

### STEEL SPECIFICATIONS

All exposed steel parts are pre-finished with a dark bronze powder coat finish.

Treads and platforms are formed from 12 ga. steel sheet. We only use HRP&O material (picked and oiled material produces a better finish.)

Center column is a sturdy 4" O.D. tubing with a .125 wall welded steel tubing.

Stair tread hubs from 4 1/2" O.D. pipe (schd. 40) x .237 wall.

Floor plate is stamped from 1/4" steel plate.

Balcony rails are 16 ga. square welded tubing with balusters spaced on 4" centers.

Hand rail is made from aluminum extrusion finished with a one piece rubber composition cover and is assembled in the field.

**Note:** Standard 60" stair (with 3 center balusters) meets the revised 1994 Uniform Bldg. Code Sections 3305 (F) (J) and 1711. Other stair diameters have 2 center balusters.

### ALUMINUM SPECIFICATIONS

All exposed aluminum parts are pre-finished with a dark bronze powder coat finish.

Treads and platforms are formed from .125 aluminum sheet.

Center column is a sturdy 4" O.D. tubing x .156 wall. Extruded aluminum tubing.

Stair tread hubs from 4 1/2" O.D. x .237 wall aluminum pipe.

Floor plate is stamped from 1/4" aluminum plate.

Balcony rails are .070 wall square tubing with balusters spaced on 4" centers.

Hand rail is made from aluminum extrusion finished with a one piece rubber composition cover and is assembled in the field.

### UNIFORM BUILDING CODE on SPIRAL STAIRWAYS

**Sec. 3305. (F):** Spiral stairways may be used for required exits when the area served is limited to 400 sq. ft. in Group R, Division 3 Occupancies (Dwellings and lodging houses) and in private stairways within individual units of Group R, Division 1 Occupancies (Hotels and apartment houses).

The tread must provide a clear walking area measuring at least 26" from the outer edge of the supporting column to the inner edge of the handrail.

A run of at least 7 1/2" is to be provided at a point 12" from where the tread is the narrowest.

The rise must be sufficient to provide 6' 6" headroom. The rise shall not exceed 9 1/2".

**(J)** Handrails shall be placed not less than 34" and no more than 38" above the nosing of treads.

**Sec. 1716:** Open guardrail and stair railings shall have intermediate rails or an ornamental pattern such that a sphere 4" in diameter cannot pass through.

**Exceptions:** (2) Guardrails for Group R, Division 3 Occupancies may be 36" in height.

(3) Interior guardrails within individual dwelling units or guest rooms of Group R, Division 1 Occupancies may be 36" in height.

### HEIGHT REFERENCE CHART

NUMBER OF TREADS	MINIMUM HEIGHT USING 1/2" SPACER RINGS	MAXIMUM HEIGHT USING 1" SPACER RINGS
1	17"	18"
2	25 1/2"	27"
3	34"	36"
4	42 1/2"	45"
5	51"	54"
6	59 1/2"	63"
7	68"	72"
8	76 1/2"	81"
9	85"	90"
10	93 1/2"	99"
11	102"	108"
12	110 1/2"	117"
13	119"	126"
14	127 1/2"	135"
15	136"	144"
16	144 1/2"	153"
17	153"	162"
18	161 1/2"	171"
19	170"	180"
20	178 1/2"	189"
21	187"	198"
22	195 1/2"	207"
23	204"	216"
24	212 1/2"	225"
25	221"	234"
26	229 1/2"	243"
27	238"	252"
28	246 1/2"	261"
29	255"	270"
30	263 1/2"	279"

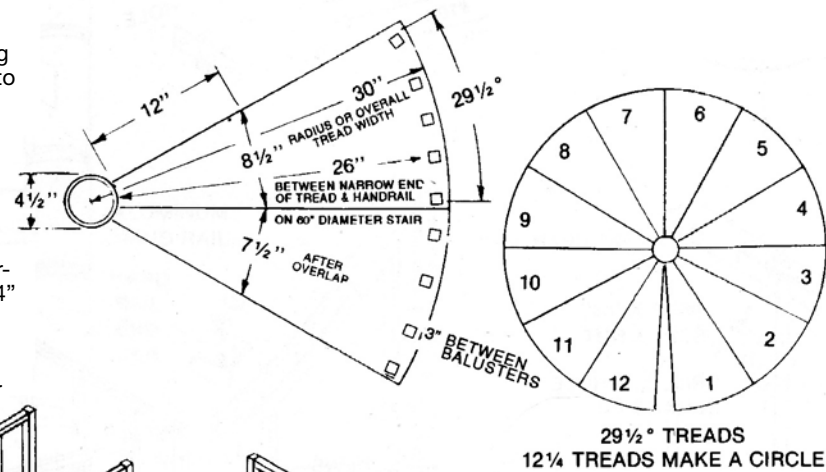
8 1/2" 1 MINIMUM - 9" MAXIMUM RISE  
AVAILABLE IN  
48", 54" 60" DIAMETERS

Please answer all questions when ordering.

