Gutachten Norden-Norddeich

Anlage 2

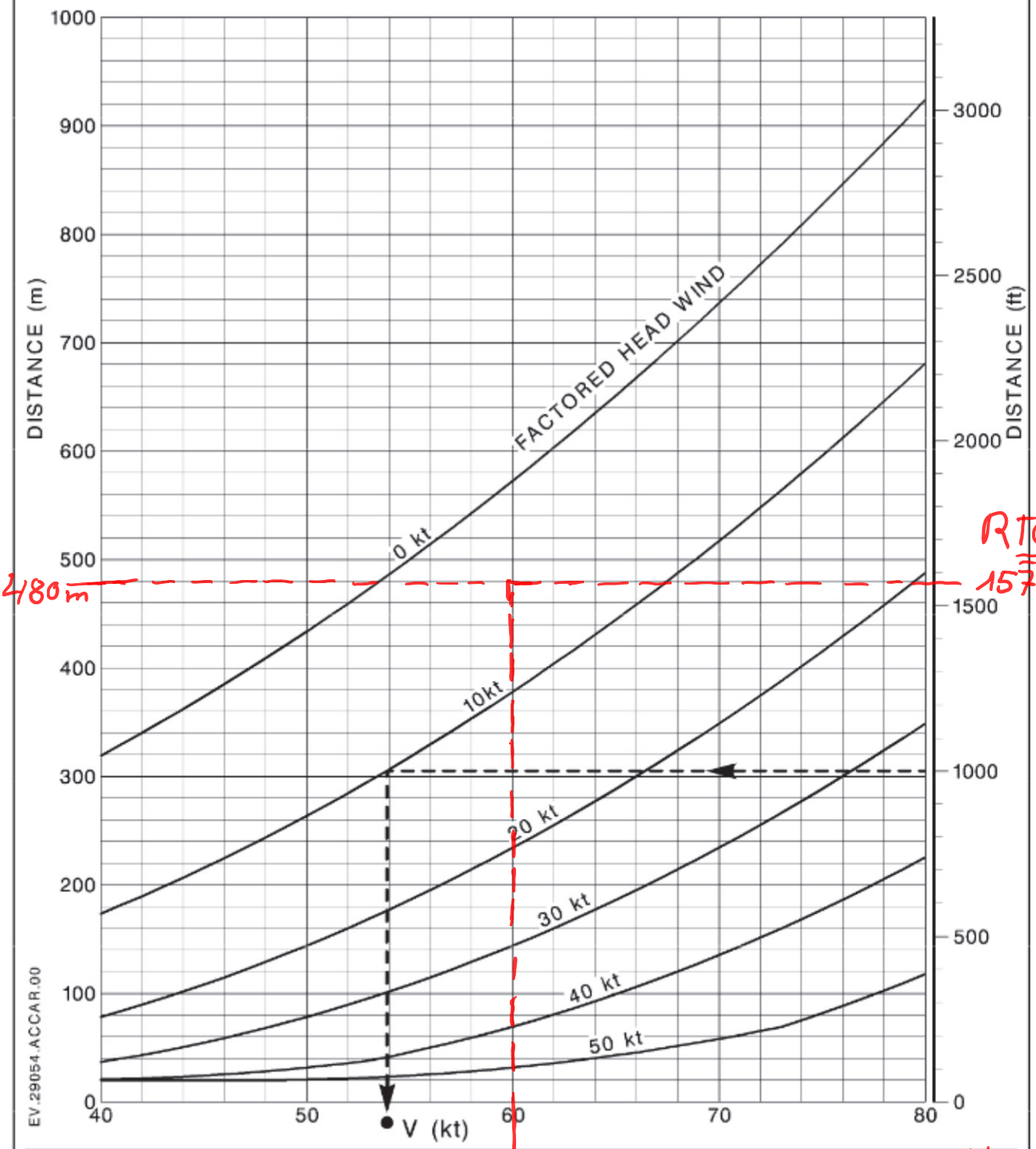
Diese Anlage besteht aus folgenden Diagrammen des FLM EC 155 B1:

