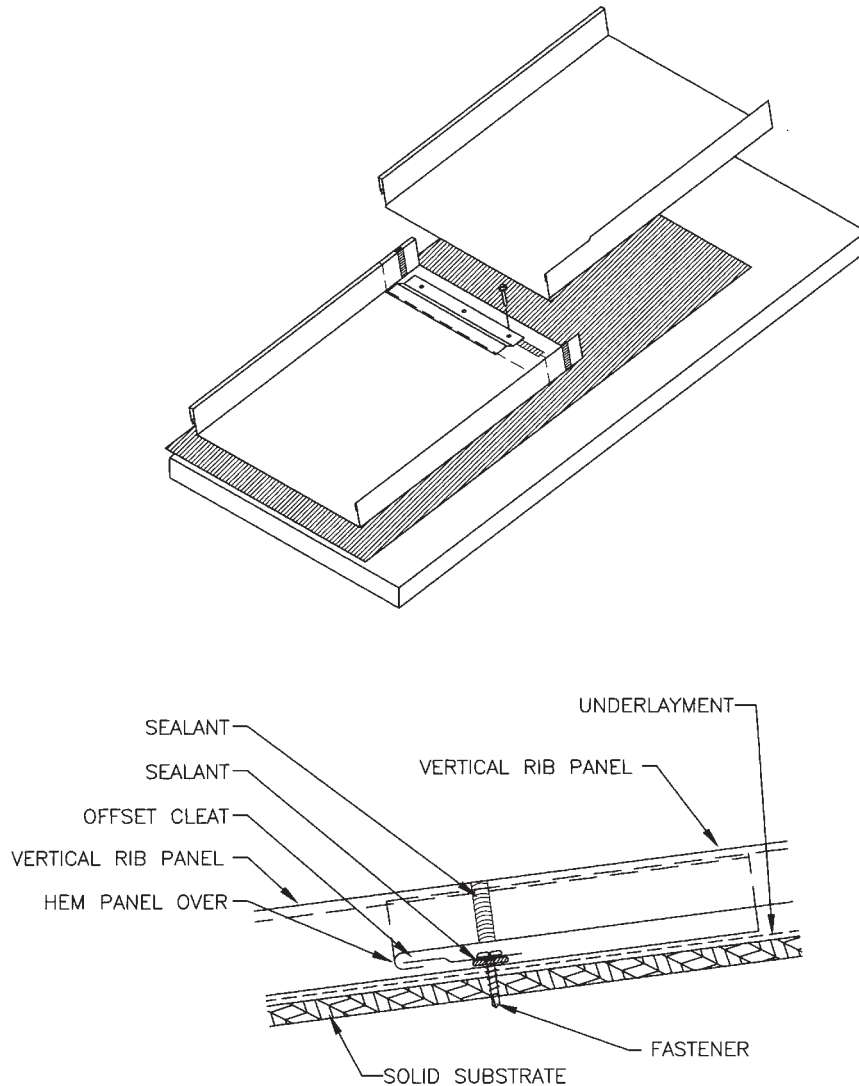


**FIGURE 6.44** Details of architectural vertical-rib roofing over solid substrate at fixed panel end lap. (MBMA.)

One also needs to remember that roofing with aluminum and zinc coatings should not be in direct contact with unprotected steel, to avoid galvanic action. A contact of such roofing with chemically treated wood decking can also be damaging; the two materials must be separated by a properly installed underlayment layer.

### 6.8.2 Paint Coatings

The clear-coated Galvalume panels are perfectly acceptable for industrial, warehouse, and similar utilitarian buildings covered with structural roofing. Some architects specify these silvery roofs for



**FIGURE 6.45** Details of architectural vertical-rib roofing over solid substrate at floating panel end lap. (MBMA.)

many other applications as well—even for high-end residential work. But for architectural roofing, and even for structural panels where another layer of protection is desired, a durable paint finish is typically used. The finishes are sprayed onto the metal and baked on at the factory. Paints for metal roofs are predominantly based on organic (carbon) compounds, such as polyester, acrylic, and fluorocarbon.

*Acrylic-* and *polyester-based* paints, common in residential use, are specified in the American Architectural Manufacturers Association (AAMA) standard 603. These synthetic polymers have a durable, abrasion-resistant surface. A slightly different, and better, product is *siliconized polyester*