

Dome Deck Methods

Erecting the dome on a pre-existing deck can be problematic. Please contact us if you plan to do so. Also contact us if your dome has a pre-hung door placement that may require modifications to the deck outline.

Our shelter domes are designed with a hem that connects to the side of a raised deck, below the floor level. We suggest the following options for building decks to interface with our shelter dome hem:

1. Portable “Pie Piece” or “Star” Method

The portable “Pie Piece” (16’, 20’, and 24’) and “Star” (30’ and 36’) methods allow the deck to be disassembled in sections and moved easily. You can take it apart, load it up and move it all in a day’s work. It costs a little more than the joist method and is more complex to build.

2. Stationary Joist Method

This method requires less time and materials to build than the portable methods. We recommend a joist deck for people that don’t expect to move their dome. You can make this method semi-portable by using screws instead of nails.

3. Perimeter Boards

We recommend this method for domes with earthen floors. The perimeter board will anchor your dome and keep the fabric off the ground. You can also use the perimeter board as a mould to lay tiles or pour concrete. Concrete floors can be painted beautifully. Coat the concrete with marine varnish for easy cleaning. If perimeter boards are used as forms for concrete, we recommend using pressure-treated, rot-resistant wood, and leaving the boards in place to receive the shelter hem. 16-penny, galvanized nails started into the inside of the perimeter boards will secure the boards to the slab.

60ft. Dome Floor

Joist Method

Material List	
Qty.	Item
84	Wood-topped pier blocks
A/R*	4" x 4"
20	4" x 6" x 20ft.
2	4" x 6" x 8ft.
2	4" x 6" x 12ft.
2	4" x 6" x 24ft.
35	2" x 6" x 8ft.
10	2" x 6" x 10ft.
12	2" x 6" x 12ft.
27	2" x 6" x 16ft.
22	2" x 6" x 20ft.
45	2" x 6" x 24ft.
50#	16d galvanized box nails
50#	8d galvanized nails
94	$\frac{3}{4}$ " plywood
*As Required	

