

## DEEP CORRUGATED ALUMINUM SHEETS

### POLYFILM MOISTURE BARRIER

All the corrugated sheets that you get at Paragon Coating are having a top layer of PFMB or poly film moisture barrier. This PFMB is applied in the form of a paint coating and then heat lamination is done on top of it to make it ultra-resistant to corrosion. The PFMB layer is made using polyethylene and Surlyn. The total thickness here is not more than 3 mil with lesser thickness such as 1 or 2 mil possible too. We recommend doing this PFMB coating to make your aluminum deep corrugated sheets much more strong and resistant to corrosion and also prevent crevice and pitting from appearing.

### WHAT ARE THE LIMITATIONS IN USE FOR THE ALUMINUM DEEP CORRUGATED SHEETS?

It may not be the best solution for large boiler tank walls where rib sheets work best. It is not ideal for horizontal water tanks as the water can accumulate on the corrugation on the sheets and thus lead to corrosion quickly than anticipated. Aluminum deep corrugated sheets are also poor resistors to fire and thus where fire resistance is a major need this is not the best solution.

### SURFACE FINISHES

Various types of surface finishes are possible. These have already been mentioned above and are generally of the three main types. These are-

1. Smooth
2. Stucco Embossed
3. 3/16" 5 mm Corrugated

### EMMISSIVITY OF DEEP CORRUGATED SHEETS

The aluminum deep corrugated sheets manufactured at Paragon Coating have an emittance that meets the industrial standards as specified in the ASTM C1371.

1. Bare aluminum- 0.1
2. All colors painted except clear-0.8
3. Painted with clear coating- 0.5

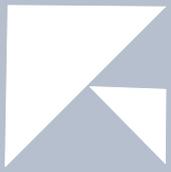
### FLAMMABILITY

We also conduct the flammability test on each of our manufactured deep aluminum corrugated sheets using the industry-standard procedure of the ASTM E84 test method. The results are not that significant-high if you want fire resistance on your deep corrugated sheets. Using stainless steel corrugated sheets is a much better option.

Anyways the results are given below-

1. ASTM E84 flame spread index- 0
2. ASTM E84 smoke develop index- 5

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### TEST

1. WVTR/PSMR
2. Tensile Strength Test
3. Mechanical Analysis
4. Pencil Hardness Test
5. T-Bend Test
6. Cross hatch Test
7. Impact Test
8. Adhesion Test

### FITTING AND INSTALLATION

You can refer to the sheet fit and measurements charts from Paragon Coating or for better consultation and fitting hire our fitting and installation team.

Our team takes care and because of being certified, experienced and with huge knowledge they will do the job without much hassle.

### SEALING OF JOINTS

The two adjacent pieces of deep corrugated aluminum sheets are placed side by side and then the gapping is sealed using a sealant. If want better sealing options then you can ask our installation team to weld the two adjacent pieces together. So consult with our experts and find out the type of sealing solution you need for the deep corrugated sheets.

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