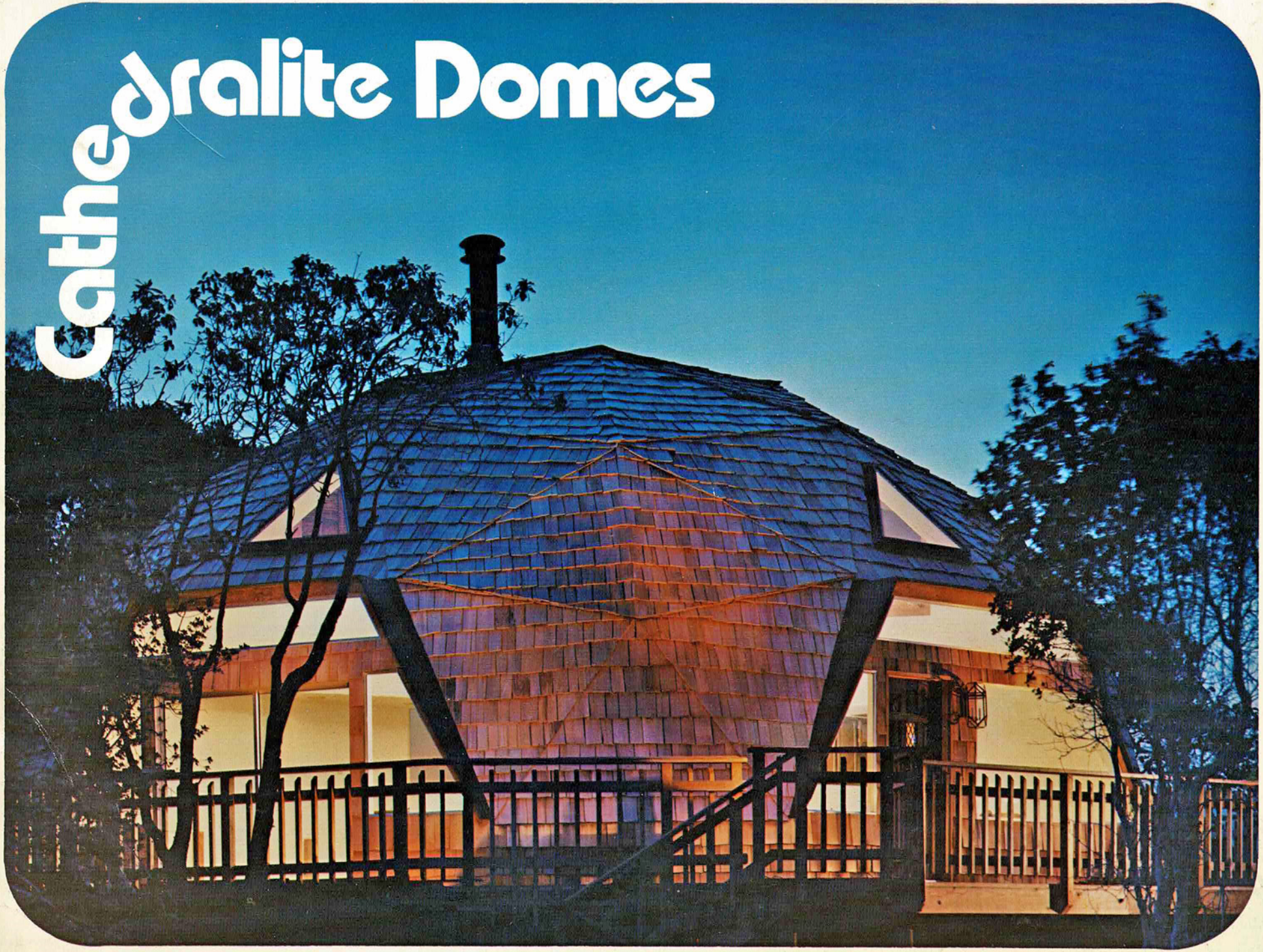
Cathedralite Domes



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Brochure Design—Another Graphic Design Group

Dear Customer,

Cathedralite would like to thank you for considering our concept in your building plans. You have selected the best housing product available in todays market. One of the many reasons we have been able to stay on top is our unparalled service expertise. Because Cathedralite has been in existence since 1966, and because we are the worlds largest wood geodesic dome manufacturer we can offer you more dome building experience than any firm available.

At any stage of your project we will be available to assist you in planning or implementing the steps necessary to complete your dome.

We encourage you to compare our product and services with others. We feel confident that once you do, you too will see that Cathedralite is the unparalled leader in todays dome building industry.

Thanks again for looking into Cathedralite Domes.

Best Regards,

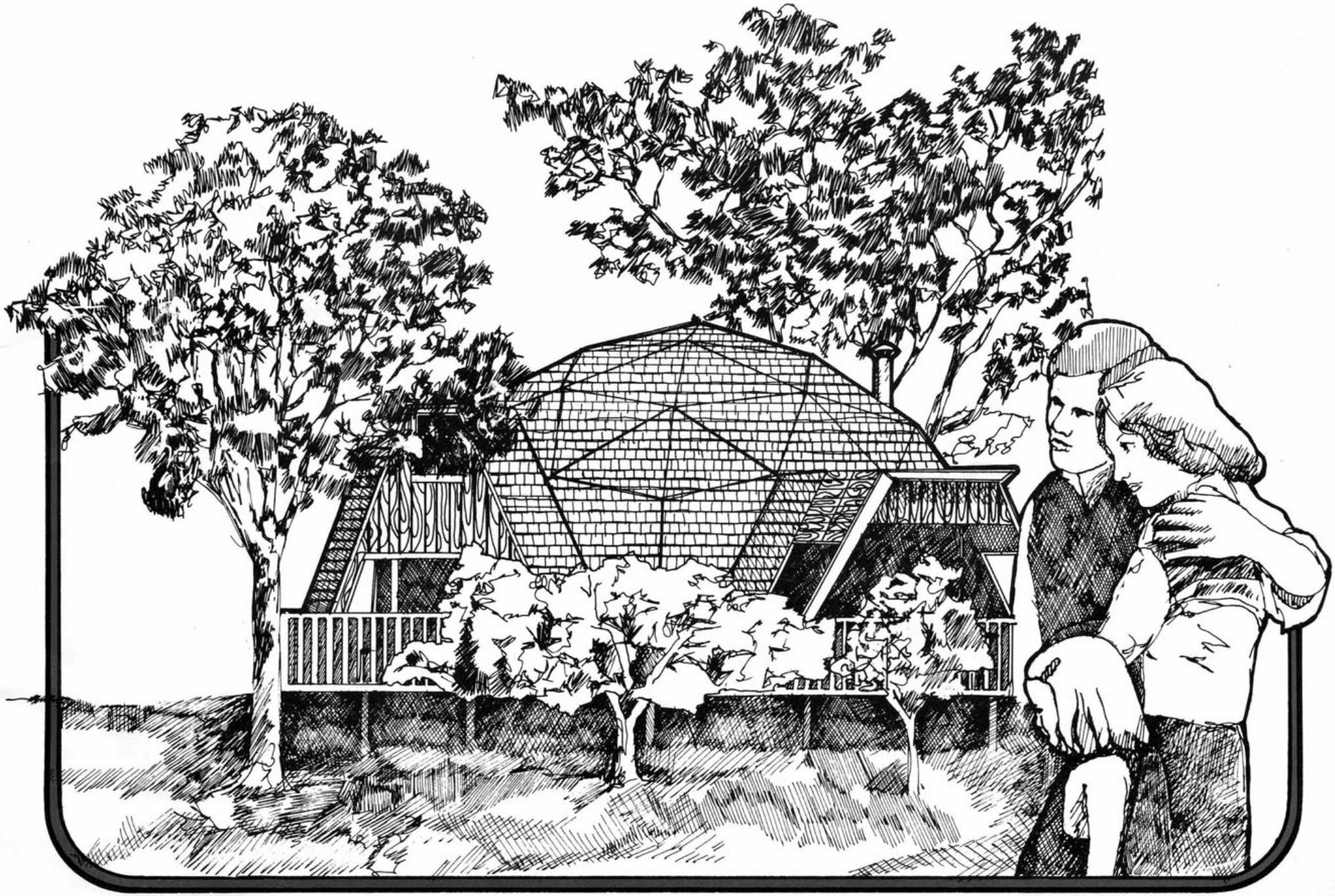
THE CATHEDRALITE PEOPLE

P.O. Box 880 Aptos, California 95003 (408) 684-0774

Life in a Round House

Cathedralite Domes

lets you enjoy life. Get the comfort, distinction, protection, and investment you've been looking for in a home...

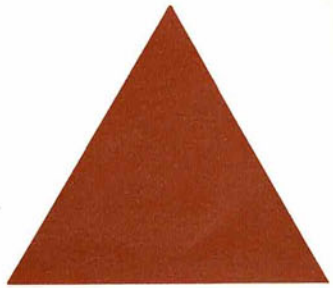


The most advanced building concept to date:

As most people know, a rectangular shape is inherently weak. Connect four pieces of wood into the shape of a rectangle, and apply pressure to any given point. Notice that it flexes under the pressure. Now, remove one of the pieces and form a triangle. The strength and rigidity are remarkable by comparison. The triangle, using less material, is twice as strong!