1. What color?
2. Do you want an aluminum or steel stair?
3. What is stair diameter?
4. Do you want to enter on the right or left hand side of center column at the bottom of the stair?
5. What is the finish floor to finish floor height?
6. Do you need a platform? If so, what type? (A - B - C - D - E)
7. Are extra balcony railings needed around the opening at the top? If so, Indicate with a sketch, please.
8. Have you already made your opening? If so, what is the size? It is recommended that openings be made 4" larger than stair diameter.
9. Do you want oak or safety walk covers on treads?
10. Do you want oak or safety walk on the platform? (If Carpet is to be used, no inserts are needed).
11. Do you want oak handrail?
12. Do you want oak balcony rail cap?

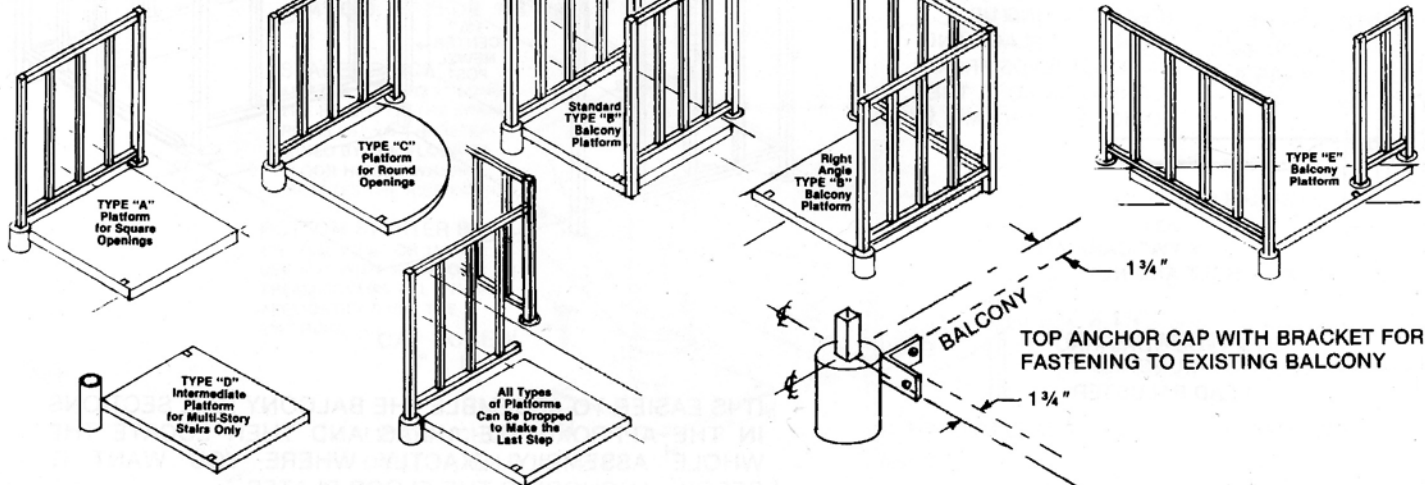
Standard Platforms are made of steel or aluminum and are made to hold stair 2" off of adjacent walls or sides of openings.

Oak Handrails are available.



