

INFORMATION LEAFLET

PERFORMANCE CHARTS

FOR

PC-12/47E

CONTAMINATED RUNWAY DATA

LEAFLET NO. 02400

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GENERAL

This information leaflet provides the contaminated runway field performance data for the operation of the PC-12/47E aircraft fitted with a PT6A-67P engine and a Hartzell:

- Four-bladed propeller (E10477SK)
- Five-bladed propeller (NC10245B).

The field performance data presented in this information leaflet for contaminated runways is based on the following assumptions:

1. The contaminant is spread over the entire runway surface to an even depth (although rutting, for example, may have taken place).
2. The contaminant is of a uniform specific gravity.
3. Where the contaminant has been sanded, graded (mechanically levelled) or otherwise treated before use, that it has been done in accordance with agreed national procedures.

Data presented for contaminated runway conditions are approximate and are to be considered minimums, as actual runway conditions may require distances greater than those determined. Where possible, every effort should be made to make sure that the runway surface is cleared of any significant contamination.

The definitions of the different contaminants are given below.

Standing water

A surface condition where there is a layer of water between 3mm to 13mm should be considered as runway with water contaminant. Where the water depth is less than 3mm it is considered as a wet runway.

Slush

Partly melted snow or ice with a high water content, from which water can readily flow, with an assumed specific gravity of 0.85. Slush is normally a transient condition found only at temperature close to 0°C.

Snow

Fresh snow that can be blown, or, if compacted by hand, will fall apart upon release, commonly referred to as loose snow.

Compact snow

Snow which has been compressed into a solid mass such that the aircraft wheels, at representative operating pressures and loadings, will run on the surface without causing significant rutting.

Ice

Water which has frozen on the runway surface, including the condition where compacted snow transitions to a polished ice surface.

Contaminated runway performance

The required field distances on contaminated runways can be determined as follows:

First of all, determine the dry runway distance for takeoff, accelerate-stop or landing with the help of the performance charts supplied in section 5 of the AFM. Corrections for prevailing winds and runway gradient should be applied as necessary. Then use the tables provided in this Information Leaflet to determine the required distance for the actual contaminant type and depth.

EXAMPLE

| | | |
|-------------------------|---|----------------|
| Takeoff Mass | = | 4100 kg |
| Pressure Altitude | = | Sea Level |
| Outside Air Temperature | = | 25° C |
| Flaps Setting | = | 15° |
| Headwind Component | = | zero (calm) |
| Runway Gradient | = | 2% (uphill) |
| Runway Condition | = | 10 mm of water |

With a four-bladed propeller

From the AFM, Figure 5-2-13, the dry takeoff ground roll distance is 500 m and from Figure 5-2-15, the dry takeoff total distance is 760 m, V_R (V-rotate) = 77 kt, V_{50FT} (V-50-foot/Obstacle speed) = 95 kt.

With these figures at hand, the tables in this Information Leaflet are entered. From Table 2 it follows that a takeoff ground roll on a runway covered with 10 mm of water will require 980 m and the assumed total distance will be 1206 m (see Table 4). The takeoff reference speeds remain the same.

With a five-bladed propeller

From the AFM, Figure 5-3-13, the dry takeoff ground roll distance is 490 m and from Figure 5-3-15, the dry takeoff total distance is 780 m, V_R (V-rotate) = 78 kt, V_{50FT} (V-50-foot/Obstacle speed) = 97 kt.

With these distances the performance tables provided in this Information Leaflet are entered. It follows that a takeoff ground roll on a runway covered with 10 mm of water (Table 2) will require 960 m and the assumed total distance of 1238 m (Table 4). The takeoff reference speeds remain the same.

Accelerate-stop distance and landing distance are derived analogically by looking up the respective performance chart in the AFM and referring to its corresponding table in this Information Leaflet. The tables are provided in metric and imperial units for convenience.

NOTES

The information in this document should be considered as practical guidance material available for contaminated runway conditions. This advisory information has not been submitted by Pilatus to any Civil Airworthiness Authority for approval.

Contaminant depths greater than those presented should be avoided.

The presented limits on wind and runway slope must be observed.

Landing with tailwind on contaminated runways is not recommended.

