



July 10, 2003

## ***SPECIFICATION FOR 1" HOMOGENEOUS STEEL GRATING***

### **DetentionGRADE™ 7700C – T/R**

**Maximum Security Steel Grating:** ASTM A627 Double Rib Round (Jail Bar) and ASTM-1045 flat bars in steel grating walls and doors shall be as specified herein. Vertical round bars shall pass through and positively interlock with horizontal flat bars at each intersection without reducing the circumference of the rounds at these intersections. Horizontal flat bars shall be connected to side frame bars.

Grating shall be constructed of 1" diameter tool-resisting vertical round bars, complying with ASTM A627, spaced not more than 5" on centers and 3/8" x 2-1/2" ASTM 1045 steel horizontal flat bars spaced not more than 12" apart.

**Laboratory Tests** complying with ASTM standard A627 for round bars shall be conducted on random bars that are to be used in wall and door construction for this project to insure minimum performance standards. A recognized independent testing laboratory that has been certified by ASTM to comply with ASTM Standard E329 shall conduct these tests.

### **DetentionGRADE™ 7700D – Mild**

**Maximum Security Steel Grating:** ASTM-1045 Double Rib Round (Jail Bar) and ASTM-1045 flat bars in steel grating walls and doors shall be as specified herein. Vertical round bars shall pass through and positively interlock with horizontal flat bars at each intersection without reducing the circumference of the rounds at these intersections. Horizontal flat bars shall be connected to side frame bars.

Grating shall be constructed of 1" diameter Double Rib vertical round bars, complying with ASTM 1045, spaced not more than 5" on centers and 5/16" x 2-1/4" or 3/8" x 2-1/2" ASTM 1045 steel horizontal flat bars spaced not more than 12" apart.