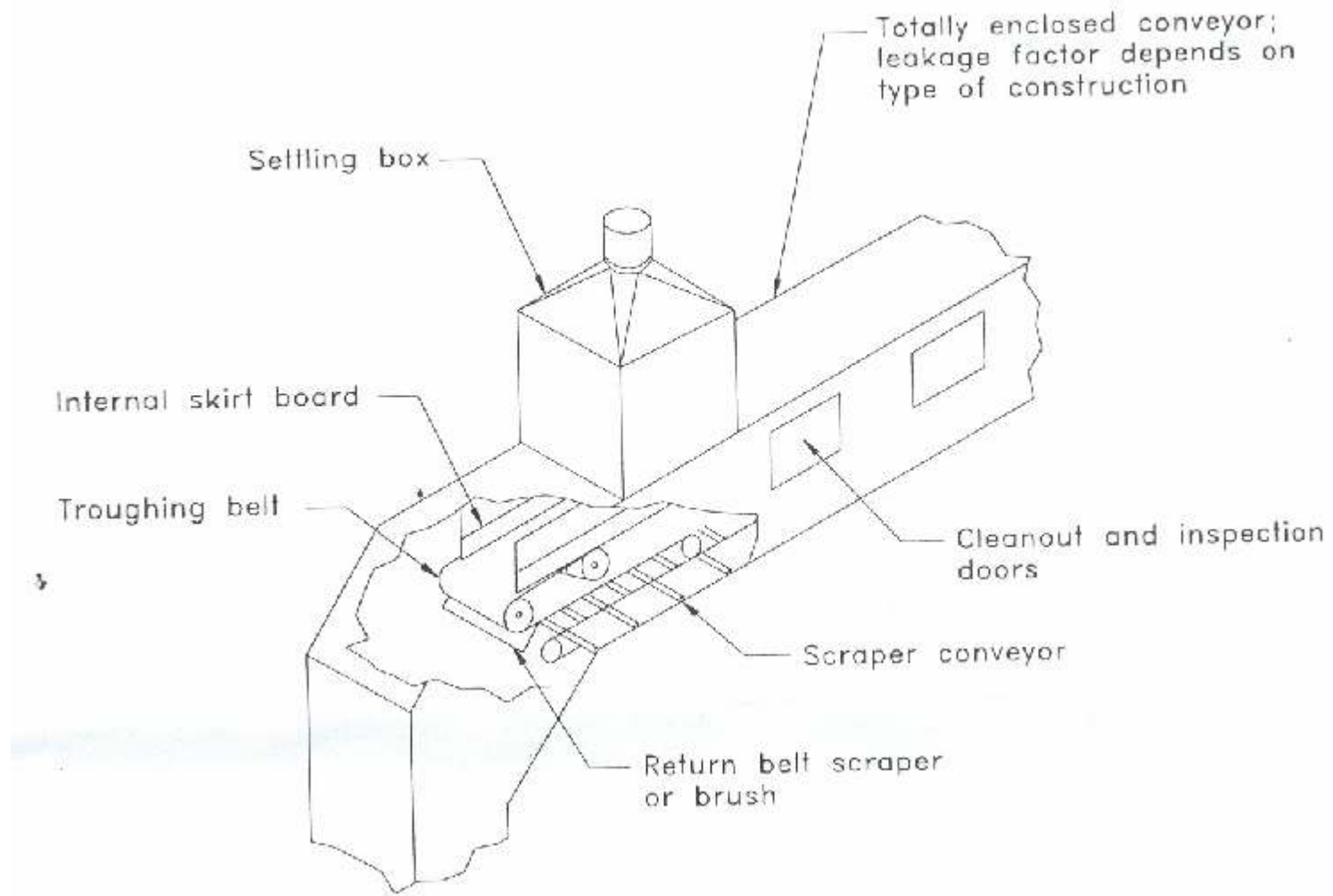
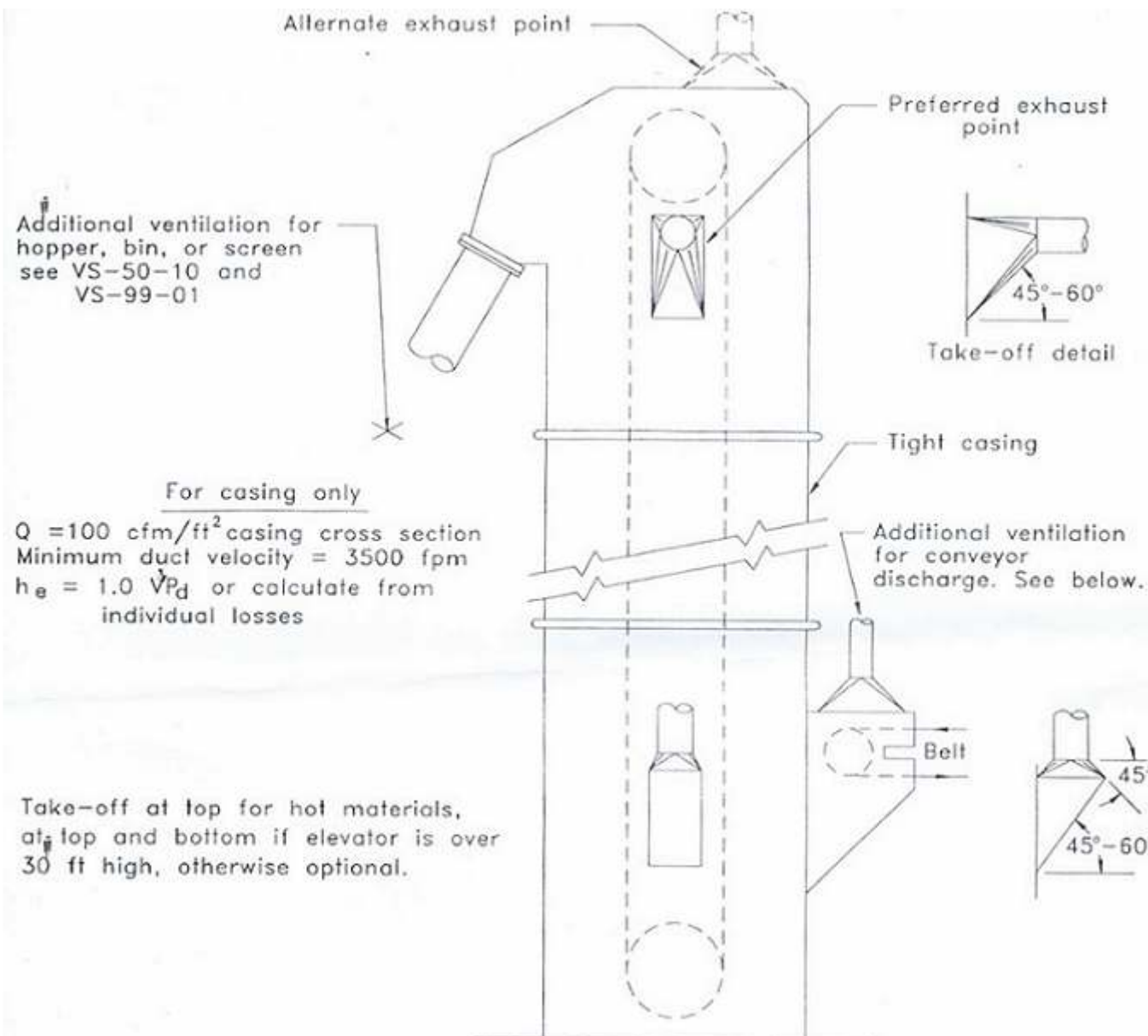
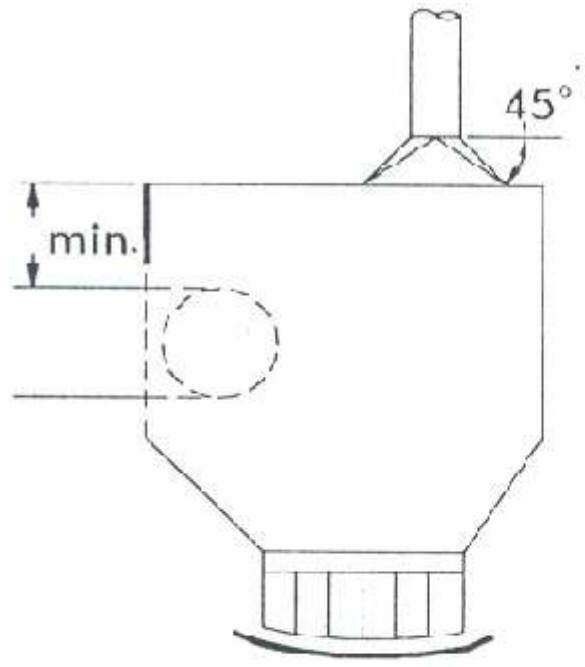