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**



TAKEOFF GROUND ROLL DISTANCE - FEET

FLAPS 15°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|----------------|------|------|------|------|----------------|------|------|------|------|----------------------|------|-----------------|------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 500 | 880 | 1020 | 1040 | 980 | 920 | 920 | 850 | 980 | 1040 | 1220 | 880 | 960 | 890 | 500 |
| 700 | 1230 | 1430 | 1450 | 1380 | 1290 | 1220 | 1190 | 1380 | 1510 | 1840 | 1170 | 1350 | 1180 | 700 |
| 900 | 1580 | 1830 | 1860 | 1770 | 1650 | 1520 | 1530 | 1770 | 1980 | 2460 | 1450 | 1730 | 1470 | 900 |
| 1100 | 1930 | 2240 | 2270 | 2160 | 1910 | 1820 | 1870 | 2160 | 2450 | 3080 | 1730 | 2110 | 1760 | 1100 |
| 1300 | 2280 | 2640 | 2690 | 2550 | 2080 | 2120 | 2200 | 2550 | 2910 | 3700 | 2020 | 2500 | 2050 | 1300 |
| 1500 | 2630 | 3050 | 3100 | 2940 | 2250 | 2420 | 2540 | 2940 | 3380 | 4310 | 2300 | 2880 | 2340 | 1500 |
| 1700 | 2980 | 3450 | 3510 | 3260 | 2420 | 2720 | 2880 | 3340 | 3850 | 4930 | 2590 | 3260 | 2630 | 1700 |
| 1900 | 3330 | 3860 | 3920 | 3400 | 2590 | 3020 | 3220 | 3730 | 4320 | 5550 | 2870 | 3650 | 2920 | 1900 |
| 2100 | 3680 | 4270 | 4340 | 3530 | 2760 | 3320 | 3560 | 4120 | 4780 | 6170 | 3160 | 4030 | 3210 | 2100 |
| 2300 | 4030 | 4670 | 4750 | 3670 | 2930 | 3620 | 3900 | 4510 | 5250 | | 3440 | 4410 | 3500 | 2300 |
| 2500 | 4380 | 5080 | 5160 | 3800 | 3100 | 3920 | 4240 | 4900 | 5720 | | 3730 | 4800 | 3780 | 2500 |
| 2700 | 4730 | 5480 | 5480 | 3940 | 3270 | 4220 | 4570 | 5300 | 6190 | | 4010 | 5180 | 4070 | 2700 |
| 2900 | 5080 | 5890 | 5640 | 4080 | 3440 | 4520 | 4910 | 5690 | | | 4300 | 5560 | 4360 | 2900 |
| 3100 | 5430 | 6290 | 5790 | 4210 | 3610 | 4820 | 5250 | 6080 | | | 4580 | 5950 | 4650 | 3100 |
| 3300 | 5780 | | 5950 | 4350 | 3780 | 5120 | 5590 | | | | 4870 | 6330 | 4940 | 3300 |
| 3500 | 6170 | | 6110 | 4480 | 3960 | 5420 | 5930 | | | | 5150 | | 5230 | 3500 |
| 3700 | | | | 4620 | 4130 | 5720 | 6270 | | | | 5430 | | 5520 | 3700 |
| 3900 | | | | 4760 | 4300 | 6020 | | | | | 5720 | | 5810 | 3900 |
| 4100 | | | | 4890 | 4470 | | | | | | 6000 | | 6100 | 4100 |
| 4300 | | | | 5030 | 4640 | | | | | | | | | 4300 |
| 4500 | | | | 5160 | 4810 | | | | | | | | | 4500 |
| 4700 | | | | 5300 | 4980 | | | | | | | | | 4700 |
| 4900 | | | | 5440 | 5150 | | | | | | | | | 4900 |
| 5100 | | | | 5570 | 5320 | | | | | | | | | 5100 |
| 5300 | | | | 5710 | 5490 | | | | | | | | | 5300 |
| 5500 | | | | 5840 | 5660 | | | | | | | | | 5500 |
| 5700 | | | | 5980 | 5830 | | | | | | | | | 5700 |
| 5900 | | | | 6120 | 6000 | | | | | | | | | 5900 |
| 6000 | | | | | | | | | | | | | | 6000 |

Table 1. Takeoff Ground Roll – Flaps 15° (Standard Units)