Figure 5:	Rejected Take-Off Distance
Figure 9:	Take-Off Distance
Figure 38:	Weight Index
Figure 42:	Rate of Climb and Slope V_{TOSS} = 60
Figure 45:	kts Rate of Climb and Slope V_Y
Figure 46:	Distances
Figure 19:	Landing Distances

CONDITIONS

- TAKE OFF FROM CLEAR AREA
- MAXIMUM TAKEOFF WEIGHT
  (Figures 6, 7 and 8)

D1
REJECTED TAKEOFF DISTANCE



EXAMPLE :

DISTANCE = ~~1000 ft~~ 480m
WIND = ~~20 kt~~ 10 Kts
FACTORED HEAD WIND = ~~10 kt~~ 5 Kts

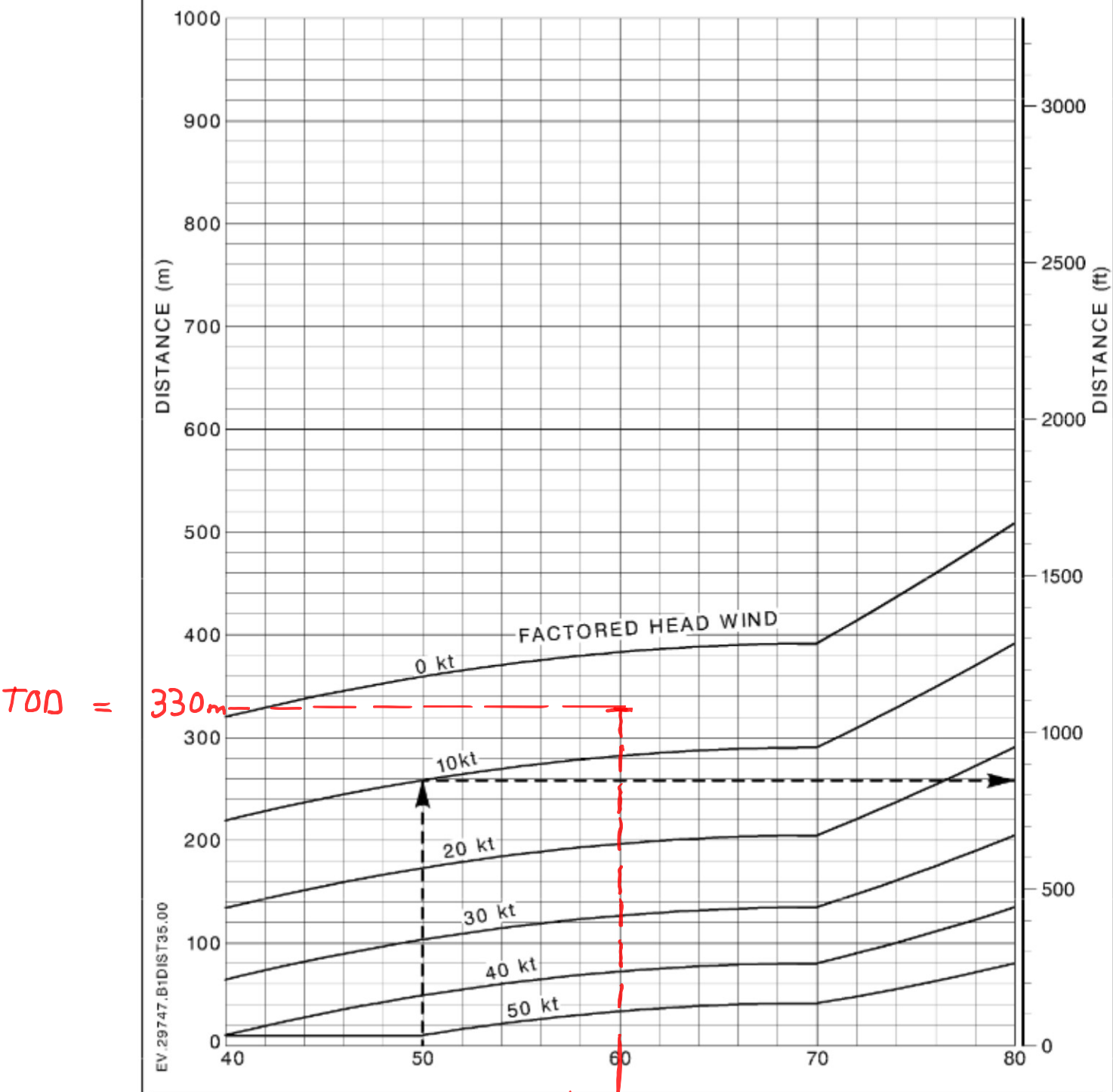
● ~~RESULT~~ V = ~~54 kt~~ 60 Kts
SELECTED VTOSS = ~~50 kt~~ 60Kts

