

ABSTRACT

ROOF PANELS

The present invention relates generally to a roof panel 10
5 including a pan 14 and a pair of opposing flanges 16 and
18, respectively. Each of the flanges 16 and 18 includes
an inwardly protruding and longitudinally extending cold
reduced rib such as 20 and 22. The ribs 20 and 22 are
shaped substantially identical to one another and formed
10 adjacent a free edge of the corresponding flanges 16 and
18. Adjacent roof panels 10 and 12 are connected together
via an elongate cap 24 which is fabricated on-site using a
conventional seaming machine. The roof panel 10 or 12 is
cold roll formed into the channel section profile using
15 conventional roll formers and techniques. The cold
reduction of the flanges such as 16 to deform the
longitudinal rib such as 20 involves differential
stretching of the flange 16 by compressing the flange 16
with a variable force. The cold reduction or stretching
20 of the flange 16 or 18 longitudinally precambers the
roofing panel 10 or 12. Corrugation of the flange 16 or
18 is designed to remove the precamber from the roof panel
10 or 12.

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(Drawing suggested to accompany abstract: Figure 1)