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Grain Conditioning Engineering Bulletin

Channellock Floor Application Update

The roll-former for the channellock floor has been completely retooled to develop a stronger channellock plank profile. The change in the profile of the channellock plank has resulted in an increase in the loading capacity of the floor.

The tooling redesign also incorporated a modification in the manner that the floor planks snap together. As a result, channellock floors can now be manufactured with 16 gauge steel. The profile and material changes have resulted in the improved loading characteristics for the channellock floor. The enhancements to the channellock floor have been made in a manner that still allows the revised floor to be installed with any planks from the original floor profile, if required.

The capability of the retooled roll-former has allowed the channellock floor planks to be manufactured from heavier steel. The application of the new steel options for the retooled roll-former was evaluated with load tests. The results from the tests have shown that two new channellock floor plank options are available for your applications as follows:

- A) For grain applications that use a standard perforation hole size of 0.094", channellock full floor and flush floor applications of the 16 gauge part is available to a grain depth of 110'.
- B) For grains that require a smaller perforation hole size, the addition of 18 gauge steel with a 0.054" perforation pattern, allows for channellock full floor and flush floor applications to a grain depth of 90'.