The triangle is the basic element in Cathedralite Dome construction. Triangular panels, kiln-dried, pre-cut and engineered at our factory are designed so as to form a precise sphere, providing you, the home buyer, with the most efficient and striking structure available.

The unique design permits the pre-cutting and packaging of the structure at our factory and allows for easy shipment to building sites anywhere in the world.



The strength of a triangle:

The triangle is the basic design of the geodesic dome as conceived and engineered by designer, engineer, environmentalist extraordinaire, R. Buckminster Fuller. As with most great discoveries, the principle is remarkably simple. Triangular panels are used to form a spherical dome that eliminates the need of load-bearing and expensive support walls.

The power of a circle:

Nature provides us with ample evidence of the power of the circle. For instance, our sun is a spherical mass which provides all the basic elements of life on earth. Rain drops fall to earth in the least resistant shape, the circle. The winds' greatest strength is when it comes in the shape of the circle. Even a tree trunk or the curvature of the earth are examples of the prowess of natures spheres.

Now this principle of design has been captured for you for use as a home.

The efficiency of a dome

Every architectural school in the land teaches the incomparable efficiency of the geodesic dome. There is little room for argument when one compares the use of wood and energy of the dome to that of conventional designs. The dome far surpasses any other building type in its numerous advantages and only in the last few years have builders and designers taken a closer look at this remarkable concept.

The result has been virtually perfection in every stage of design and construction. From the triangular components to the completed circle—efficiency is the rule.

Comfort

Air circulates more freely within the spherical shape of the dome. Dead air pockets and cold corners are virtually eliminated with the dome, thereby permitting the recirculation of heated or cooled air in the structure.

The Cathedralite Dome can be heated or cooled for thirty to fifty percent less than a rectangular structure of comparable size, allowing you a comfortable, even-tempered environment at low cost.

Your senses will enjoy how a Cathedralite Dome blends harmoniously and naturally into the character of it's setting whether it be a mountain side retreat or a city street. Pleasing to the eye from within and without by the very simplicity of the spherical curve, a circle is the most satisfying design in all of nature.

Distinction

A glimpse at some of the illustrations or pictures in this brochure will verify the unique and beautiful designs of a Cathedralite Dome. If you've been fortunate enough to visit a friend's dome or a live-in model, you will agree that it's flowing and harmonious design is indeed one of the most attractive structures you've seen. To many it is, in fact, the most beautiful home ever built.

Enjoy the distinctive experience of living in one of the world's most beautiful structures.

Protection

An outstanding by-product of the engineering superiority of a Cathedralite Dome is it's truly incredible strength. Combining the inherent strength of the triangle with the quality of wood used in it's construction, you will find a component unequaled in durability and rigidity. The triangle is completely pre-panelized or pre-assembled using both the highest quality materials and the world's best workmanship.

Contractors and carpenters marvel at its consistently flawless nature. This is a result of closely supervised quality control procedures regularly inspected by an ICBO-approved independent testing agency. When these triangular space frames are bolted together on the day of your dome-raising, the structure created is without doubt the strongest building per weight and wood usage in the world. Pressure applied at any point is distributed equally throughout the dome. Since it is completely self-supporting, applied pressure, whether it be snow or wind, actually makes the building stronger, providing a safe environment for you and your family.

Investment

Whether you look at the initial construction costs or the year-to-year maintenance, a Cathedralite geodesic dome is more economical per square foot of living space than any building you could possibly construct. The concept itself is economical. You cover a given floor area with less materials and consequently have less interior surface area to heat and cool. Costly fuel consumption is reduced by an average of thirty per cent.

Because the dome shell bolts together in only eight hours, you save days of expensive labor. To reach the same point in conventional construction you would need approximately six to twelve days and considerably more lumber to attain a structurally inferior product.

There is virtually no siding maintenance because the roof is the siding. If your present home requires frequent siding care, you may be spending needless dollars on paint and upkeep.

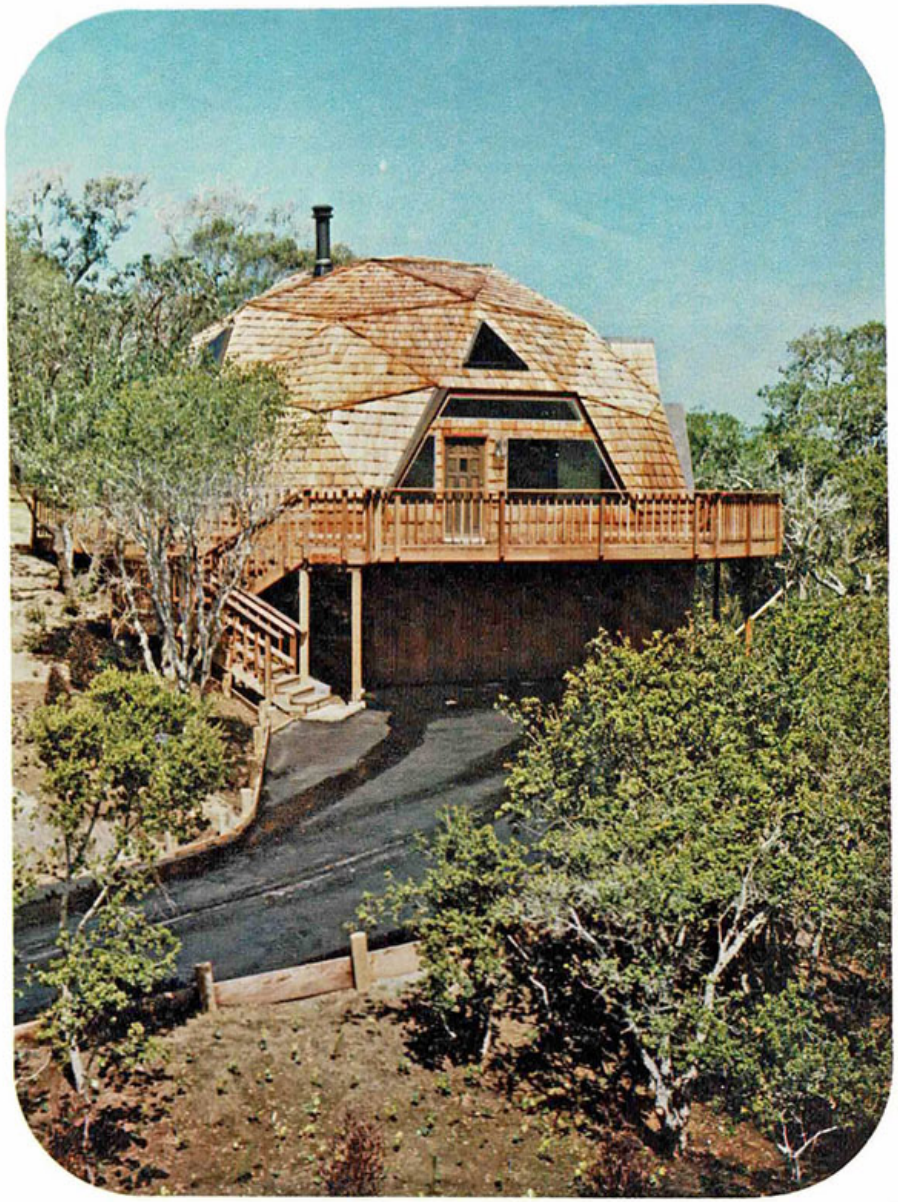
With today's inflation and omnipresent energy and environmental concerns you can hardly ignore the advantages of a Cathedralite Dome.

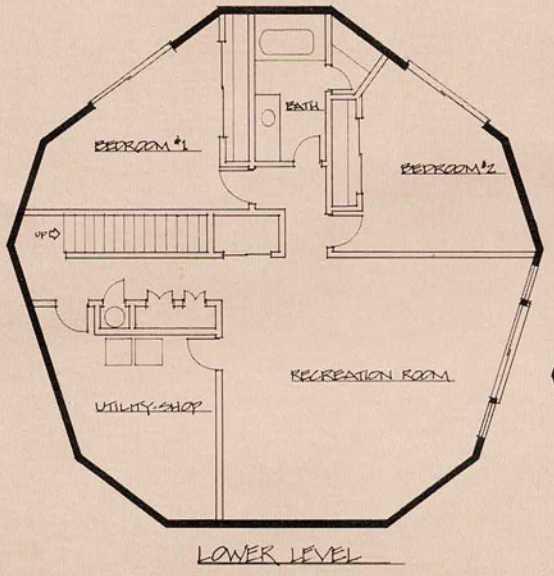
Cathedralite 45' Dome

Truly a spectacular structure. If you want a large home at a comparatively inexpensive price, the 45' dome could fill your every need. This building begins with 1500 square feet of floor space on the first floor. It can easily be advanced to 2200 square feet or more by utilizing the second floor. You can do this while maintaining a huge open ceiling with strategically located skylights.

Nowhere in the architectural world can such efficient use of materials be better exemplified. You can design your floor plan and openings to compliment your building site and building needs in a way no other structure can provide.

Cathedralite Domes enthusiastically recommends this model to anyone in need of a spacious home. And believe us, it is spacious. Home builders around the world marvel at its size and beauty. Call now to see one of our models in your area.





