



TESTING GROUP  
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**Component Testing Test Certificate No. 08-03-C0065**

**March 14, 2008**

**Client:** Barrier Free Architecturals Inc.  
#24-2700 Dufferin Street  
Toronto, Ontario, M6B 4J3

**Attention:** Mr. Victor Helfand

- 1. **TEST(S):** Proof Load and Ultimate Strength
- 2. **SAMPLE(S):**

|                              |  |
|------------------------------|--|
| <u><b>BTG Sample No.</b></u> | <u><b>Sample Description</b></u>           |
| 08-03-C0065-1                | Grab bar for physically challenged persons |
- 3. **SPECIFICATION:** Proof Load: Apply vertical-downward load of 250 lbs. to the free end of handle (opposite from vertical support) for a period of 30 seconds. Pass or Fail Criteria: No major damage to the product or the structural integrity of the display.  
Ultimate Strength: Apply load at the same location and orientation as per Proof Load until failure occurs.
- 4. **EQUIPMENT:** 5Kip Load Cell – MII B06935  
MTS 407 Signal conditioner – MII B06083  
Displacement transducer – MII B06848  
MTS 407 Signal conditioner – MII B06078  
Spider 8 DAQ – MII A14020
- 5. **PROCEDURE:** The proof load of 250 lbs. was applied and maintained for 30 seconds using a servo-hydraulic actuator. Load and displacement data were recorded.  
At the Ultimate Strength the load was applied in displacement control at a constant rate of 1 mm/min until failure occurs.
- 6. **RESULTS:** The sample sustained the proof load of 250 lbs. for a period of 30 seconds without failure or deformation.  
When Ultimate Strength was conducted, the sample slowly deformed at handle and vertical support, without sudden failure. The maximum load recorded during testing was 460.8 lbs.

Respectfully,

**Bodycote Testing Group**

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