Figure 5

CONDITIONS

- TAKE-OFF FROM CLEAR AREA
- MAXIMUM TAKEOFF WEIGHT
  (Figures 6,7 and 8)

D2
TAKE-OFF DISTANCE

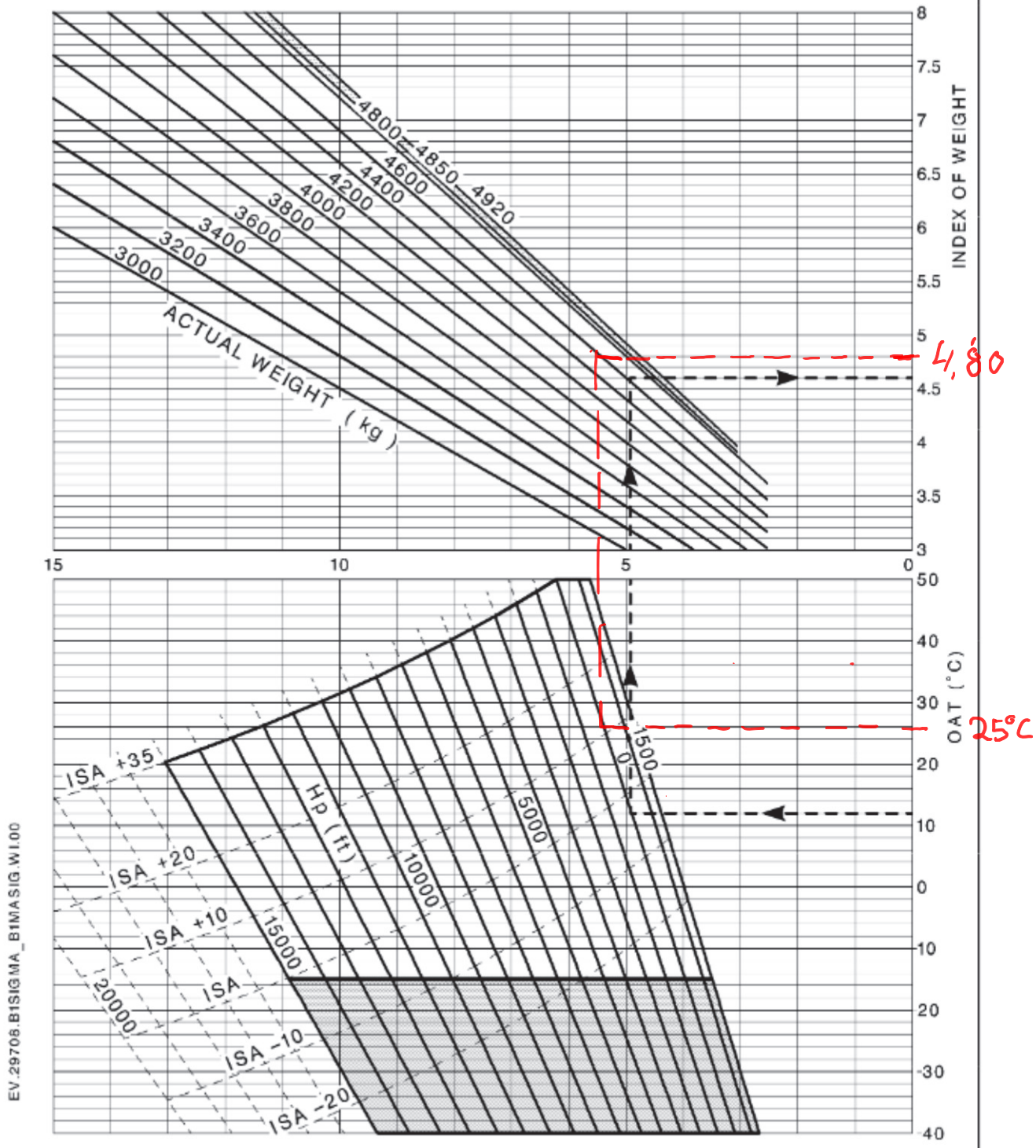


EXAMPLE : VTOSS = ~~50 kt~~ 60 kts
WIND = ~~20 kt~~ = 10 kts
FACTORED HEAD WIND = ~~10 kt~~ 5 kts
DISTANCE D2 = ~~850 ft~~ 330m

Figure 9

CONDITIONS
- NO CONDITION

INDEX OF WEIGHT FOR DETERMINING RATE OF CLIMB



EXAMPLE :