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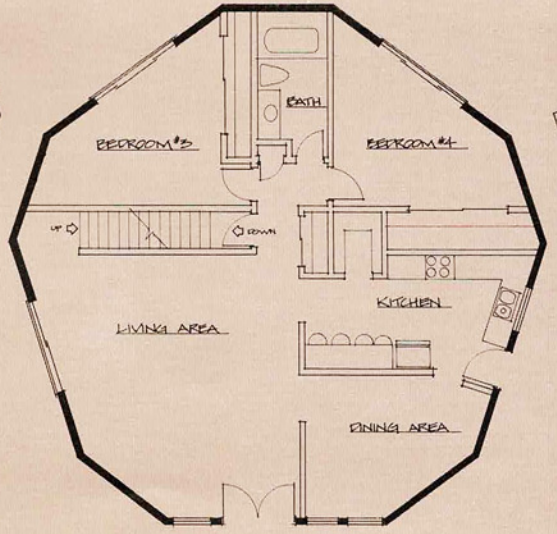
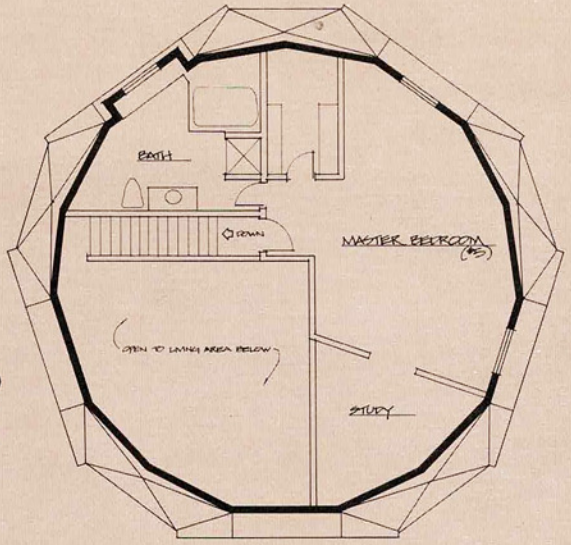
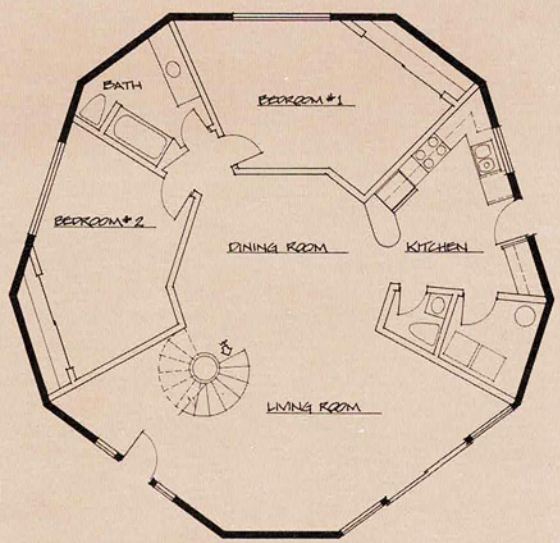


MAIN FLOOR



UPPER LEVEL

45′ Dome **Plan B**
ODYSSEY V



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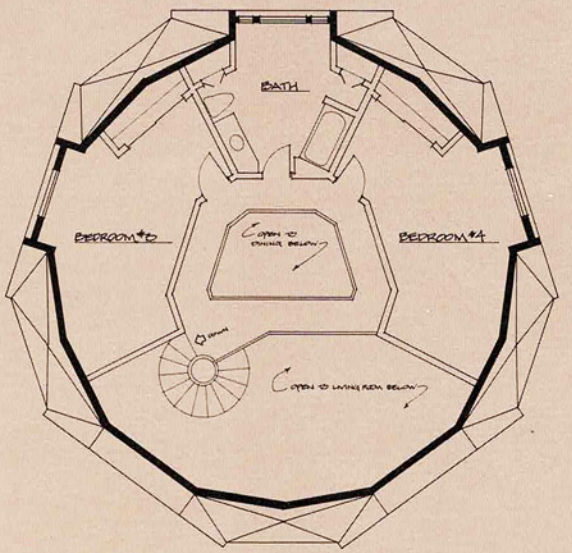


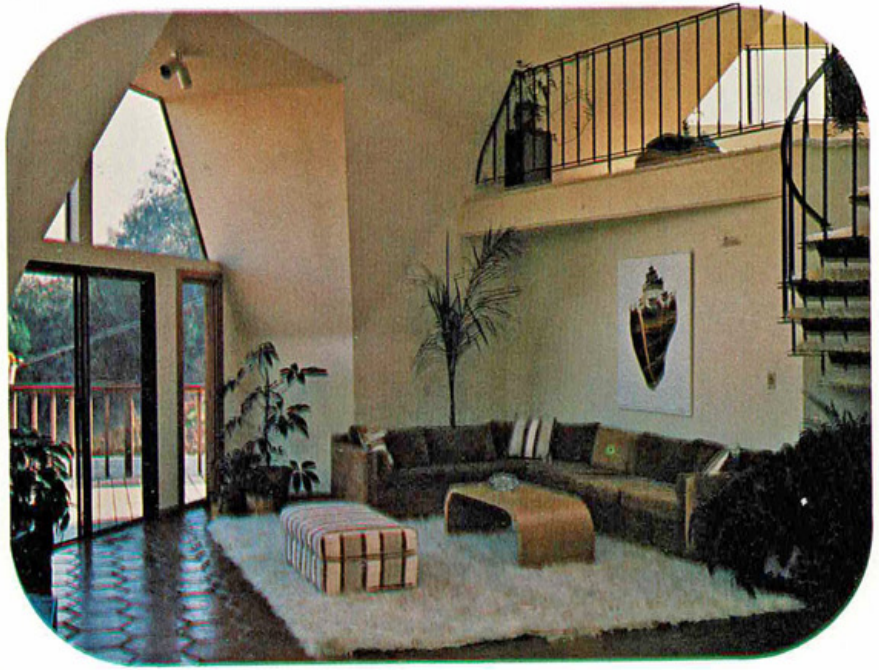
UPPER LEVEL

45′ Dome **Plan A**
ODYSSEY I

See inserts for additional Dome plans

45'Dome Interior

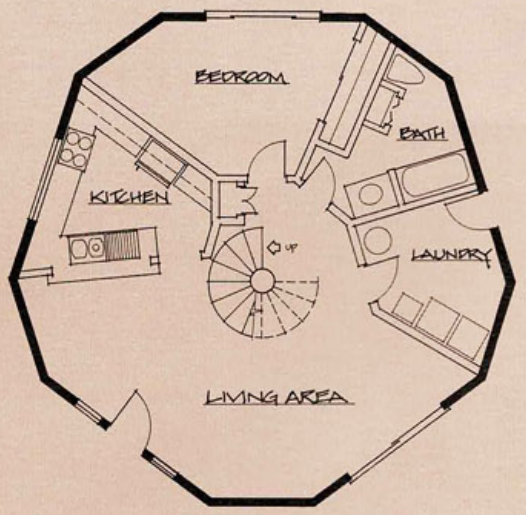
The 45' Dome can be designed in a number of ways. For instance, if bedrooms are what you want, this structure could have as many as 5 to 6 bedrooms, plus your normal living area. Even though the diameter and square footage figures are quite large, they never-the-less understate the volume this building encloses. You'll be pleasantly surprised at the massive open areas and the efficient use of every square foot.



Cathedralite 35' Dome

This dome is the beginning of the size range for families of three or more. With over 800 square feet on the first floor and an easy 300 square feet or more upstairs, it lends itself well to a two or three bedroom size structure.

Many families feel the need to limit their floor space to save on precious energy and building materials, while maintaining the comfortable life-style to which most of us have grown accustomed. If this is your situation, or if you feel the 35' is your size, Cathedralite Domes can provide you with all the information and specifications Call or write our office now. We will be glad to give you additional information.



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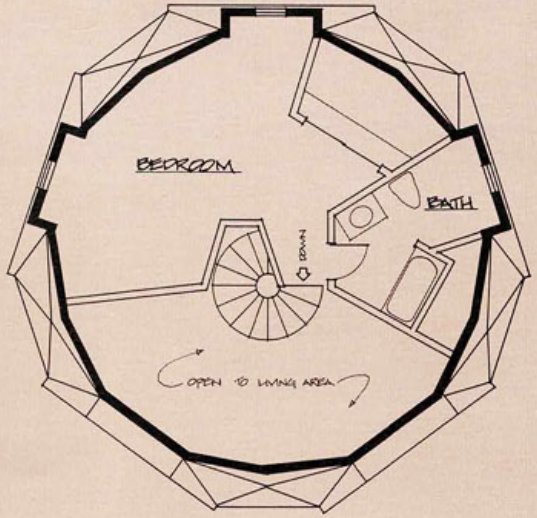
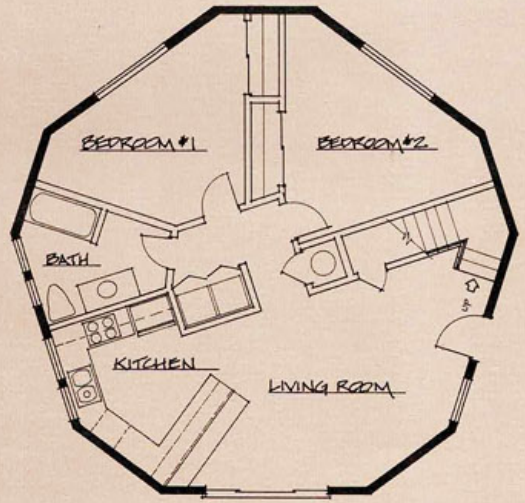


