



The diagram is a technical cross-section of a conveyor system. At the top, a yellow chute is shown with material falling from it. A red arrow points from the text box to the side of the chute. Below the chute, a red triangle represents the material's weight, with red arrows pointing to the text box. To the right, a worker silhouette is shown next to a blue supporting beam, with a red arrow pointing from the text box to the beam. Below the chute, a red line indicates the angle of the material's path, with a red arrow pointing to the text box. At the bottom, two horizontal beams support the conveyor, with a red arrow pointing from the text box to them. The entire drawing is composed of various colored lines (yellow, blue, green, red, black) representing different components and annotations.

Material off this belt looks like it will hit side of chute. Depending on material this would cause a lot of wear.

these are chute supporting beam

cross section of material weight.

angle ~75 degrees

these are beams to support conveyor. my question is how to consider material plug load on conveyor when design these two beams?