

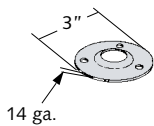
TSM is a recognized leader in grab bars, offering a broad selection of standard models as well as custom configurations. TSM bars are manufactured to exacting quality criteria. There are three tubing sizes and eight flanges from which to choose, more than any other grab bar manufacturer. All parts are type 304 stainless steel, heliarc welded to form one complete unit. Bends are 90° and 1 1/2" wall clearance is standard (38mm). TSM offers a wide variety of bars that meet or exceed all building codes for barrier-free design. In addition, all of the models featured on pages 18-23 can be modified to different dimensions to fit your needs. If you have a custom configuration in mind unlike any of the standard models, see page 23. All TSM grab bars meet or exceed the structural strength requirements of current U.S. building codes and ADA guidelines (300 pounds/1335N). Fastener kits are ordered separately (see page 23).

Exposed Screw Flanges

R-1



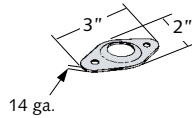
14 gauge thick, 3" diameter. Three holes for pan head screws.



D-1



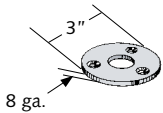
14 gauge thick, 2" x 3". Welded at 90° to the bar to facilitate attaching the bar to building studs. Two holes for pan head screws.



R-3



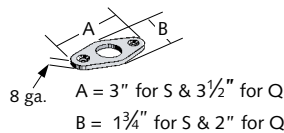
8 gauge thick, 3" diameter. Extremely heavy-duty. Strongest flange in the line. Three countersunk holes for oval head screws.



D-3



8 gauge thick, 2" x 3 1/2" (1 3/4" x 3" for 1" tubing). Extremely heavy-duty. Like the D-1, the diamond-shaped D-3 is welded perpendicular to the bar. Two holes for oval head screws.



Gauge Guide

Gauge	Thickness in Inches / millimeters	
8	.165"	4.2mm
11	.120"	3.1mm
12	.109"	2.8mm
14	.083"	2.1mm
15	.072"	1.8mm
16	.065"	1.7mm
18	.049"	1.2mm
20	.035"	.9mm
22	.028"	.7mm
24	.022"	.6mm
25	.020"	.5mm
28	.014"	.4mm

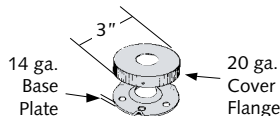
BWG conversion to inches and millimeters. (The lower the number, the heavier the gauge.)

Concealed Screw Flanges

CS-1



14 gauge thick base plate; 20 gauge cover flange, 3" diameter. TSM originated the snap-lock flange concept, which provides a direct-to-wall installation. The base flange screws into the wall and the dimpled cover flange snaps firmly onto the three crimps on the edge of the base plate. Base flange has 5 screw holes.

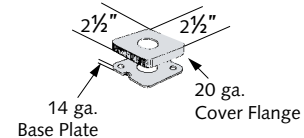


FS-1



14 gauge thick base plate; 20 gauge cover flange, 2 1/2" x 2 1/2". Provides the same snap-lock flange design as the CS-1 in a square model.

Base flange has 2 diagonal screw holes for pan head screws.

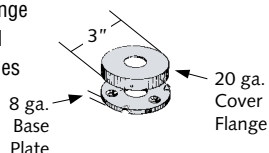


CS-3



Combines an R-3 base plate with a CS-1 snap-lock cover flange; provides extra heavy-duty base flange with decorative cover. 8 gauge thick base plate; 20 gauge cover flange, 3" diameter. The base flange screws into the wall and the dimpled cover flange snaps firmly onto the three crimps on the

edge of the base plate. Base flange has 3 screw holes for oval head screws at ends and 5 screw holes for mid-supports for easier access when installing.



CS-35 Same as CS-3 except the base plate has 5 holes instead of 3

CS-5



14 gauge thick tenon plate, 2 11/16" diameter; 12 gauge thick cover flange, 3" diameter. Tenon plate is mounted to wall. Two holes for pan head screws, or central hole slot can be used with thru bolt or other appropriate fastener as chosen by installer.

Cover flange is attached to tenon plate with 4 set screws