UPPER LEVEL

35′ Dome **Plan A**
CUESTA I



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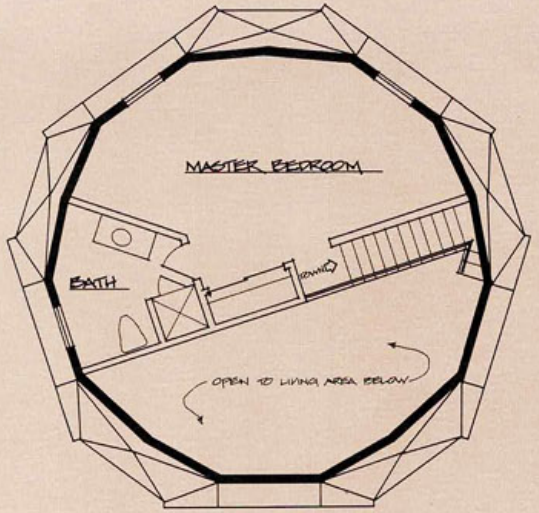


UPPER LEVEL

35′ Dome **Plan B**
CUESTA II

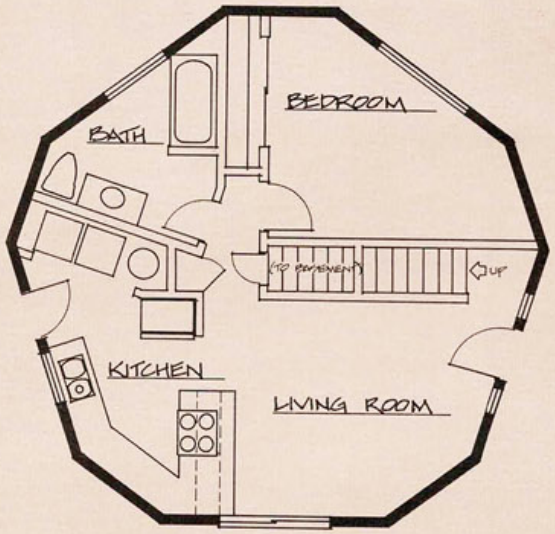
See inserts for additional Dome plans

Cathedralite 30' Dome

Whether it be a mountain cabin or your primary home, the 30' Dome combines total economy with a beautiful retreat.

This dome is perfect with a one bedroom floor plan. And for two or three persons it is unmatched in its space efficiency.

The first floor provides you with over 600 square feet and a loft of 200 square feet or more for storage or a place for the guests and kids. It might be just the size you need. See us soon about this economical dome.



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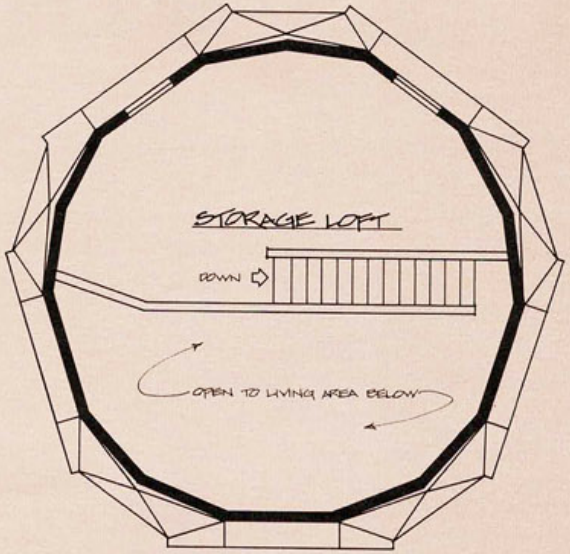
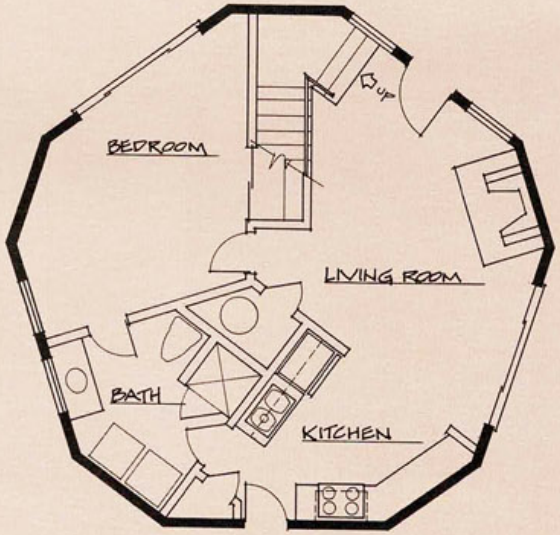


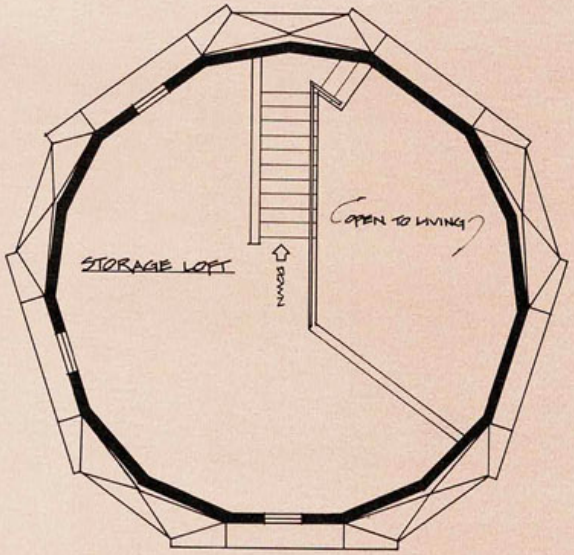
UPPER LEVEL

30′ Dome **Plan A**
DEL MAR I



LOWER LEVEL

30′ Dome **Plan B**
DEL MAR II



UPPER LEVEL

See inserts for additional Dome plans

Cathedralite 35' Vista Dome

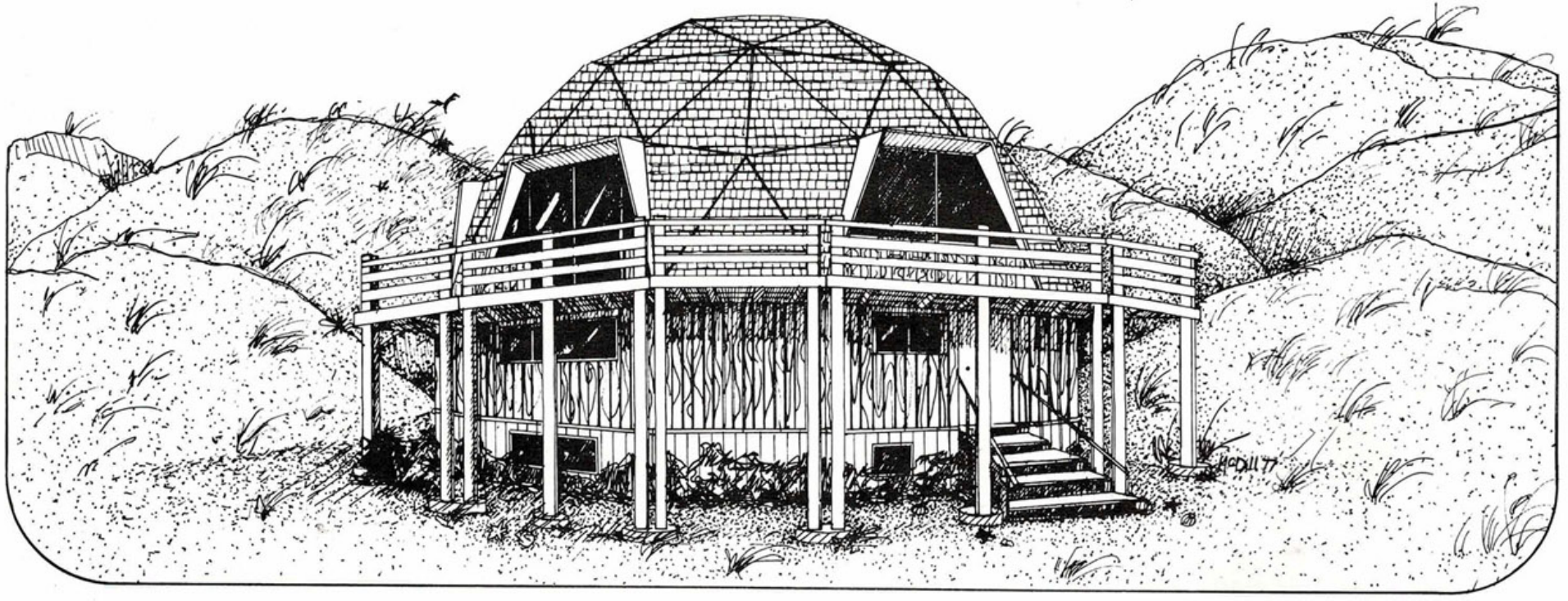
The Vista Concept is undoubtedly one of our finest creations and for the owner-builder it is a definite must.

