

SA: SR816PAN

DATE: 2/17/02

SR8 16 4DKE SLIDE RAIL PANEL RATINGS

DESIGN FOR SLIDE RAIL PANEL WITH 4 HORIZONTAL STRINGERS
DOUBLE WALL WITH KNIFE EDGE

ENTER TOTAL HEIGHT OF PANEL IN INCHES 94.25
 ENTER HEIGHT OF UPPER TUBE IN INCHES 12.00 (INCLUDES 8X4X1/2 TOP TUBE)
 ENTER HEIGHT OF SECOND TUBE IN INCHES 4.00
 ENTER HEIGHT OF THIRD TUBE IN INCHES 4.00
 ENTER HEIGHT OF BOTTOM TUBE IN INCHES 6.00
 ENTER HEIGHT OF KNIFE EDGE IN INCHES 8.00

HEIGHT OF INSIDE SPACE IN INCHES 60.25
 ENTER HEIGHT OF UPPER SPACE IN INCHES 22.00 *
 ENTER HEIGHT OF MIDDLE SPACE IN INCHES 19.00 * (CHECK MATH !!)
 ENTER HEIGHT OF LOWER SPACE IN INCHES 19.00 *

ENTER WIDTH OF TUBE IN INCHES 4.0000
 ENTER PLATE THICKNESS IN INCHES 0.2500
 WIDTH OF PANEL IN INCHES 4.5000

ENTER TOTAL LENGTH OF PANEL IN INCHES 192.00 16.00 FEET
 ENTER LOAD INSET DIMENSION 4.00
 LENGTH OF SPAN FOR DESIGN IN INCHES 184.00

ENTER TYPE OF TUBE

UPPER 4X4X1/4 SECOND 4X4X1/4 THIRD 4X4X1/4 LOWER 6X4X5/16
 ENTER I FOR EACH TUBE (CAUTION I_{xx} OR I_{yy})
 UPPER 8.22 SECOND 8.22 THIRD 8.22 LOWER 28.70 INC. KE I_{yy}

ENTER STEEL STRENGTH IN PSI 55000

PROPERTIES	UPPER	SECOND	THIRD	LOWER
I TOTAL IN4	57.95	63.60	60.21	59.22
S TOTAL IN3	25.76	28.27	26.76	26.32
P AVERAGE PSF	1672	1723	1738	1673
D AVERAGE INCHES	82.75	59.00	35.00	11.75

STRINGER RATINGS	UPPER	SECOND	THIRD	LOWER	DEPTH (FEET)
AT 25 PSF	1845	1846	1810	1697	68
AT 45 PSF	1983	1944	1869	1717	38
AT 60 PSF	2086	2018	1913	1731	29

PSF RATINGS	PSF
AT 25 PSF	1697
AT 45 PSF	1717
AT 60 PSF	1731

THIS PROGRAM COMPUTES THE MAXIMUM PSF AND DEPTH RATINGS FOR THE HORIZONTAL PANEL MEMBERS ONLY. CONSIDERATION OF THE TOP 8X4 TUBE IS NOT INCLUDED. CONSIDERATION OF THE BOTTOM KNIFE EDGE IS INCLUDED.