

Bal Tech, Inc

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CERTIFIED TEST REPORT

28" DIAMETER E-Z FLANGE CONNECTOR POSITIVE PRESSURE LEAK TEST

**File Number
6448**

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**

August 26, 2003

STATEMENT OF REPORT

PROJECT: 28" DIAMETER E-Z FLANGE CONNECTOR
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
28"Duct/3.0" w.c.

Project Name: E-Z FLANGE CONNECTOR
POSITIVE PRESSURE LEAK TEST
BTI File Number: 6448

| | |
|---|------------------------------|
| Flow Leakage Test | |
| Test date: | 8/26/2003 |
| Size / Type: | 28" Round 24 Ga.Galv. Spiral |
| Traverse Joint: / Quantity | E-Z FLANGE / 2 |
| Leakage class per SMACNA leakage classification: | 6 |
| Seal class per SMACNA leakage classification: | B |
| Total duct surface area of the subject duct: Sq. Ft.: | 83 |
| Percent of the total system tested: | 100% |
| Allowable Leakage (C.F.M./100 SQ. FT.) | 10.4 |
| Allowable Leakage CFM (Test section) | 8.63 |
| Calibrated Tube Number: | 1029 |
| Tube size: | 4" |
| Pressure "W.G. Test duct:: | 3.34 |
| Pressure "W.G. Across orifice: | 0.0089 |
| Actual leakage C.F.M.: (Test Section) | 3.142 |
| Test Performed By: | Michael Lancette |

Comments:

1. Flange ring sealed with DP 10/10 before installation between duct and ring.
2. No sealer in or on inside duct walls or air stream.

Bal Tech, Inc.

Air Leakage Test
28"Duct/6.0" w.c.

Project Name: E-Z FLANGE CONNECTOR
POSITIVE PRESSURE LEAK TEST
BTI File Number: 6448

| | |
|---|------------------------------|
| Flow Leakage Test | |
| Test date: | 8/26/2003 |
| Size / Type: | 28" Round 24 Ga.Galv. Spiral |
| Traverse Joint: / Quantity | E-Z FLANGE / 2 |
| Leakage class per SMACNA leakage classification: | 3 |
| Seal class per SMACNA leakage classification: | A |
| Total duct surface area of the subject duct: Sq. Ft.: | 83 |
| Percent of the total system tested: | 100% |
| Allowable Leakage (C.F.M./100 SQ. FT.) | 9.6 |
| Allowable Leakage CFM (Test section) | 7.97 |
| Calibrated Tube Number: | 1029 |
| Tube size: | 4" |
| Pressure "W.G. Test duct:: | 6.23 |
| Pressure "W.G. Across orifice: | 0.0181 |
| Actual leakage C.F.M.: (Test Section) | 4.480 |
| Test Performed By: | Michael Lancette |

Comments:

1. Flange ring sealed with DP 10/10 before installation between duct and ring.
2. No sealer in or on inside duct walls or air stream.

Bal Tech, Inc.

Air Leakage Test
28"Duct/10.0" w.c.

Project Name: E-Z FLANGE CONNECTOR
POSITIVE PRESSURE LEAK TEST
BTI File Number: 6448

| | |
|---|------------------------------|
| Flow Leakage Test | |
| Test date: | 8/26/2003 |
| Size / Type: | 28" Round 24 Ga.Galv. Spiral |
| Traverse Joint: / Quantity | E-Z FLANGE / 2 |
| Leakage class per SMACNA leakage classification: | 3 |
| Seal class per SMACNA leakage classification: | A |
| Total duct surface area of the subject duct: Sq. Ft.: | 83 |
| Percent of the total system tested: | 100% |
| Allowable Leakage (C.F.M./100 SQ. FT.) | 13.4 |
| Allowable Leakage CFM (Test section) | 11.12 |
| Calibrated Tube Number: | 1029 |
| Tube size: | 4" |
| Pressure "W.G. Test duct:: | 11.92 |
| Pressure "W.G. Across orifice: | 0.0356 |
| Actual leakage C.F.M.: (Test Section) | 6.283 |
| Test Performed By: | Michael Lancette |

Comments:

1. Flange ring sealed with DP 10/10 before installation between duct and ring.
2. No sealer in or on inside duct walls or air stream.