OAT = ~~12 °C~~ 25°C

Hp = 0 ft = 0ft

M = ~~4600 kg~~ = 4600 Kg

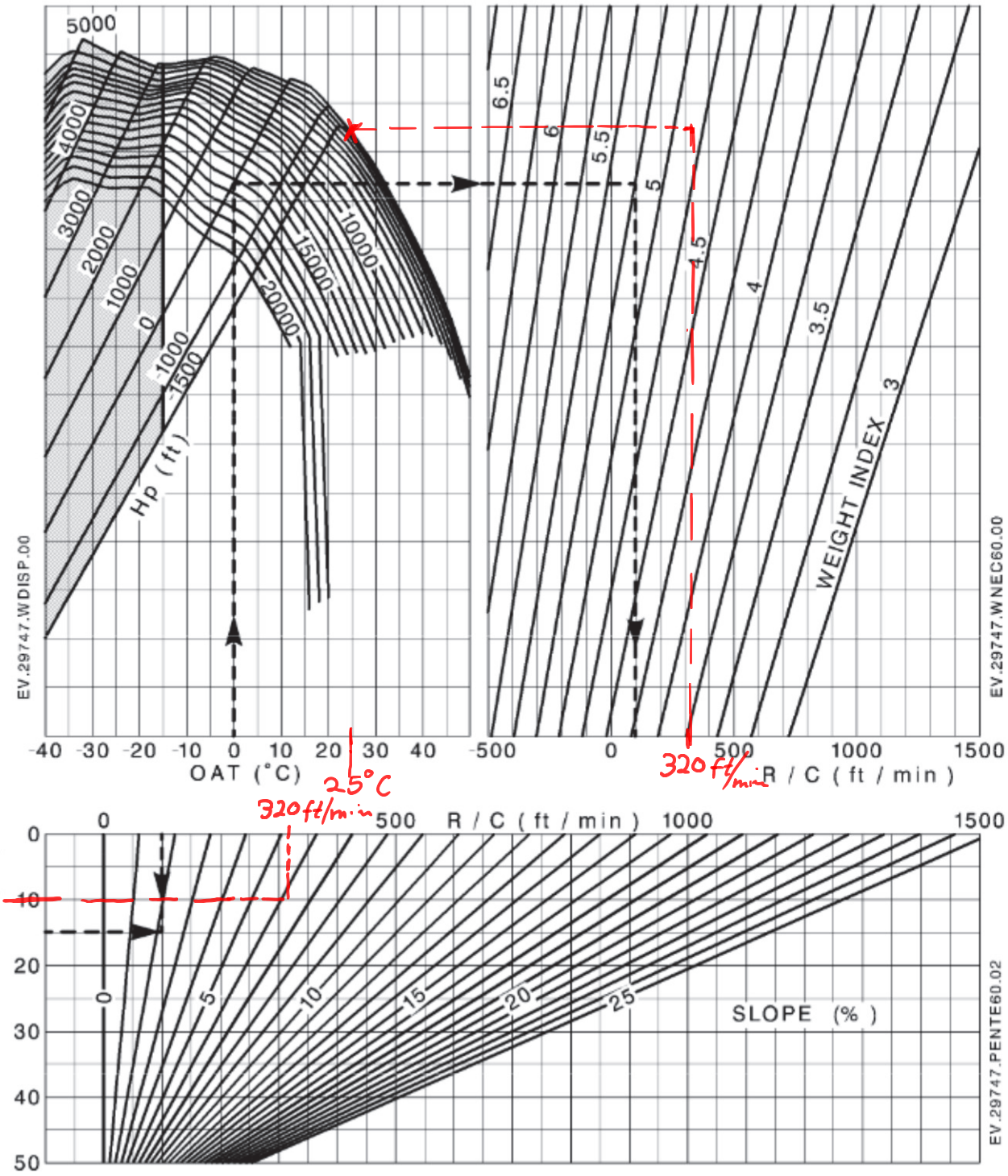
WEIGHT INDEX = ~~4.6~~ 4,8

Figure 38

CONDITIONS

- ONE ENGINE AT OEI 2 min RATING
- NO P2 AIR BLEED
- L/G DOWN
-
-
-
-

RATE OF CLIMB AND SLOPE
VTOSS = 60 kt



EXAMPLE :

OAT = ~~0°C~~ 25 Hp = 0 ft
INDEX OF WEIGHT = ~~5.25~~ 4.8
UNFACTORED WIND = ~~15 kt~~ 10 kts

