

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

Project Number: 12350
 Test Date: May 21, 2012

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

Description: Cellulose based evaporative cooling pad, 45 deg. X 45 deg. Corrugation angle

Notes:

Test Conditions:

T(wb): 62,5 Barometric pressure, recorded 29,43
 T(db): 75,5 Barometric Pressure, corrected 29,31

Static Pressure (in. H ₂ O)	Airflow (cfm)	Velocity (fpm)	Static Pressure (Pa)	Velocity (m/s)
0,010	1479	92	3	0,47
0,020	2207	138	5	0,70
0,040	3214	201	10	1,02
0,050	3651	228	12	1,16
0,080	4693	293	20	1,50
0,100	5325	333	25	1,70
0,125	5969	373	31	1,90
0,150	6574	411	37	2,10
0,201	7681	480	50	2,45
0,251	8611	538	62	2,74
0,300	9652	603	75	3,08
0,400	11171	698	100	3,56
0,500	12557	785	125	4,00
0,600	13986	874	149	4,46
0,700	15114	945	174	4,82
0,800	16434	1027	199	5,24
0,900	17148	1072	224	5,47