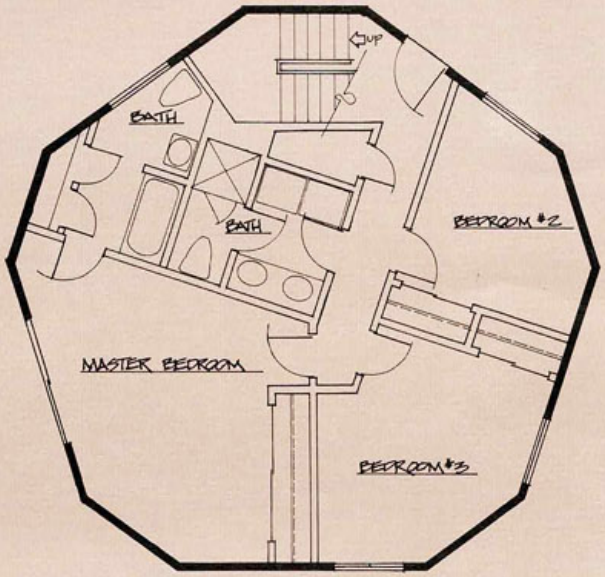
Basically what the "Vista" concept entails is a pre-framed and ready-to-stand first floor, the dome kit, main floor joist and sub-floor, lower level interior walls ready to stand, and a partition-free dome area living space. Take a look at the floor plans on this next page and you'll get an idea of what we include.

The fundamental advantages of this concept are; 1) It's ready to stand wall arrangement, 2) Easy to sheetrock interior, 3) Low-cost.

In the rear section of the brochure you'll see a technical sheet which spells out in detail the complete list of items this kit includes. Or, if you want a verbal description contact your nearest Cathedralite Distributor or Building Consultant. We'll be happy to give you all the information you need on our Vistas or any other model you might desire.

This does not include **any** part of the foundation. The main floor joist and sub-floor indicated above for the **upper** floor only.





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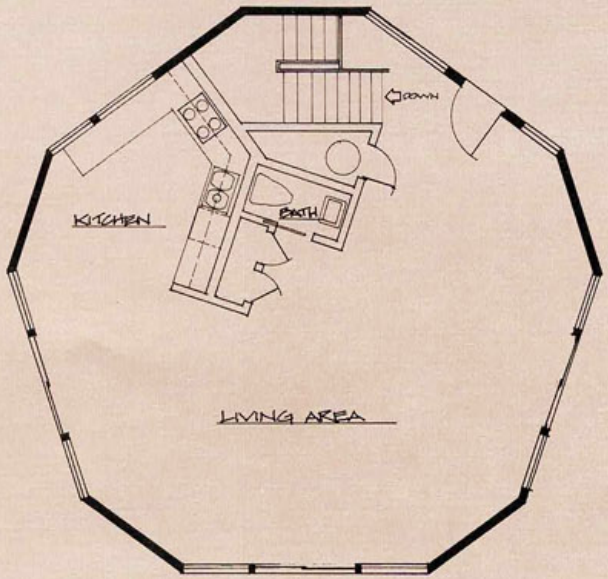


UPPER LEVEL

35'Vista Dome **Plan A**

VISTA 35'

See inserts for additional Dome plans

Cathedralite 30' Vista Dome

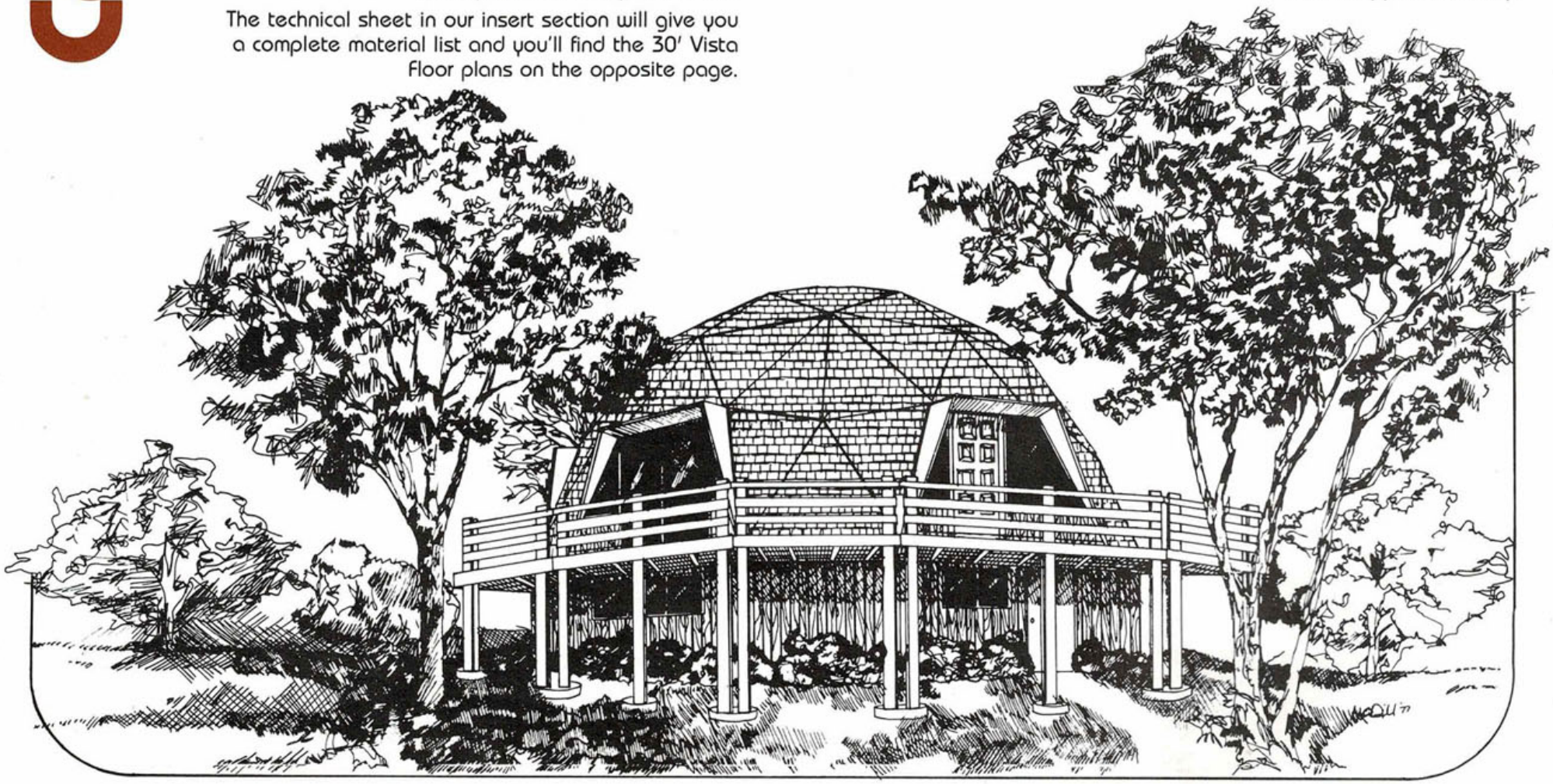
Again, the vista concept is one we're all quite proud of. If you take a look at what this kit includes we think you'll find it a very efficient approach.

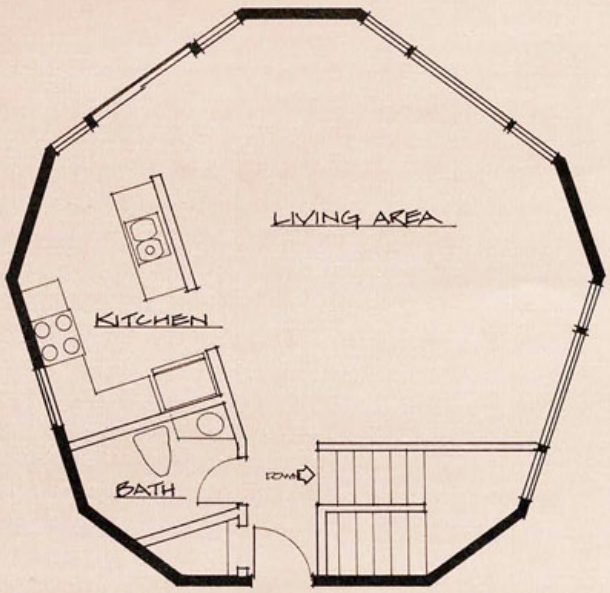
It includes the same design and technical features as the 35' Vista. That is, you'll get the dome shell, a completely framed lower level, (interior and exterior walls) plus subflooring, stairs, etc.

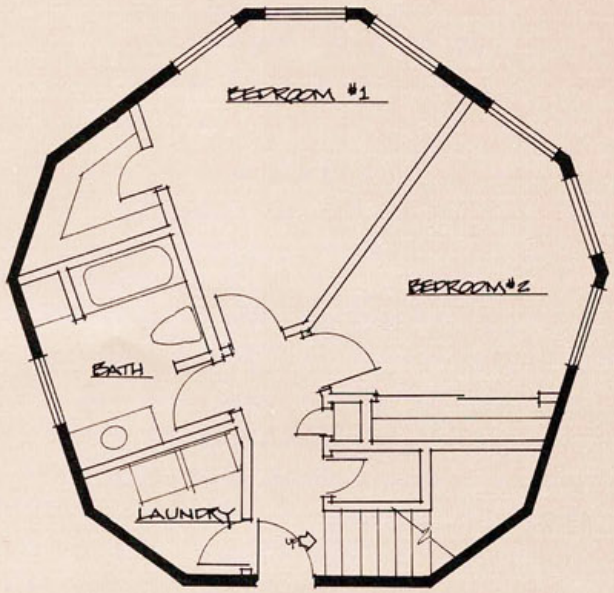
The technical sheet in our insert section will give you a complete material list and you'll find the 30' Vista floor plans on the opposite page.