TAKEOFF GROUND ROLL DISTANCE - METERS

FLAPS 15°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 200 | 350 | 410 | 410 | 390 | 370 | 350 | 340 | 390 | 430 | 520 | 330 | 380 | 340 | 200 |
| 250 | 440 | 510 | 520 | 490 | 460 | 430 | 420 | 490 | 540 | 670 | 410 | 480 | 410 | 250 |
| 300 | 530 | 610 | 620 | 590 | 550 | 500 | 510 | 590 | 660 | 830 | 480 | 580 | 480 | 300 |
| 350 | 610 | 710 | 720 | 690 | 590 | 580 | 590 | 690 | 780 | 980 | 550 | 670 | 560 | 350 |
| 400 | 700 | 810 | 830 | 780 | 640 | 650 | 680 | 780 | 900 | 1140 | 620 | 770 | 630 | 400 |
| 450 | 790 | 910 | 930 | 880 | 680 | 730 | 760 | 880 | 1010 | 1290 | 690 | 860 | 700 | 450 |
| 500 | 880 | 1010 | 1030 | 980 | 720 | 800 | 850 | 980 | 1130 | 1450 | 760 | 960 | 770 | 500 |
| 550 | 960 | 1120 | 1130 | 1010 | 760 | 880 | 930 | 1080 | 1250 | 1600 | 830 | 1050 | 850 | 550 |
| 600 | 1050 | 1220 | 1240 | 1050 | 810 | 950 | 1020 | 1180 | 1360 | 1750 | 900 | 1150 | 920 | 600 |
| 650 | 1140 | 1320 | 1340 | 1080 | 850 | 1030 | 1100 | 1270 | 1480 | 1910 | 980 | 1250 | 990 | 650 |
| 700 | 1230 | 1420 | 1440 | 1120 | 890 | 1100 | 1180 | 1370 | 1600 | 2060 | 1050 | 1340 | 1060 | 700 |
| 750 | 1310 | 1520 | 1550 | 1150 | 930 | 1180 | 1270 | 1470 | 1710 | | 1120 | 1440 | 1130 | 750 |
| 800 | 1400 | 1620 | 1650 | 1180 | 980 | 1250 | 1350 | 1570 | 1830 | | 1190 | 1530 | 1210 | 800 |
| 850 | 1490 | 1720 | 1690 | 1220 | 1020 | 1330 | 1440 | 1670 | 1950 | | 1260 | 1630 | 1280 | 850 |
| 900 | 1580 | 1830 | 1730 | 1250 | 1060 | 1400 | 1520 | 1760 | 2060 | | 1330 | 1730 | 1350 | 900 |
| 950 | 1660 | 1930 | 1770 | 1290 | 1100 | 1480 | 1610 | 1860 | | | 1400 | 1820 | 1420 | 950 |
| 1000 | 1750 | 2030 | 1810 | 1320 | 1150 | 1550 | 1690 | 1960 | | | 1470 | 1920 | 1500 | 1000 |
| 1050 | 1850 | | 1850 | 1350 | 1190 | 1630 | 1780 | 2060 | | | 1540 | 2010 | 1570 | 1050 |
| 1100 | 1950 | | 1890 | 1390 | 1230 | 1700 | 1860 | | | | 1620 | | 1640 | 1100 |
| 1150 | 2040 | | 1930 | 1420 | 1280 | 1780 | 1950 | | | | 1690 | | 1710 | 1150 |
| 1200 | | | 1970 | 1460 | 1320 | 1850 | 2030 | | | | 1760 | | 1790 | 1200 |
| 1250 | | | 2010 | 1490 | 1360 | 1930 | | | | | 1830 | | 1860 | 1250 |
| 1300 | | | | 1520 | 1400 | 2000 | | | | | 1900 | | 1930 | 1300 |
| 1350 | | | | 1560 | 1450 | | | | | | 1960 | | 2000 | 1350 |
| 1400 | | | | 1590 | 1490 | | | | | | 2030 | | | 1400 |
| 1450 | | | | 1630 | 1530 | | | | | | | | | 1450 |
| 1500 | | | | 1660 | 1570 | | | | | | | | | 1500 |
| 1550 | | | | 1690 | 1620 | | | | | | | | | 1550 |
| 1600 | | | | 1730 | 1660 | | | | | | | | | 1600 |
| 1650 | | | | 1760 | 1700 | | | | | | | | | 1650 |
| 1700 | | | | 1800 | 1740 | | | | | | | | | 1700 |
| 1750 | | | | 1830 | 1790 | | | | | | | | | 1750 |
| 1800 | | | | 1860 | 1830 | | | | | | | | | 1800 |
| 1850 | | | | 1900 | 1870 | | | | | | | | | 1850 |
| 1900 | | | | 1930 | 1910 | | | | | | | | | 1900 |
| 1950 | | | | 1970 | 1960 | | | | | | | | | 1950 |
| 2000 | | | | 2000 | 2000 | | | | | | | | | 2000 |

