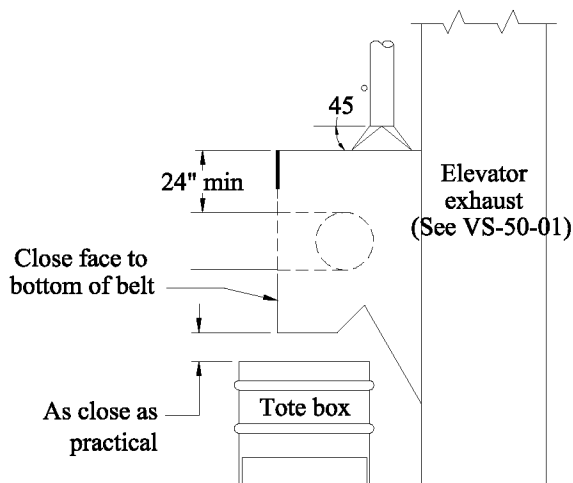
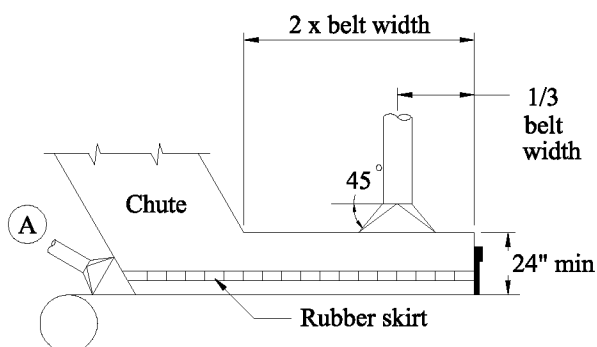


1. Conveyor transfer less than 3' fall. For greater fall, provide additional exhaust at lower belt. See 3 below.
 $h_e = 0.25 VP_d$



2. Conveyor to elevator with magnetic separator.
 $h_e = 0.25 VP_d$



3. Chute to belt transfer and conveyor transfer, greater than 3' fall. Use additional exhaust at (A) for dusty material as follows:
 Belt width 12"-36", $Q=700$ cfm
 Belt width above 36", $Q=1000$ cfm
 $h_e = 0.25 VP_d$

DESIGN DATA

Transfer points:

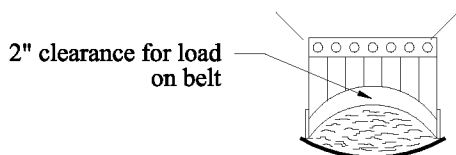
Enclose to provide 150 - 200 fpm indraft at all openings. (Underground mining tunnel ventilation will interfere with conveyor exhaust systems.)

$Q = 350$ cfm/ft belt width for belt speeds under 200 fpm. (minimum)
 $= 500$ cfm/ft belt width for belt speeds over 200 fpm and for magnetic separators. (minimum)

Minimum duct velocity = 3500 fpm
 $h_e = 0.25 VP_d$

Conveyor belts:

Cover belt between transfer points
 Exhaust at transfer points
 Exhaust additional 350 cfm/ft of belt width at 30' intervals. Use 45° tapered connections.



DETAIL OF BELT OPENING

Note: Dry, very dusty materials may require exhaust flowrates 1.5 to 2.0 times stated values.



TITLE

CONVEYOR BELT VENTILATION

FIGURE

VS-50-20

DATE

2-00