PUNTOS DE ASPIRACION EN ELEVADORES Y TRANSPORTADORES



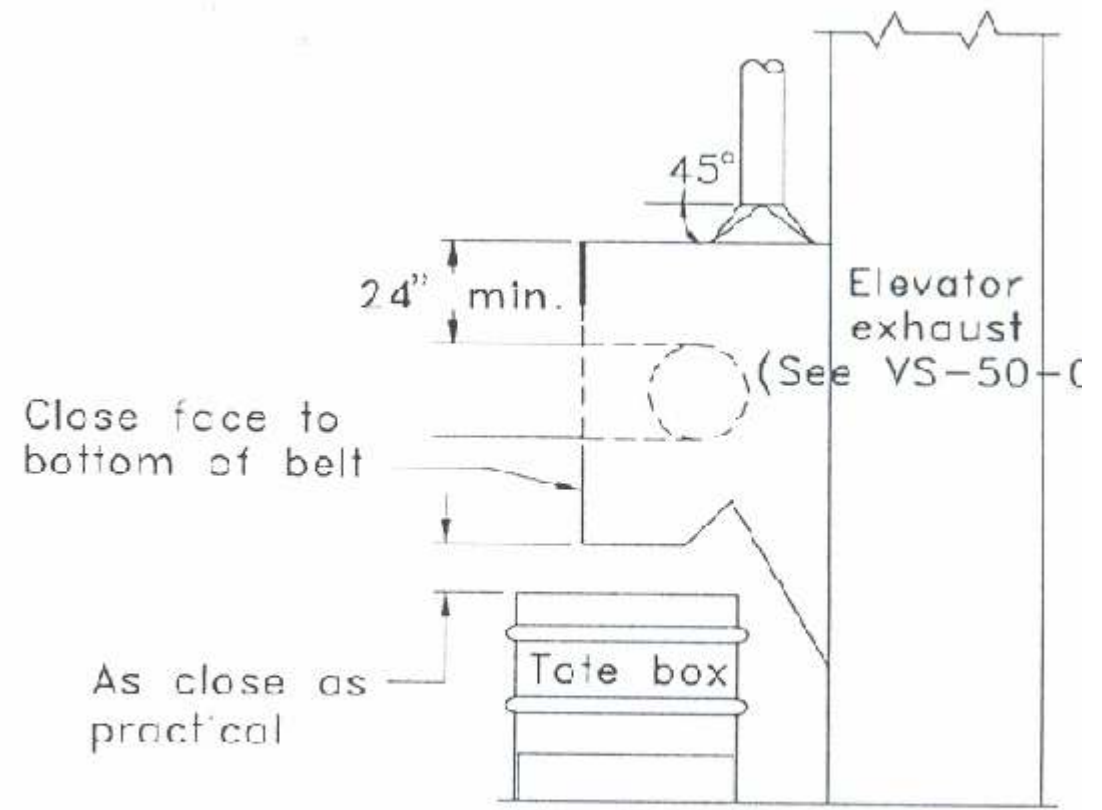


BELT SPEED	FLOW RATE
Less than 200 fpm	350 cfm/ft of belt width. Not less than 150 cfm/ft ² of opening.
Over 200 fpm	500 cfm/ft of belt width. Not less than 200 cfm/ft ² of opening.



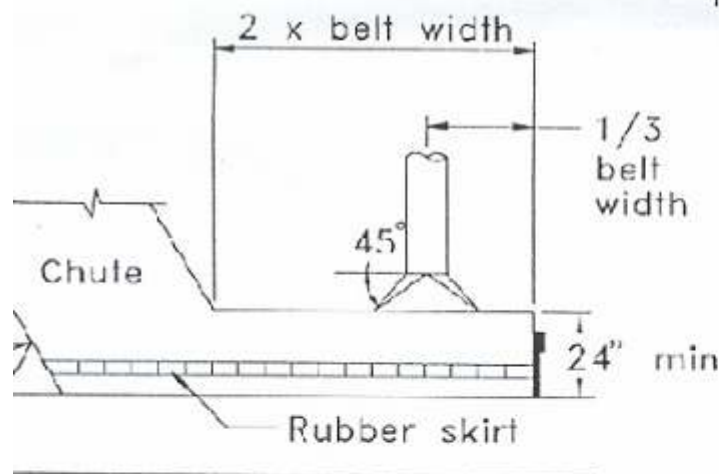
1. Conveyor transfer less than 3' fall. For greater fall, provide additional exhaust at lower belt. See 3 below.

$$h_e = 0.25 VP_d$$



2. Conveyor to elevator with magnetic separator.

$$h_e = 0.25 VP_d$$

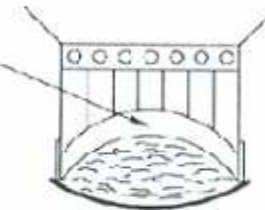


DESIGN DATA

Transfer points:

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

2" clearance for load on belt



DETAIL OF BELT OPENING

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

For dry, very dusty materials may require exhaust flow rates 1.5 to 2.0 times stated values.

$Q = 350$ 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.