Table 2. Takeoff Ground Roll – Flaps 15° (Metric Units)

CONTAMINATED RUNWAY DATA PERFORMANCE CHARTS

TAKEOFF TOTAL DISTANCE - FEET

FLAPS 15°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (50 FEET SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|---|----------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|----------------------|-------|-----------------|-------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1000 | 1470 | 1530 | 1600 | 1590 | 1540 | 1450 | 1410 | 1560 | 1710 | 1730 | 1470 | 1650 | 1550 | 1000 |
| 1400 | 2060 | 2150 | 2240 | 2230 | 2160 | 1990 | 1980 | 2190 | 2440 | 2450 | 1980 | 2230 | 2030 | 1400 |
| 1800 | 2640 | 2760 | 2880 | 2860 | 2660 | 2530 | 2540 | 2810 | 3180 | 3240 | 2490 | 2810 | 2520 | 1800 |
| 2200 | 3230 | 3370 | 3520 | 3500 | 2990 | 3070 | 3100 | 3430 | 3910 | 4110 | 2990 | 3390 | 3000 | 2200 |
| 2600 | 3820 | 3980 | 4160 | 4130 | 3310 | 3610 | 3670 | 4060 | 4650 | 4970 | 3500 | 3970 | 3490 | 2600 |
| 3000 | 4400 | 4590 | 4800 | 4580 | 3640 | 4150 | 4230 | 4680 | 5380 | 5840 | 4010 | 4550 | 3970 | 3000 |
| 3400 | 4990 | 5200 | 5440 | 4850 | 3960 | 4690 | 4800 | 5300 | 6120 | 6710 | 4510 | 5130 | 4460 | 3400 |
| 3800 | 5580 | 5820 | 6080 | 5120 | 4280 | 5230 | 5360 | 5930 | 6850 | 7570 | 5020 | 5710 | 4940 | 3800 |
| 4200 | 6160 | 6430 | 6720 | 5390 | 4610 | 5770 | 5920 | 6550 | 7590 | 8440 | 5530 | 6300 | 5430 | 4200 |
| 4600 | 6750 | 7040 | 7360 | 5660 | 4930 | 6310 | 6490 | 7170 | 8320 | 9310 | 6040 | 6880 | 5910 | 4600 |
| 5000 | 7340 | 7650 | 7940 | 5930 | 5260 | 6850 | 7050 | 7800 | 9060 | 10180 | 6540 | 7460 | 6400 | 5000 |
| 5400 | 7910 | 8260 | 8260 | 6200 | 5580 | 7390 | 7610 | 8420 | 9790 | | 7050 | 8040 | 6880 | 5400 |
| 5800 | 8480 | 8910 | 8580 | 6470 | 5910 | 7930 | 8180 | 9040 | 10520 | | 7560 | 8620 | 7370 | 5800 |
| 6200 | 9060 | 9590 | 8900 | 6730 | 6230 | 8470 | 8740 | 9670 | | | 8070 | 9200 | 7850 | 6200 |
| 6600 | 9630 | 10270 | 9220 | 7000 | 6600 | 9010 | 9300 | 10290 | | | 8570 | 9780 | 8340 | 6600 |
| 7000 | 10200 | | 9540 | 7270 | 7000 | 9550 | 9870 | | | | 9070 | 10360 | 8820 | 7000 |
| 7400 | | | 9860 | 7540 | 7400 | 9980 | 10310 | | | | 9530 | | 9310 | 7400 |
| 7800 | | | 10180 | 7810 | 7800 | 10280 | | | | | 9960 | | 9790 | 7800 |
| 8200 | | | | 8200 | 8200 | | | | | | 10380 | | 10270 | 8200 |
| 8600 | | | | 8600 | 8600 | | | | | | | | | 8600 |
| 9000 | | | | 9000 | 9000 | | | | | | | | | 9000 |
| 9400 | | | | 9400 | 9400 | | | | | | | | | 9400 |
| 9800 | | | | 9800 | 9800 | | | | | | | | | 9800 |
| 10000 | | | | 10000 | 10000 | | | | | | | | | 10000 |

