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Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

ARCOPLAST
1873 Williamstown Drive
St. Peters, MO 63376

June 30, 2021
Lab No. 21P-2998
Invoice No. INSTL9261
Page 1 of 2

Attention: Ghislain Beauregard

REPORT OF TESTING

TR-35 Pultruded Fiberglass Suspended Grid System
(With Hanger wire spacing 12" (300mm) at wall junction).
Suspended from overhead C Carrier Channel 3"x2" x thickness from 30" above ceiling grid.
TC-35 Tee Rail is attached with #12-gauge soft annealed wire at predetermined spans.
Tee and cross tee rail sections are connected with PVC locking clamps.
(NO RIVET/ SCREW FASTENERS).

SUBJECT: ASTM C635-04 Test Mockup Model- 8'-0"x 8'-0" with one central main tee rail supported at predetermined intervals.
METHOD: ASTM C635-04
RESULTS:

Hanger Wire Spacing	Lbs./Ft	Main Tee Deflection (in)		
		Dial Gauge 1 (Left)	Dial Gauge 2 (Center)	Dial Gauge 3 (Right)
2'-0"	20.5	0.0270	0.0785	0.0136
2'-0"	16.0	0.0260	0.0730	0.0330
3'-0"	20.5	0.0100	0.1160	0.0094
3'-0"	16.0	0.0090	0.0940	0.0078
3'-6"	20.5	0.0220	0.1050	0.0072
3'-6"	16.0	0.0205	0.0825	0.0065
4'-0"	20.5	0.0230	0.2790	0.0013
4'-0"	16.0	0.0165	0.2280	0.0020
4'-0"	12.0	0.0085	0.1800	0.0016
4'-0"	5.0	0.0095	0.0745	0.0012


Karl Schmitz, Director
Materials Testing

KS/ks



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Suspended from overhead C Carrier Channel 3"x2" x thickness from 30" above ceiling grid.
TC-35 Tee Rail is attached with #12-gauge soft annealed wire at predetermined spans.
Tee and cross tee rail sections are connected with PVC locking clamps.
(WITH STAINLESS STEEL RIVET & BACKUP WASHER).

SUBJECT: ASTM C635-04 Test Mockup Model- 8'-0"x 8'-0" with one central main tee rail supported at predetermined intervals.

METHOD: ASTM C635-04

RESULTS:

Hanger Wire Spacing	Lbs./Ft	Main Tee Deflection (in)		
		Dial Gauge 1 (Left)	Dial Gauge 2 (Center)	Dial Gauge 3 (Right)
2'-0"	20.5	0.0185	0.0660	0.0080
3'-0"	20.5	0.0130	0.1225	0.0097
3'-6"	20.5	0.0175	0.1090	0.0063
4'-0"	12.0	0.0135	0.1210	0.0025

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