

## **SAFETY STORAGE CABINETS FOR FLAMMABLES, COMBUSTIBLES CORROSIVES & TOXIC SUBSTANCES**

# **SYSTEMS INTEGRATION TEST REPORT**

### **Model No.: All-Gauge Models**

WA810040 / WA810100 / WA810120 / WA810220 / WA810300 / WA810450 / WA810600 / WA810860  
WA810040R / WA810120R / WA810300R / WA810450R / WA810600R / WA810860R  
WA810040B / WA810120B / WA810300B / WA810450B / WA810860B  
WA810550 / WA810550H / WA811100 / WA810115  
WA810120W / WA810450W / WA810120G / WA810300G / WA810300G / WA810450G

**To: SYSBEL CHINA Co., Ltd**

**Term of Validity: Form Jan. 11, 2015 to Jan.11, 2018**

### **EXAMINATION AND TESTS:**

The safety storage cabinets for Flammables, Combustibles, Corrosives & Toxic Substances (Model No.: WA810040 / WA810450 / WA810860 / WA810300R / WA810040B / WA810120W) were submitted as representative of the SYSBEL product line. Examination showed that they were constructed with tight fitting joints. Manufacturer's drawings with complete material specifications for these cabinets were kept in file.

1.1 The sample cabinets were subjected to a 10-minute fire exposure test, according to the time-temperature curve as set forth in Article 42 of NFPA 30. The internal cabinet temperature was 149°C at the end of the 10-minute fire exposure test. All joints and seams remained tight and the doors remained securely closed.

1.2 During the fire exposure test, cinder blocks were used to simulate loading capacity of the shelves. There was no deformation or loss of stability during or after the fire as a result of this loading.

1.3 The vents were left plugged for the fire exposure test, but as a part of the investigation, they were subjected to a 15-min fire exposure test by passing a combustible hydrocarbon gas-air mixture through the arrester and allowing it to burn on the surface of the arrester, The flow was cut-off at 5 minutes intervals and no evidence of flashback was observed.

1.4 An endurance test of 1,000 cycles of full opening and closing of the door closer (12.7cm stroke) was set up, which was powered by an air cylinder to operate at approximately 12 cycles per minute. At the end of this test period, the door closer was in satisfactory condition, the spring force required to overcome the door closer (start the rod moving) was still 9.07 kg.

1.5 The results of the examination and tests are satisfactory.

### **CONCLUSION:**

There safety storage cabinets for flammables, combustibles, corrosives and toxic substances meet SYSBEL testing requirements. The safety storage cabinets for flammables, combustibles, corrosives and toxic substances are selected for testing according to random sample, which gauge cover WA810040, WA810450, WA810860, WA810300R, WA810040B, and WA810120W.

**SYSBEL Fire Proof Materials Lab**

**SYSBEL Safety Laboratory**