If you think you would like to have this personally described by someone who knows, please feel to contact your nearest Distributor or Building Consultant from our main office.

This does not include **any** part of the foundation. The main floor joist and sub-floor indicated above are for the **upper** floor only.







30′ Vista Dome **Plan A**

VISTA 30′

See inserts for additional Dome plans

Commonly asked questions:

THE CATHEDRALITE DOME KIT

What is a Cathedralite Dome? It is a geodesic dome made by joining triangular space frames to make a circular building. All parts in the dome are straight, using no curved surfaces. Triangles are formed of 1/2-inch plywood skin, glued and stapled to kiln-dried fir spars, forming a space frame. Frames are prefabricated at our factory and shipped ready to bolt together. The average space frame weighs approximately 75 pounds.

What type of materials are used? We use only the finest materials available. The 2x4 studs are kiln-dried clear select doug fir, milled and edged to a fine precision to make sure the dome fits tightly and snugly in every aspect. The plywood sheeting is 1/2" CC Structural # 1 Full exterior—again, the very finest material available.

The plywood and 2x4's, once cut, are assembled by our factory crew, using nails, staples and Marine Resourcinol Glue. The result is a triangle that simply cannot come apart. The bolt holes are pre-drilled at the factory to insure perfect alignment when the dome goes together.

What is included in a Cathedralite Dome Kit? Your kit consists of sixty pre-assembled wooden space frames and all necessary bolts, nuts, washers, canopies, and straps to fit the triangles together, forming the shell of your structure. This allows you or your contractor to customize the interior and exterior to your own specifications. Complete step-by-step instructions are enclosed with the package.

Is the dome kit a complete house? No. The dome kit is strictly the shell of your building, and the interior is built on a custom basis by one of our distributors, our building crews, the owner or by a builder of your choice. Our main office can answer all questions you might have concerning the finished dome.

CATHEDRALITE DOME LIVING

What are some suggested ways to heat the dome? Perimeter systems, baseboard system, radiant heat in the slab, pre-fabed fireplaces and solar systems can all be used.

Panel-ray heaters, floor furnaces, and forced air systems have also been used successfully. In the Cathedralite Dome, any method you might choose requires much less heat than conventional type structures.

All types of heating and cooling systems are more efficient in your dome than in a conventional structure. The most widely used is a natural gas, forced air system. However, this is only practical where there is inexpensive access to natural gas. If this is not possible, we suggest an Inter-Therm water baseboard system or solar ray heaters. It is a low cost system to install and for the electric type, usually less expensive.

Check with your local heating and sheet metal man for specific current prices.

Why do Cathedralite Domes cost less to heat and cool? The circular shape covers a given area with less materials than the rectangle. Heating less surface area requires less use of costly energy to provide a comfortable living environment. In the box-shape house, air tends to get caught in corners while in the dome, it is free to circulate freely, resulting in less fuel consumption.

How does a dome stand up to rough weather? Snow loads are easily handled by the strong dome construction, since it is the strongest structure of its weight-class. Each size has been tested and approved with loads up to 120 pounds per square foot, without any structural failure. With added engineering, much greater loads per square foot are possible.

As for wind factors, the Cathedralite Dome because of its unique shape, does not generate a low pressure area to the lee of a building during a high wind. Therefore, no wind feel, or wind noise.

Can I design my own floor plan? Yes. In fact, most Cathedralite Dome buyers do so, since they have no support walls to restrict their individual ideas. Place your room partitions wherever you want them. If you need technical assistance in completing your individual plan, consult our planning department for a personalized service based on a minimal hourly fee for the preparation. Let us help you have exactly the home you want, the way you want it, for less money than you ever expected to pay for a custom home. See our insert section for the Cathedralite Dome plan policy.

What have Cathedralite Domes been used for? Residential homes, vacation homes, sales offices, classrooms, architect's office, motels, park shelters, rental units, cabanas, lodges, church pavilion, infirmaries, drive-ins, highway construction offices, amusement buildings, coin-operated dry cleaning, special display buildings, golf shelters, storage buildings, club houses, farm buildings, ice rink shelters, low cost housing, amusement park game booths, skeet range shelter. The overwhelming use is for primary residential homes.

How do I insulate my dome? Insulation is now required by law. A measurement of the ability of a particular substance to retain heat or cold is called the R-Factor; the more resistance to temperature change the substance has, the higher the R-Factor.

State and Federal laws now require an R-Factor of 11 for walls, and 19 for the roof. You can easily insulate to higher R-Factors by using different types of insulation.

There are many types of insulation you might employ. The most efficient step to make is to contact some local builders in your area, various insulation dealers, and/or other home owners and find which type of insulation is being used and which type will work in the area that you must insulate. Price, fire rating, and conformity to building codes are the most important things to consider. Cathedralite Domes is constantly seeking out the most efficient types of insulation and if you need updated information, please write to our Aptos office.

One point to bear in mind is that if you are considering going to the maximum degree of insulation you should also consider thermopane windows because it adds tremendously to the overall heat loss efficiencies of your building.

How can I build a Cathedralite Dome home?

This section of the brochure is designed for someone who is planning to build, or to have built, their own custom dome. Its purpose is to assist you throughout the various stages of planning and construction. Coordination of these phases is vital to save you unnecessary costs and delays.

For someone with or without previous construction experience a Cathedralite geodesic dome is the easiest owner constructed custom home to build.

Any custom home, whether it is a dome, or a conventionally designed structure, is built expressly for you. For this reason, it will be somewhat more time consuming—and **more valuable** than any tract type housing.

Cathedralite can help you save time and reduce costs. By following the steps on these pages you can plan, pay for and participate in one of lifes most rewarding experiences—the construction of your very own dome.

1

Select a piece of property of the terrain and location suitable to your needs and within your building budget.

2

Choose from a variety of floor plans and building specifications (available from Cathedralite Domes for a minimal fee). Plans need to include foundation details, dome erection sequence, room or partition arrangements, and other construction details.

3

Submit your plans and specifications to your local planning department to obtain your building permit.

4

Once you have obtained your property, plans and permit, order your dome kit. This may be done thru our local distributor or directly from our home office in Santa Cruz, who will then make arrangements to have your kit shipped to your building site.

Necessary arrangements can be worked out with either your local distributor or our main office. Paper work can be handled by mail or in person.

Cathedralite Domes has trained and experienced personnel ready to assist you at any stage of your home planning. Please call at any time.

Note: Because of the backlog of orders and the continually rising prices, most people prefer to purchase their dome kit as soon as they have decided to go through with their project. Cathedralite Domes can then store the kit for up to one year at no charge; shipment guaranteed at any time with a 2 week notice. (Minimum 50% down at time of order.)

FINANCING METHODS

1. The simplest and least expensive way is to finance it yourself. You can take advantage of cash discounts given by contractors and material suppliers. These discounts range from 2 percent to 10 percent. You also have the option of being your own general contractor, which can mean an additional savings of 10 percent to 20 percent of construction costs.

Once the structure is up, you can contact a bank, savings and loan or other lending institutions to provide the long term financing (When banks provide the construction money, they usually charge 1 percent to 5 percent of the total amount borrowed as a fee for processing and inspection of your construction; plus the going interest rate on the sum borrowed.)

2. Standard Construction Loan. To apply for this type of loan, you must own your property free and clear. You usually need a licensed contractor to be responsible for the completion of the project.

You must submit to the bank the exact specifications and plans for loan appoval.

This method makes it somewhat more difficult for an owner to do very much of his own work. The reason for this is that the contractor must be responsible for completion of the work. Therefore, the total amount of the loan must reflect the price of having the contractor do **all** the work, with the contractor refunding to you the unused funds, to compensate for the portion of the work you are able to do yourself.

3. If you have enough cash to complete a substantial portion of the building, you can try to obtain "short term" money from your local bank or personal sources.

Once the house is completed, you can then apply for traditional bank financing to pay off your short term loans. By doing this, you can save the construction loan fees, which are often higher than short term interest charges.

This also has the same advantages as building with cash. That is, you can take advantage of the cash discounts, you can still be your own general contractor.

Creative Financing—If these three general methods do not meet your financing criteria please contact our main office to find out if one of our Building Consultants can arrange or suggest another approach.

If you have further questions, please contact us for information.

If there is a Cathedralite Distributor in your area, he will gladly give you a bid on any construction work you may need to have done. If there is no Cathedralite Dome Distributor in your area, please feel free to contact the head office directly.

We strongly urge that, if you have the time and energy to build your own home, with our technical assistance, you do so.

The savings and lifelong satisfaction make it a rewarding experience.

PRE-CONSTRUCTION REPORT

If you would feel more secure having an experienced Cathedralite representative oversee the initial phases of your project, we can help you by providing the following services:

At your request, a representative will make a physical asessment of your property and/or financial qualifications. This includes a thorough inspection of the building site, recommendations of foundation type and dome size and placement. We will also review your title report for any discrepancies and contact your local building department to investigate any local ordinances.

These services are provided for a minimal fee plus travel expenses, but the fee can be applied toward the purchase price of your dome. If you do not purchase a dome, the fee would be non-refundable.