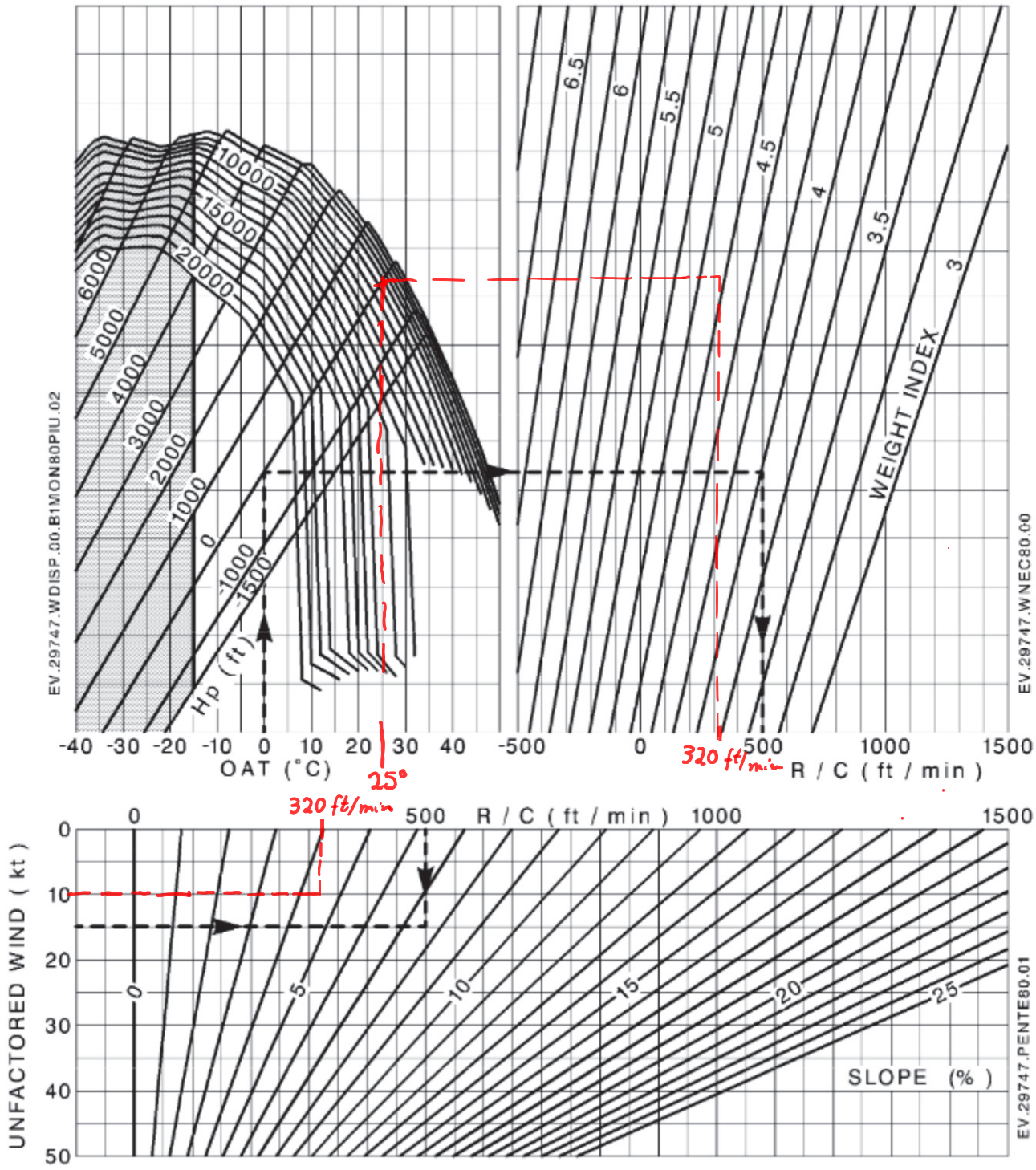
R/C = ~~100 ft/min~~ 320 ft/min
SLOPE = ~~2%~~ 6,2%

Figure 42

CONDITIONS

- ONE ENGINE AT OEI CONTINUOUS RATING
