



BRICKING SOLUTIONS

A DIVISION OF **BROKK**[®]

PRIMARY DESIGN & FABRICATION SPECIFICATIONS FOR BRICKING SOLUTIONS' SAFETY ENCLOSURES

A. DESIGN (The Aluminum Association, Inc.):

1. Specifications for Aluminum Structures Allowable Stress Design, Part I-A
 - a. Part I-A, Section 3 – General Design Rules
 - b. Part I-A, Section 4 – Special Design Rules
 - c. Part I-A, Section 6 & 7 – Fabrication & Welded Construction
2. Specifications for Aluminum Structures Commentary on Allowable Stress Design, Part I-A
3. Design Guide, Part III
4. Material Properties, Part V
 - a. Table 1, Minimal Mechanical Properties

B. FABRICATIONS:

1. Structural Aluminium (Aluminium Association Designations):
 - a. Sheet & plate: 6061-T6 & T651 ASTM – B209
 - b. Extrusions : 6061-T6, T6510 & T6511 ASTM – B308/B308M
2. Weld Filler Materials :
 - a. Alloy no. 5356 with PN designation 535615047
 - b. ANSI/AWS specification A5.10
 - c. ASME specification SFA-5.10
 - d. Certified by: CWB to AWS specifications
3. Welding Procedure:
 - a. ANSI/AWS (An American National Standard) D-1.2
 - b. AWS D1.2, Section 2 – “Design of Weld Connections”
 - c. AWS D1.2, Section 4 – “Technique
 - d. AWS D1.2, Section 5 – “Qualification of Procedures and Personnel”
 - e. AWS D1.2, Section 6 – “Inspection”
 - f. AWS D1.2, Section 10 – “Tubular Structures”

NOTE: A more detailed Engineer's Report on the design, development, and testing of Bricking Solutions' Inspection Safety Cages is available upon request.