

# Bal Tech, Inc

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## CERTIFIED TEST REPORT

**16" I.D. E-Z FLANGE Jr. CONNECTOR  
DOUBLE WALL POSITIVE PRESSURE LEAK TEST**

**File Number  
6423**

**prepared for**

**SHEET METAL CONNECTORS  
5850 MAIN Street N.E.  
Minneapolis, MN 55432  
Tel.# 800-328-1966  
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**Prepared by:  
Michael Lawrence Lancette  
Certified TAB Supervisor  
National Environmental Balancing Bureau  
NEBB Certification No. - 2483**

**July 9, 2003**

**STATEMENT OF REPORT**

**PROJECT: 16" I.D. E-Z FLANGE Jr. CONNECTOR  
DOUBLE WALL POSITIVE PRESSURE LEAK TEST**

**THE DATA PRESENTED IN THIS REPORT IS AN EXACT RECORD OF SYSTEM PERFORMANCE AND WAS OBTAINED IN ACCORDANCE WITH NEBB STANDARD PROCEDURES. ANY VARIANCES FROM DESIGN QUANTITIES WHICH EXCEED NEBB TOLERANCES ARE NOTED THROUGH OUT THIS REPORT.**

**THE DISTRIBUTIONS SYSTEMS HAVE BEEN TESTED, BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB PROCEDURAL STANDARDS FOR TESTING - ADJUSTING - BALANCING OF ENVIRONMENTAL SYSTEMS AND THE PROJECT SPECIFICATIONS.**

**SUBMITTED & CERTIFIED BY:**

**NEBB FIRM: BAL TECH, INC.**

**SUPERVISOR: MICHAEL LAWRENCE LANCETTE**

**REG. NO.: 2483**



Bal Tech, Inc.

Air Leakage Test

Project Name: E-Z FLANGE Jr. CONNECTOR  
DOUBLE WALL POSITIVE PRESSURE LEAK TEST  
BTI File Number: 6423

3.0" w.c.  
18" O.d., 16" I.d.

Flow Leakage Test	
Test date:	7/9/2003
Size / Type:	18" Round 24 Ga.Galv. Spiral Double Wall ( 18" o.d., 16" i.d. )
Traverse Joint: / Quantity	E-Z FLANGE Jr. / 4
Leakage class per SMACNA leakage classification:	6
Seal class per SMACNA leakage classification:	B
Total duct surface area of the subject duct: Sq. Ft.:	79
Percent of the total system tested:	100%
Allowable Leakage (C.F.M./100 SQ. FT.)	10.4
Allowable Leakage CFM (Test section)	8.22
Calibrated Tube Number:	1029
Tube size:	4"
Pressure "W.G. Test duct::	3.127
Pressure "W.G. Across orifice:	0.0041
Actual leakage C.F.M.: (Test Section)	2.132
Test Performed By:	Michael Lancette

Bal Tech, Inc.

Air Leakage Test

Project Name: E-Z FLANGE Jr. CONNECTOR  
DOUBLE WALL POSITIVE PRESSURE LEAK TEST  
BTI File Number: 6423

6.0" w.c.  
18" O.d., 16" I.d.

Flow Leakage Test	
Test date:	7/9/2003
Size / Type:	18" Round 24 Ga.Galv. Spiral Double Wall ( 18" o.d., 16" i.d. )
Traverse Joint: / Quantity	E-Z FLANGE Jr. / 4
Leakage class per SMACNA leakage classification:	3
Seal class per SMACNA leakage classification:	A
Total duct surface area of the subject duct: Sq. Ft.:	79
Percent of the total system tested:	100%
Allowable Leakage (C.F.M./100 SQ. FT.)	9.6
Allowable Leakage CFM (Test section)	7.58
Calibrated Tube Number:	1029
Tube size:	4"
Pressure "W.G. Test duct::	6.273
Pressure "W.G. Across orifice:	0.0076
Actual leakage C.F.M.: (Test Section)	2.903
Test Performed By:	Michael Lancette

Bal Tech, Inc.

Air Leakage Test

Project Name: E-Z FLANGE Jr. CONNECTOR  
DOUBLE WALL POSITIVE PRESSURE LEAK TEST  
BTI File Number: 6423

10.0" w.c.  
18" O.d., 16" I.d.

<b>Flow Leakage Test</b>	
Test date:	7/9/2003
Size / Type:	18" Round 24 Ga.Galv. Spiral Double Wall ( 18" o.d., 16" i.d. )
Traverse Joint: / Quantity	E-Z FLANGE Jr. / 4
Leakage class per SMACNA leakage classification:	3
Seal class per SMACNA leakage classification:	A
Total duct surface area of the subject duct: Sq. Ft.:	79
Percent of the total system tested:	100%
Allowable Leakage (C.F.M./100 SQ. FT.)	13.4
Allowable Leakage CFM (Test section)	10.59
Calibrated Tube Number:	1029
Tube size:	4"
Pressure "W.G. Test duct::	10.18
Pressure "W.G. Across orifice:	0.0125
Actual leakage C.F.M.: (Test Section)	3.723
Test Performed By:	Michael Lancette