



FORGED IN THERMAL PROTECTION

High Static Pressure & Leakage Test

Testing Objectives:

Demonstrate the strength of the patented Pro-R Duct System and low air leakage performance by pressurizing the duct to 19"+ w.g. and conducting a leak test.

Summary of Results:

- Pro-R was pressurized to 19" w.g. without failure or damage from the high static pressure.
- Leakage was extremely low and achieved a SMANCA Class 1 Leakage rating while operating at 19" w.g., leakage was below the test device minimum readable leakage of 6.80 CFM.



Test Details:

- Test location: Ducts and Cleats, St. Paul, Minnesota Facility, 2-17-26
- Testing agency: SMB Minnesota, Retrotec DucTester
- Three joints of Pro-R Duct 36" x 24" in our standard 44" length (total of 115 sq. ft), built to a 8" w.g. construction standard
- Standard Pro-R assembly and gasketing, no additional sealing was placed on flanges or corners (i.e. duct sealer or caulk), external flange gasket and connection cover not installed
- Product Model: Pro-R Rectangle, fortified with R-12 KoolDuct built to SMACNA phenolic duct ANSI-22 standards with additional innovative reinforcement and duct construction methods
- 18 gauge exterior embossed aluminum cladding and enhanced Proflange TDC connections
- Max Pressure Tested: 19" w.g.
- Air Leakage @ 19" w.g.: Less than 6.80 CFM (minimum device readable leakage CFM)
- Successful operation at 19" w.g. without failure or damage to duct system

Independent Agency Testing Report



LOCATION:
Ducts & Cleats Project (Duct Leakage, TAB Report)
200 West Plato Blvd St. Paul MN 55107



CONTACT:
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Duct Leakage Test

DESIGN DATA

DUCT LOCATION	Pro-R Duct	SURFACE SF	115.00 sq. ft
DUCT CLASS SP	- in. H2O	C F M/100 SF	
LEAK CLASS	-	C F M LEAK ALLOW	

FIELD TEST DATA

SMB TECH	Zach Olson	C F M LEAK ACTUAL	Less than 6.80 CFM
WITNESS	Kevin Albers	NOTES	Under machine min cfm
TEST SP	19.00 in. H2O	PASS/FAIL	-
ORIFICE	18	DATE	2-17-2026

