Kite Pattern Rhombic Dodecahedron

I designed this robust rhombic dodecahedron, which is made from twenty four silver rectangles, in 1990. Although I drew diagrams at the time, and showed them to a few close friends, they have not been formally published until now. I subsequently developed this design into a similarly patterned triacontahedron.

Silver rectangles have edges in the proportion 1:√2. DIN paper sizes such as A4, A5 etc are good enough approximations of silver rectangles for practical paperfolding purposes.

You will see from page 2 of the diagrams that this is a self-template modular design. The modules are made in pairs and each is then used as a template to help fold the other.

If you use six silver triangles in each of four contrasting but complementary colours you can assemble the design so that each colour forms a band around the dodecahedron in the way shown in the picture above.

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