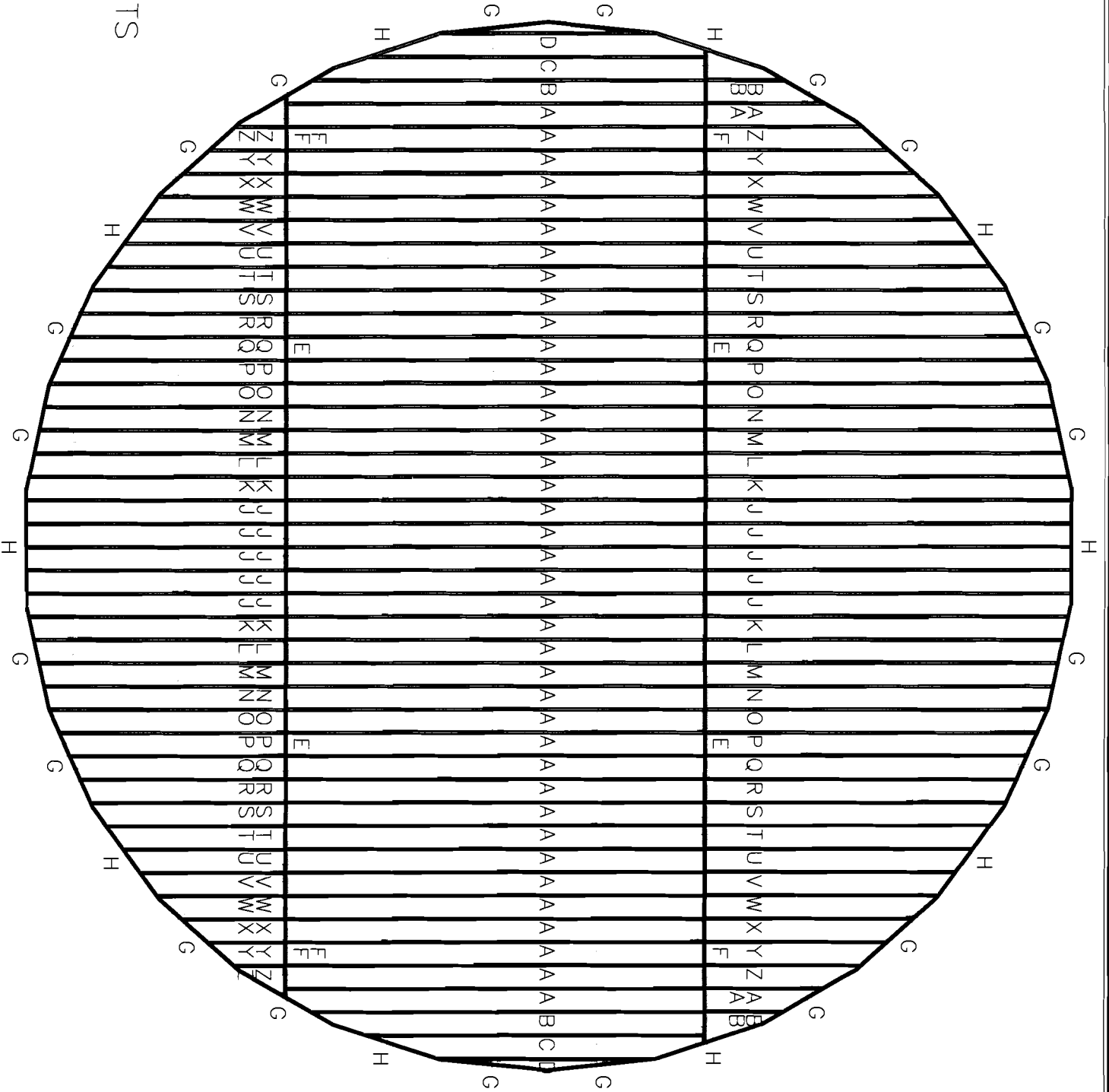
60ft. Dome Floor

Joist Method

All 2" x 6" Boards

Qty.	Board Letter	Cut From	Length	Angle
39	A	39 – 24'	286 7/16"	0°
2	B	2 – 24'	268 15/16"	60°
2	C	2 – 20'	231 1/8"	72°
2	D	2 – 16'	147 1/8"	84°
4	E	4 – 20'	240"	0°
2	F	2 – 10'	100 5/8"	18°
2	FF	1 – 12'	69 1/16"	30°
20	G	20 – 8'	74 5/16"	6°
10	H	10 – 8'	77 11/16"	6°
5	J	5 – 24'	248 5/16"	0°
2	K	2 – 24'	246 1/2"	12°
2	L	2 – 24'	243 1/16"	12°
2	M	2 – 20'	239 5/8"	12°
2	N	2 – 20'	236 3/16"	12°
2	O	2 – 20'	232 3/4"	24°
2	P	2 – 20'	225 5/8"	24°
2	Q	2 – 20'	218 9/16"	24°
2	R	2 – 20'	211 7/16"	24°
2	S	2 – 20'	204 3/8"	24°
2	T	2 – 20'	193 11/16"	36°
2	U	2 – 16'	182 1/16"	36°
2	V	2 – 16'	170 7/16"	36°
2	W	2 – 16'	158 13/16"	36°
2	X	2 – 12'	141 3/4"	48°
2	Y	2 – 12'	123 15/16"	48°
2	Z	2 – 10'	106 1/16"	48°
2	AA	2 – 8'	80 9/16"	60°
2	BB	1 – 10'	52 15/16"	60°
5	JJ	5 – 16'	176 5/16"	0°
2	KK	2 – 16'	174 1/2"	12°
2	LL	2 – 16'	171 1/16"	12°
2	MM	2 – 16'	167 5/8"	12°
2	NN	2 – 16'	164 3/16"	12°
2	OO	2 – 16'	160 3/4"	24°
2	PP	2 – 16'	153 5/8"	24°
2	QQ	2 – 16'	146 9/16"	24°
2	RR	2 – 12'	139 7/16"	24°
2	SS	2 – 12'	132 3/8"	24°
2	TT	2 – 12'	121 11/16"	36°
2	UU	2 – 10'	110 1/16"	36°
2	VV	2 – 10'	98 7/16"	36°
2	WW	2 – 8'	86 13/16"	36°
2	XX	1 – 12'	69 3/4"	48°
2	YY	1 – 10'	51 15/16"	48°
2	ZZ	1 – 8'	34 1/16"	48°

JOISTS



PACIFIC DOMES

DRAWING NAME:
60' JOIST DECK

DRAWING NUMBER:
SD-60-16

DATE:
17 JAN 2006

DRAWN BY:
TES

PAGE:
2 OF 2

REV:
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60' DOME PERIMETER BOARDS
 FOR EARTHEN OR
 PRE-EXISTING

PACIFIC DOMES

DRAWING NAME:
 60' PERIMETER

DRAWING NUMBER:
 SD-60-17

DATE:
 15 FEB 2006

DRAWN BY: TES
 PAGE: 1 OF 1
 REV: -