- NO P2 AIR BLEED
- L/G UP
-
-
-
-

RATE OF CLIMB AND SLOPE
Vy

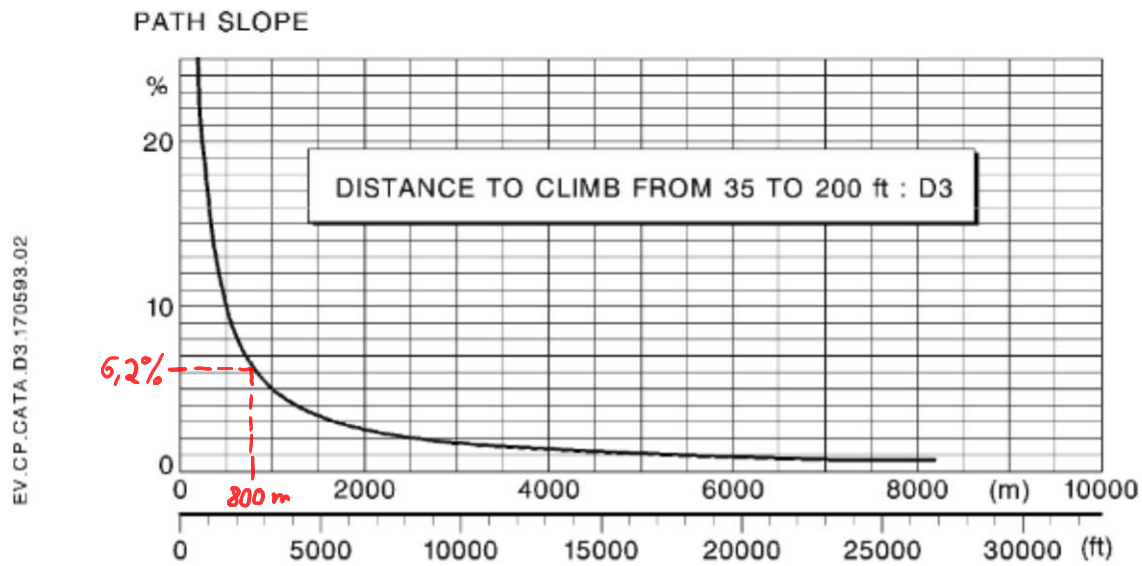


EXAMPLE :