29 1/2" TREADS  
12 1/4" TREADS MAKE A CIRCLE

### STAIR PLATFORMS



# Classic Spiral Stairways

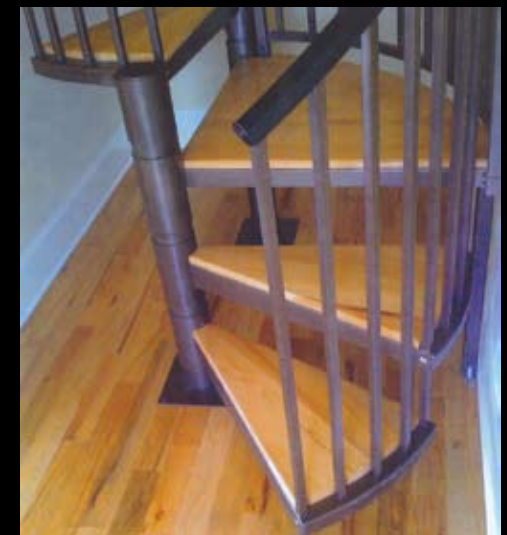
Aluminum  
and  
Steel

AVAILABLE IN  
48", 54", 60" DIAMETER

MANUFACTURED BY



Pearland, Texas 77581



\$1.50

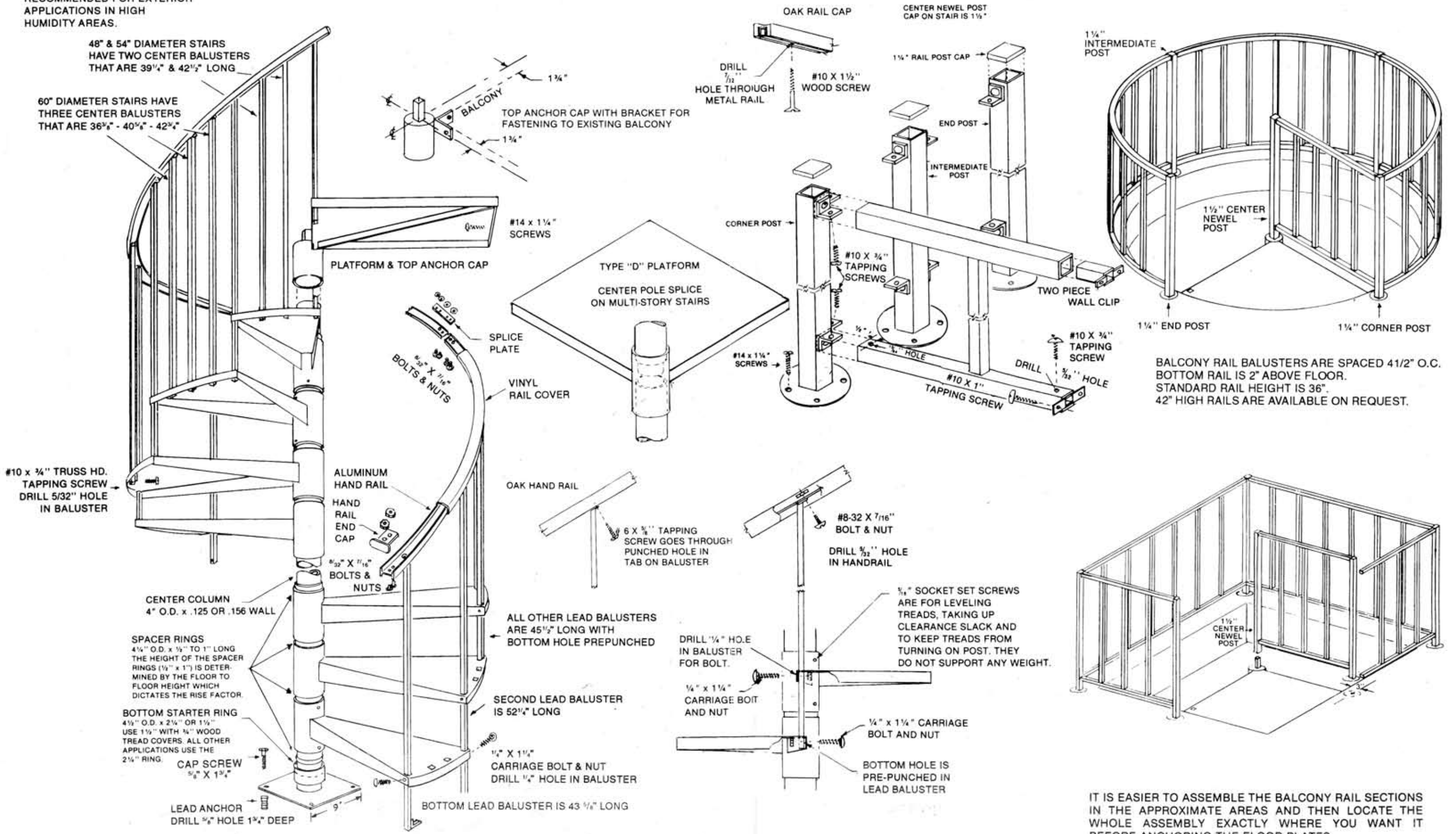
www.usastair.com

POWDER COAT PAINT FINISH  
STANDARD COLOR IS BRONZE  
BLACK, WHITE AND RED ARE OPTIONAL

THE ALUMINUM STAIR IS  
RECOMMENDED FOR EXTERIOR  
APPLICATIONS IN HIGH  
HUMIDITY AREAS.

# ALUMINUM AND STEEL SPIRAL STAIRS

by USA Stair LLC • Pearland, Texas 77581



BALCONY RAIL BALUSTERS ARE SPACED 41/2" O.C.  
BOTTOM RAIL IS 2" ABOVE FLOOR.  
STANDARD RAIL HEIGHT IS 36".  
42" HIGH RAILS ARE AVAILABLE ON REQUEST.

IT IS EASIER TO ASSEMBLE THE BALCONY RAIL SECTIONS  
IN THE APPROXIMATE AREAS AND THEN LOCATE THE  
WHOLE ASSEMBLY EXACTLY WHERE YOU WANT IT  
BEFORE ANCHORING THE FLOOR PLATES.