

Frequently Asked Questions

1. **What are fittings used for?** The Most common applications of fittings are hand rail and guard rail. Many other pipe-structures such as retail store fixtures, soft contained play systems, awning, machinery framework or any imaginable structure.
2. **Can aluminum structural fittings be used with steel and stainless steel pipe?** Yes, the fittings can be used with any metal. Because these are made of Aluminum Magnesium Alloy which is corrosion resistant alloy, although most aluminum alloys will corrode when combined with a dissimilar metal like steel, stainless steel ect.
3. **Can fittings be used in corrosive environment?** Yes, fittings can be used in a corrosive environment, as these are made out of special alloy which is corrosive resistant.
4. **Can fittings be used in an extremely corrosive environment?** Yes, although the base metal is highly corrosive resistant, for extreme environment, it is recommended, the fittings be anodized and stainless steel set screws be used.
5. **What is anodized?** The anodizing process creates a coating, which is not only harder and more corrosive resistant than the vase metal, but also provides significant resistance to staining.
6. **Can fittings be used in a chlorine rich environment?** No. The chlorine aggressively attacks the aluminum, which can result in significant deterioration. It is recommended to use reinforced fiberglass railings or structures in this environment.
7. **What size pipe can be used with the fittings?** Our fittings are designed to suit IPS 3\4" to IPS 2".
8. **What does IPS mean?** IPS stands for "Iron Pipe Size" – A standard which was originally developed for fluid transfer, has also become the standard for handrail systems, both steel and aluminum.
9. **What wall thickness of pipe should be used?** The wall thickness depends upon the type of structure we are assembling; however, the wall thickness should never be less than the minimums listed below.
Steel Pipe – Schedule 10 or 14
Aluminum – Schedule 40 or 10
10. **What pipe materials can be used with our fittings?** Any metal pipe, including galvanized steel, stainless, black iron, aluminum, ect. Can be used with slip-on structural fittings.

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Academy Fence Company
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Schedule 40 Aluminum Pipe

<u>PIPE SIZE</u>	<u>PIPE I.D.</u>	<u>PIPE O.D.</u>	<u>PIPE WALL</u>	<u>POUNDS/FT.</u>
3/4"	.824	1.050	.113	.398
1"	1.049	1.315	.133	.581
1-1/4"	1.380	1.660	.140	.786
1-1/2"	1.610	1.900	.145	.940

* Other piping can be substituted as long as OD remains the same.

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