OAT = ~~0°C~~ 25 Hp = 0 ft
INDEX OF WEIGHT = ~~3.75~~ 4,8
UNFACTORED WIND = ~~15kt~~ 10 kt

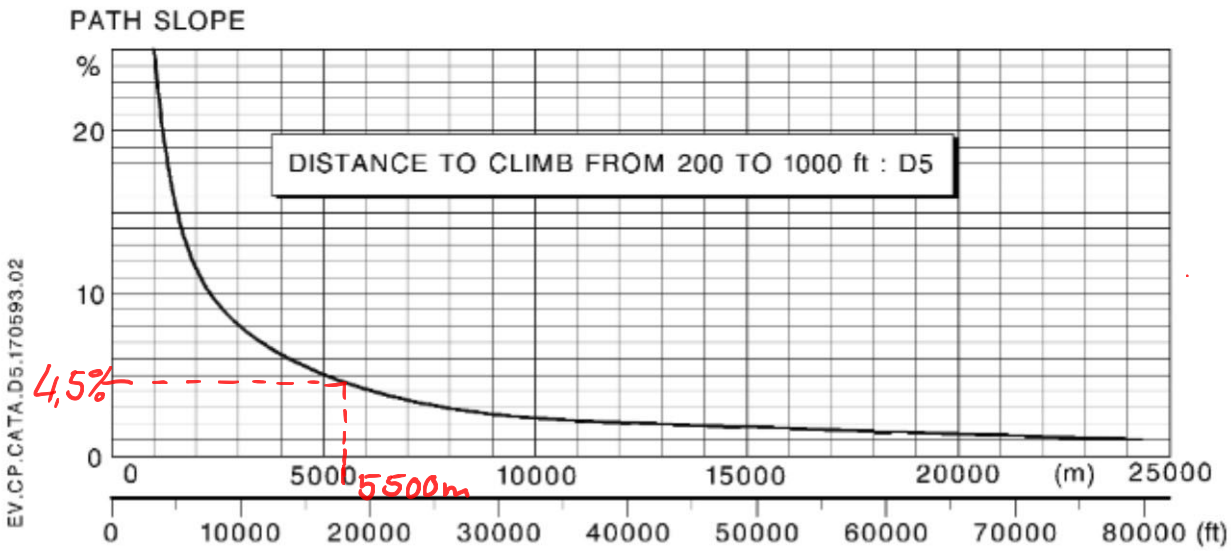
R/C = ~~500 ft/min~~ 320 ft/min
SLOPE = ~~7.8%~~ 4,5 %

Figure 45



DISTANCE TO ACCELERATE FROM VTOSS TO VY AT THE OEI CONTINUOUS RATING : D4

800 m (2625 ft)



