

ARCOPLAST
1873 Williamstown Drive
St. Peters, MO 63376

August 12, 2020
Lab No. 20P-3781
PO. No. 12529
Page 1 of 2

Attention: Ghislain Beauregard

REPORT OF MECHANICAL TEST

(TEST # 1) Physical & Mechanical Testing per project requirement GFRP Fiberglass Panel Load bearing test to determine the strength of a partition mock up utilizing a 16 gauge steel stud on 16"c/c clad with a 3/8" (9.5mm) GFRP fiberglass panel 24" x 48" on one side of the steel stud and 2 panels of 24" x 24" on the opposite side with a joint system made up of a mechanical spline with the finishing compound seal. The GFRP fiberglass panel is bonded with a continuous 3M VHB #4959 1/2" tape with a continuous bead of A-2020 structural adhesive bead 3/8" (9.5mm) diameter on each individual steel stud, including the bottom and top track. The partition assembly will have a wide angle flange on the top of the partition so the load can be disbursed evenly on the steel stud and panels on both sides throughout the 4'-0" wide mock up.

(TEST # 2) Physical & Mechanical Testing per project requirement ACRYLOYL Acrylic Panel Load bearing test to determine the strength of a partition mock up utilizing a 16 gauge steel stud on 16"c/c clad with a 3/8" (9.5mm) Acryloyl acrylic panel 24" x 48" on one side of the steel stud and 2 panels of 24" x 24" on the opposite side with a joint system made up of a mechanical spline with the finishing compound seal. The Acryloyl acrylic panel is bonded with a continuous 3M VHB #4959 1/2" tape with a continuous bead of A-2020 structural adhesive bead 3/8" (9.5mm) diameter on each individual steel stud, including the bottom and top track. The partition assembly will have a wide angle flange on the top of the partition so the load can be disbursed evenly on the steel stud and panels on both sides throughout the 4'-0" wide mock up.

INSTRUMENT: UTM Satec 1269

RESULTS:

Test #	Panel Adhesive Visible Failure Load (lbf)	2'x 2' Panel Joint Failure (lbf)	Max Load (lbf)
1	86,500	95,300	95,300
2	86,600	102,900	102,900



Typical Test Set Up

ARCOPLAST
1873 Williamstown Drive
St. Peters, MO 63376

August 12, 2020
Lab No. 20P-3781
PO. No. 12529
Page 2 of 2

Attention: Ghislain Beauregard

REPORT OF MECHANICAL TEST



Test #1 Sample Failure



Test #1 Sample Failure



Test #2 Sample Failure



Test #2 Sample Failure

Karl Schmitz, Director
Materials Testing

KS/ks