Ask one of our Building Consultants to explain this Pre-Construction Report to you. For most people it is an absolute must and can save you thousands of dollars over the course of your project.

BUILDING SEQUENCE

1. Pre-Construction Report;
2. Order Dome & skylights
3. Plans and financing;
4. Building permits;
5. Clear and grade land;
6. Foundation and rough (basic) plumbing;
7. Duct work, if any, for heating and cooling systems;
8. Deck;
9. Dome erection;
10. Frame openings (frames for windows and doors);
11. Frame interior walls;
12. Finish rough plumbing and rough wiring;
13. Order doors and windows;
14. Fireplace flashing, plumbing vents, etc.
15. Install doors and windows, siding or exterior finish;
16. Install skylites
17. Roofing;
18. Insulation;
19. Sheetrock or interior finish woods;
20. Paint
21. Finish electrical & plumbing
22. Buy and set cabinets, interior doors, finish carpentry work (Window sills and baseboards);
23. Paint;
24. Tile;
25. Carpet.

These vary somewhat from project to project, but nevertheless are a good indication of how things normally develop on any given job.

It has now been recognized as a primary dwelling by the majority of lenders. Its wide use and popularity of residential dwellings as well as for major designs such as the Astrodome are evidence of its acceptability by banks, insurance companies, and others in the money market.

What is a Geodesic Dome?

For the past few years many persons have been exposed in various ways to the generic term "geodesic dome." However, most persons are quite uninformed about a concept which in some way affects each and every one of us.

Early architecture tells us that the "free span" or "arch" theories have been around for hundreds and even thousands of years, but it took the 20th century genius and friend of the world R. Buckminster (Bucky) Fuller to invent the geodesic dome and make it a practical, working concept.

The term "dome" when used alone can be defined as an anticlinal structure of circular or broadly elliptical form, but by prefacing it with "geodesic" it takes on a more technical and indeed a more intriguing air. Geodesic means designating the shortest line between two points on a surface. Thus, when we use the term "geodesic dome" it can technically be defined as, "an anticlinal structure of circular or broadly elliptical form designed by utilizing the shortest line between two points of any given surface." The surface in this instance being individual triangles of various sizes engineered and constructed in such a manner that the overall structure is spherical or in more appropriate jargon, "dome shaped."

We can then say that a geodesic dome is the use of triangular space frames to form a spherical structure used in place of, or in addition to, the more conventional rectangular design.

Mother nature is no doubt the true inventor of domes and if we look around we can fine endless examples of her prowess as an architect of domes. Caves, vaulted branches of trees and even a bubble of air in liquids are domes we have all seen or dealt with. Domes exist even in the molecular make-up of our body cells. If you could see them with the naked eye, you would be surprised to find out you already live in a dome home.

The story of geodesic domes began when Bucky Fuller found himself infinitely frustrated by certain aspects of geometry as it was being taught during his early education. Things like non-existent points, planes, and lines being presented as "real" bothered him. Was this geometry man-made, was it a natural thing, or did nature hold yet a special kind of geometry yet to be discovered? This question haunted him through his academic years and beyond. Strange, never-ending constant numbers like pi (3.14159) seemed unnatural to him.

Bucky began to use small spheres of the same size to build models, seeking to answer some of his own questions. Starting with a central sphere he encircled it with six more, each touching the first; he found that only three more on each side of the six could be added and still all touch the central one. He felt as though he had stumbled onto something new in the laws of nature. But what? Adding a second layer to completely cover the first always took exactly forty-two spheres. Ninety-two spheres always completed a third layer. In trying to put a name on this discovery, he found the most obvious to be "The closest packing of spheres."

Unknown to him, at about the time of his birth a scientist by the name of Barlow had suggested this principle in describing the structure of crystalline forms of matter, including table salt. At about the time Bucky was experimenting with spheres, Sir William Bragg, an English physicist, was trying to discover crystalline structure by means of X-rays. Bragg and Bucky had found the same kinds of patterns.

Further work with "the closest packing of spheres" led Bucky to the discovery that he could predict the number of spheres in a closest-packing model by the use of a simple mathematical formula:

"10 x (the number of layers)^2 + 2 = the total number of sphere.
Thus, for the first layer:
10 x $(1)^2$ + 2 = 12
For the second:
10 x $(2)^2$ + 2 = 42 and so on." [1]

These numbers seemed more natural to him. He then set to work figuring out the geometrical planes that would just touch the spherical outer layers. He had expected some sort of regular solid figure, but was surprised when the planes met to form a fourteen sided-polyhedron, made up of eight triangles and six squares. Continuing on to find out the meaning of all this he concentrated on this polyhedron in terms of forces—pulls, pushes, stresses, strains.

Further work by removing the center and other spheres, studying the result with each removal, finally left him with the simplest of the regular polyhedrons—the four sided tetrahedron. He just knew he had arrived at the most fundamental of nature's geometrical forms. After studying deeper into physics and chemistry, as well as Einstein's discovery of $E=mc^2$ and other items in the scientific realm he concluded:

"The tethedron is a basic structural system, and all structure in the universe is made up of tetrahedronal parts."[2]

From the basic tetrahedra, Fuller's objective was to get from the tetrahedron to the spherical design of a dome. In so doing, he moved step-by-step, compounding tetrahedra into an octahedron, and then into an icosahedron. The icosahedron is a figure with twenty plane surfaces or is the geometric form with the highest number of identical and symetrical surface truss facets of all polyhedra.

As you can see, the icosahedron has the potential of using its geometric design to construct a circular or spherical structure. If you were to now superimpose the sphere onto the icosahedron, the "geodesic dome" concept begins to take shape. It now becomes a matter of pushing out some of these flat surfaces to touch the curvature of the sphere and in so doing, it means breaking down the larger triangles into smaller ones.

That's a very brief version of how Bucky proceeded and hopefully it gives an adequate description of exactly what the term "geodesic dome" means to all of us.

If you decide to build a Cathedralite Dome you can rest assured that you've selected the best concept mankind and nature have to offer.

[1]Sidney Rosen, **Wizard of the Dome,** Pages 109, 110

Footnote—Portions of the above were taken from a report written by Maureen McKinney of Cal State Univ.—Fresno.

3/1/78

Cathedralite Price List & Specifications

What does a Cathedralite Dome Kit include? The prices on this sheet represent the basic shell of your dome. The precisely manufactured triangular space frames, canopies, nuts, bolts and washers are all included as part of your kit. The triangles are completely preassembled and simply bolt together to form the shell of your dome.

Remember though, in addition to this, a foundation, interior finish, roofing material, glass, etc. are needed to make the home complete.

How can I get plans? If you wish to purchase a set of plans to review prior to the purchase of your dome, they are available at $55 for one set, or three for $150. These are sample plans only and are not to be used for purposes of obtaining a building permit. For information on completely engineered plans please call our offices.

Please note: stock plans suitable for obtaining building permits are also available through this office. For specific information on these plans, call or write our main office.

What services do Cathedralite Domes offer? Cathedralite Domes offers as much assistance and consultation as is necessary to complete your project. Should you desire the services of a contractor, our experience and the experience of those working with us can provide you with the utmost in all phases of your project. Whether you are a seriously interested dome-builder, or simply curious, we look forward to meeting you. If there is no local distributor in your area, please contact our home office to visit our model homes. When you compare all alternatives closely, we feel you will be convinced that Cathedralite Domes is foremost in the manufacturing of geodesic dome homes.

With the options of riser walls, extensions, second floors, lofts, dome cluster, etc. our stock domes should meet your requirements. However, if you desire a custom-size dome, our head office offers design services to fill your every need. Complete cost breakdowns are available from our office. If you desire, we also offer professional architectural and engineering services.

CATHEDRALITE DOME SHELL

Stock #	Size	Specs	Price
	60′	**2x4**	**$26,995.**

60′ Diameter
2800 sq. ft. floor area & 2nd & 3rd floor
Optional Openings
1/2 Sphere
30′ High
25,000 lbs. shipping weight

	60′	**2x6**	**$32,995.**

(specs same as 2x4 except shipping weight.)
28,750 lbs. shipping weight

	45′	**2x4**	**$7,995.**

45′ Diameter
1500 sq. ft. floor area & 2nd floor
5 Openings
3/8 Sphere
60 Triangular Space Frames
19′ High
6,400 lbs. shipping weight

	45′	**2x6**	**$9,495.**

(specs same as 2x4 except shipping weight)
7360 lbs. shipping weight

	39′	**2x4**	**$5,895.**

39′ Diameter
1100 sq. ft. floor area & 2nd floor
5 Openings
3/8 Sphere
60 Triangular Space Frames
16′6″ High
5500 lbs. shipping weight

	39′	**2x6**	**$6,995.**

(specs same as 2x4 except shipping weight)
6325 lbs. shipping weight

	35′	**2x4**	**$4,895.**

35′ Diameter
840 sq. ft. floor area & 2nd floor
5 Openings
3/8 Sphere
60 Triangular Space Frames
15′ High
5100 lbs. shipping weight

	35′	**2x6**	**$5,895.**

(specs same as 2x4 except shipping weight)
5865 lbs. shipping weight

	30′	**2x4**	**$4,295.**

660 sq. ft. floor area & Loft
5 Openings
3/8 Sphere
60 Triangular Space Frames
13′ High
4800 lbs. shipping weight

	30′	**2x6**	**$5,195.**

(specs same as 2x4 except shipping weight)
5520 lbs. shipping weight

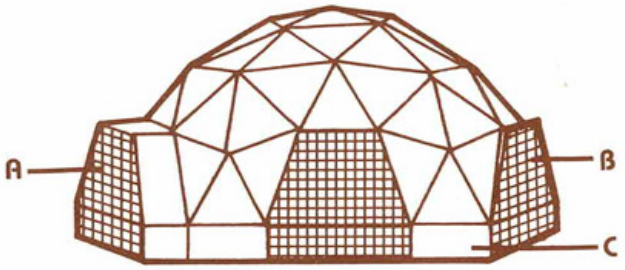
Stock #	Size	Specs	Price
	26′	**2x4**	**$3,895.**

26′ Diameter
485 sq. ft. floor area & Loft
2 Openings
1/2 Sphere
38 Triangular Space Frames
13′ High
3500 lbs. shipping weight

	26′	**2x6**	**$4,695.**

(specs same as 2x4 except shipping weight)
4025 lbs. shipping weight

Note: 30′ and 35′ Domes must have Riser Walls
See Riser Wall Chart
For Snow Load Domes in excess of 210 lbs. per sq. ft. live load, (unreduced snow load formula) add 5% to the above prices.



