

University of Illinois Department of Agricultural Engineering
Bioenvironmental and Structural Systems Lab
Final Report

Project Number: 12354
Test Date: May 21, 2012

Inlet:
Make- Termotecnica
Model- PERICOOL 15-45/7-150
Size- 48" x 48" (1219 x 1219 mm) test area

Description: Cellulose based evaporative cooling pad, 15 deg. X 45 deg. Corrugatic

Notes:

Test Conditions:

T(wb): 63,0 Barometric pressure, recorded 29,45
T(db): 76,0 Barometric Pressure, corrected 29,32

Static Pressure (in. H2O)	Airflow (cfm)	Velocity (fpm)	Static Pressure (Pa)	Velocity (m/s)
0,010	2021	126	3	0,64
0,020	3102	194	5	0,99
0,040	4694	293	10	1,50
0,050	5385	337	12	1,72
0,080	6903	431	20	2,20
0,100	7621	476	25	2,43
0,125	8594	537	31	2,74
0,150	9784	612	37	3,12
0,200	11397	712	50	3,63
0,250	12907	807	62	4,11
0,300	14213	888	75	4,53
0,400	16476	1030	100	5,25