NOTE

SLOPE COMPUTED THROUGH RATE OF CLIMB AND SLOPE FIGURE

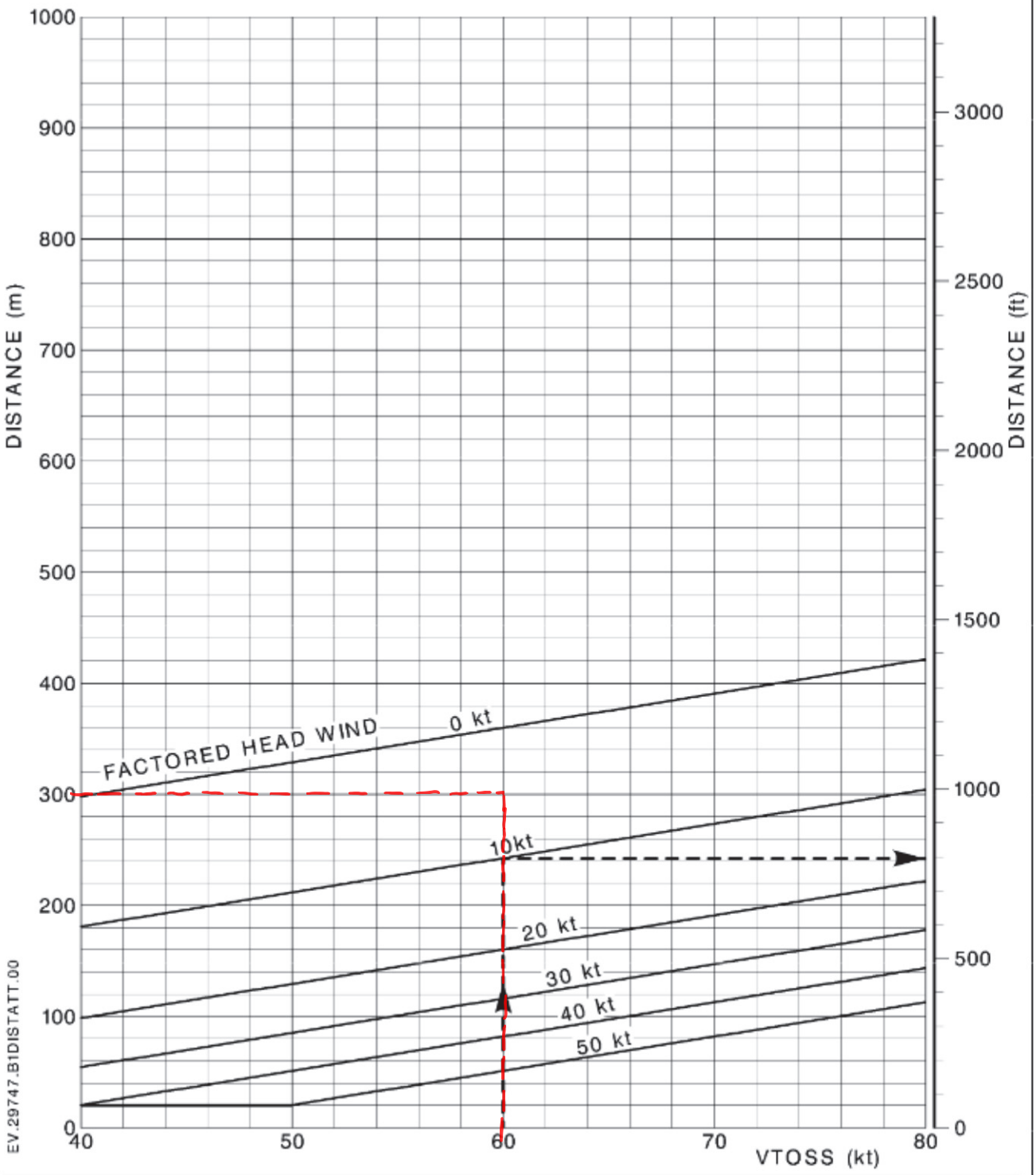
CLEAR AREA DETERMINATION OF DISTANCES D3 D4 AND D5

Figure 46

CONDITIONS

- SINGLE ENGINE OR TWIN-ENGINE LANDING ON CLEAR AREA
- MAXIMUM LANDING WEIGHT (Figure 18)
-
-
-

D6 OR D7 LANDING DISTANCES



EXAMPLE : V.TOSS = 60 kt
WIND = ~~20 kt~~ 10 Kts
FACTORED HEAD WIND = ~~10 kt~~ 5 Kts

DISTANCE D6 OR D7 = ~~800 ft~~ 300 m

Figure 19