Geometry of 45′, 39′, 35′, and 30′ Domes.

A Opening with extension
B Opening without extension
C Riser Wall

Doors and Windows according to plans & specs.

VISTA DOME

35′ Vista Dome Package
2x4

Stock #	Live Load	Price
	0-40 lb.	**$14,995.**
	40-210 lb.	**$16,995.**

2x6 (Dome Shell Only)

Stock #	Live Load	Price
	0-40 lb.	**$15,995.**
	40-210 lb.	**$17,995.**

30′ Vista Dome Package
2x4

Stock #	Live Load	Price
	0-40 lb.	**$12,995.**
	40-210 lb.	**$14,995.**

2x6 (Dome Shell Only)

Stock #	Live Load	Price
	0-40 lb.	**$13,995.**
	40-210 lb.	**$15,995.**

Dome Size	2′	Stock #	3′
30′	N/A		$995.
35′	N/A		$1,095.
39′	N/A		$1,195.
45′	$1,195.		$1,395.

Dome Size	2′	Stock #	3′
30′	N/A		$1,795.
35′	N/A		$1,895.
39′	$1,895.		$2,095.
45′	$2,095.		$2,295.

Dome Size	2′	Stock #	3′
30′	N/A		$1,195.
35′	N/A		$1,295.
39′	N/A		$1,395.
45′	$1,374.		$1,595.

Dome Size	2′	Stock #	3′
30′	N/A		$2,095.
35′	N/A		$2,195.
39′	$2,195.		$2,395.
45′	$2,495.		$2,695.

Dome Size	2 x 4 0-40 lbs.
30′	$425
35′	$445
39′	$475
45′	$545

Dome Size	2 x 6 0-40 lbs.
30′	$550
35′	$595
39′	$650
45′	$750

SKYLITES

All dimensions are outside of wooden curb.

6′ DIAMETER—PENTAGON SHAPED

Clear plexiglass mill finish frame

Base price	$ 250.00
For tinted glass add	12.00
For baked enamel frame add	30.00
Double pane plexiglass add	140.00

42 3/8″ on all sides

6′ DIAMETER—HEXAGON SHAPED

Clear plexiglass mill finish frame

Base price	$ 270.00
For tinted glass add	12.00
For baked enamel add	30.00
For double pane plexiglass add	140.00

41 5/8″ on all sides

RISER WALLS

2x4 Total Live Load — 0-40 lbs. per sq. ft.

Stock #	4′	Stock #	5′	Stock #
	$1,095.		$1,195.	
	$1,195.		$1,295.	
	$1,395.		$1,595.	
	$1,595.		$1,795.	

2x4 Total Live Load — 40-210 lbs. per sq. ft.

Stock #	4′	Stock #	5′	Stock #
	$1,995.		$2,195.	
	$2,095.		$2,295.	
	$2,295.		$2,495.	
	$2,495.		$2.695.	

2x6 Total Live Load — 0-40 lbs. per sq. ft.

Stock #	4′	Stock #	5′	Stock #
	$1,295.		$1,395.	
	$1,395.		$1,495.	
	$1,595.		$1,795.	
	$1,795.		$1,995.	

2x6 Total Live Load — 40-210 lbs. per sq. ft.

Stock #	4′	Stock #	5′	Stock #
	$2,295.		$2,495.	
	$2,395.		$2,595.	
	$2,595.		$2,795.	
	$2,895.		$3,095.	

EXTENSIONS

Stock #	2 x 4 40-210 lbs.	Stock #
	$550	
	$595	
	$650	
	$750	

Stock #	2 x 6 40-210 lbs.	Stock #
	$550	
	$595	
	$650	
	$750	

SK-01—THIS SKYLITE WILL FIT IN 3001, 3501, 3901, 4501 PANELS. BUBBLED SURFACE.

Clear plexiglass mill finish frame

Base price	$ 195.00
For tinted glass add	7.00
For baked enamel add	26.00
For double lense add	100.00
To make this skylite operable add	195.00

58 1/8″ x 58 1/8″ x 67 1/8″

SK-02—THIS SKYLITE WILL FIT IN 3002, 3502, 3902, 4502 PANELS. BUBBLED SURFACE.

Clear plexiglass mill finish frame

Base price	$ 195.00
For tinted glass add	7.00
For baked enamel add	26.00
For double lense add	100.00
To make this skylite operable add	195.00

58 1/8″ x 58 1/8″ x 57 1/8″

SK-01 S Bubbled surface. This skylite will fit in 3001, 3501, 3901, 4501 panels. It is symmetrically the same as SK-01, but smaller. This is the size which appears in Cathedralite's main office model.

Clear plexiglass mill finish frame

Base price	$ 195.00
For tinted glass add	7.00
For baked enamel add	26.00
For double lense add	100.00
To make this skylite operable add	195.00

50" x 50" x 57 1/8"

SK-01 L is designed to fit only in the 4501 panels of a 45' dome. Bubbled surface.

Clear plexiglass mill finish frame

Base price	$ 275.00
For tinted lense add	20.00
For baked enamel add	35.00
For double lense add	185.00
To make this unit operable add	195.00

75 3/4" x 75 3/4" x 87 1/4"

SK-02 is designed to fit only in the 4502 panels of a 45' dome. Bubbled surface.

Clear plexiglass mill finish frame

Base price	$ 390.00
For tinted lense add	25.00
For baked enamel add	45.00
For double lense add	260.00

Operable units are not available for this model.

91" x 91" x 89 1/2"

CANOPY FLASHING

Stock #	Size	Each (1-4)	Set (5)
	45'	$92.40	$420.
	39'	$81.40	$370.
	35'	$78.10	$355.
	30'	$74.80	$340.

Flashings are used on Domes with canopies only (not for extensions). It is recommended that a sheetmetal contractor install and solder the flashings, although some flexible sealing compounds have successfully been used.

EXTENDED CANOPIES

Stock #	Size	Protrude (past opening)	Each	Set (5)
	45'	18"	$125.	$600.
	39'	24"	$125.	$600.
	35'	24"	$125.	$600.
	30'	24"	$125.	$600.

Extended Canopies are normally used to give added protection from rain, especially in entryways.

What materials are used in the kit? Our framework is of 2x4 or 2x6 kiln-dried select, clear, Douglas Fir; nailed, stapled, and bonded to the "skin" with Marine Resourcenol Glue. The exterior skin is 1/2" CC Structural No. 1 plywood (Full exterior). For further descriptions see the detail pages of plans. The manner in which we assemble our triangular space frames has been "approved by Research Recommendation No. 2396 of the International Conference of Building Officials" (ICBO.) We are the **only** dome company who has this approval.

What is a riser wall? A vertical wall attached to the foundation which extends upward a given height (3 feet, for example) on which the dome is placed. Riser walls serve to extend the second floor headroom and living space.

What is an extension? In essence, an area which is added on to the dome openings. A normal extension goes out four feet from the perimeter of the dome.

What materials are used in the Vista 30' and 35' Dome Kits? Our first floor exterior walls are prefabricated stud walls from 2x4 kiln dried # 2 and better Douglas Fir, sheathed with 1/2" cc structural #1 exterior plywood. Full length sandwich headers atop each wall laminated from 2 - 2x12 #1 select structural Douglas Fir kiln dried. First floor interior walls are prefabricated stud walls from 2x4 kiln dried #2 and better. The second floor joisting system is a precut joisting system of 2x12 kiln dried select #1 Douglas Fir. The second flooring material is made up of 3/4"x4'x8' CDX T&G plywood.

How can I order a Cathedralite Dome? Simply call our main office at (408) 684-0774 (P.O. Box 880/Aptos, CA 95003) and request the size and plans that you are interested in. All questions will be gladly answered and arrangements made. Please use stock number when ordering.

You may also contact your local distributor who will be able to help you secure your dome kit.

What about shipping? Your Cathedralite Dome will be shipped F.O.B. Oroville, CA. Completely assembled triangular space frames are delivered ready to bolt together on the job site.

Prices are FOB Oroville, CA. Prices and specifications subject to change without notice. Skylites are shipped FOB San Francisco.

CATHEDRALITE Domes®

"The world's foremost manufacturer of geodesic domes"

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Cathedralite Vista Domes