Insulation Mounting

The insulation pieces were initially held together with 3M Super 77 glue. Outdoor testing proved that the glue alone was not sufficient in holding the insulation tightly to the antenna. To eliminate the need for glue and simplify the assembly process, barbed pins (McMaster #92410A415) were used to fasten the insulation together. To hold the insulation to the antenna, 1.5" 3M Dual Lock hook and loop with acrylic adhesive was used. To fasten the hook and loop to the insulation, the insulation was first scratched with a steel brush to improve adhesion properties. The hook and loop was then installed on the foam with Loctite 454 in addition to the hook and loop adhesive to ensure adequate adhesion.