Table 3. Takeoff Total Distance – Flaps 15° (Standard Units)

TAKEOFF TOTAL DISTANCE - METERS

FLAPS 15°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (15 METER SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 400 | 590 | 610 | 640 | 640 | 620 | 570 | 560 | 620 | 690 | 700 | 570 | 640 | 590 | 400 |
| 500 | 730 | 760 | 800 | 790 | 770 | 710 | 700 | 780 | 880 | 880 | 690 | 790 | 710 | 500 |
| 600 | 880 | 920 | 960 | 950 | 850 | 840 | 850 | 930 | 1060 | 1100 | 820 | 930 | 830 | 600 |
| 700 | 1030 | 1070 | 1120 | 1110 | 930 | 980 | 990 | 1090 | 1250 | 1310 | 950 | 1080 | 950 | 700 |
| 800 | 1170 | 1220 | 1280 | 1270 | 1010 | 1110 | 1130 | 1250 | 1430 | 1530 | 1070 | 1220 | 1070 | 800 |
| 900 | 1320 | 1380 | 1440 | 1380 | 1090 | 1250 | 1270 | 1400 | 1610 | 1750 | 1200 | 1370 | 1190 | 900 |
| 1000 | 1470 | 1530 | 1600 | 1450 | 1180 | 1380 | 1410 | 1560 | 1800 | 1960 | 1330 | 1510 | 1310 | 1000 |
| 1100 | 1610 | 1680 | 1760 | 1520 | 1260 | 1520 | 1550 | 1710 | 1980 | 2180 | 1460 | 1660 | 1430 | 1100 |
| 1200 | 1760 | 1840 | 1920 | 1590 | 1340 | 1650 | 1690 | 1870 | 2160 | 2400 | 1580 | 1800 | 1560 | 1200 |
| 1300 | 1910 | 1990 | 2080 | 1650 | 1420 | 1790 | 1830 | 2030 | 2350 | 2610 | 1710 | 1950 | 1680 | 1300 |
| 1400 | 2050 | 2140 | 2240 | 1720 | 1500 | 1920 | 1970 | 2180 | 2530 | 2830 | 1840 | 2090 | 1800 | 1400 |
| 1500 | 2200 | 2290 | 2400 | 1790 | 1580 | 2060 | 2110 | 2340 | 2710 | 3050 | 1960 | 2240 | 1920 | 1500 |
| 1600 | 2340 | 2450 | 2480 | 1860 | 1660 | 2190 | 2250 | 2490 | 2900 | | 2090 | 2380 | 2040 | 1600 |
| 1700 | 2490 | 2600 | 2560 | 1920 | 1740 | 2330 | 2400 | 2650 | 3080 | | 2220 | 2530 | 2160 | 1700 |
| 1800 | 2630 | 2770 | 2640 | 1990 | 1830 | 2460 | 2540 | 2800 | | | 2340 | 2670 | 2280 | 1800 |
| 1900 | 2770 | 2940 | 2720 | 2060 | 1910 | 2600 | 2680 | 2960 | | | 2470 | 2820 | 2400 | 1900 |
| 2000 | 2920 | 3110 | 2800 | 2130 | 2000 | 2730 | 2820 | 3120 | | | 2600 | 2960 | 2530 | 2000 |
| 2100 | 3060 | | 2880 | 2190 | 2100 | 2870 | 2960 | | | | 2720 | 3110 | 2650 | 2100 |
| 2200 | | | 2960 | 2260 | 2200 | 3000 | 3100 | | | | 2840 | | 2770 | 2200 |
| 2300 | | | 3040 | 2330 | 2300 | | | | | | 2950 | | 2890 | 2300 |
| 2400 | | | | 2400 | 2400 | | | | | | 3060 | | 3010 | 2400 |
| 2500 | | | | 2500 | 2500 | | | | | | | | | 2500 |
| 2600 | | | | 2600 | 2600 | | | | | | | | | 2600 |
| 2700 | | | | 2700 | 2700 | | | | | | | | | 2700 |
| 2800 | | | | 2800 | 2800 | | | | | | | | | 2800 |
| 2900 | | | | 2900 | 2900 | | | | | | | | | 2900 |
| 3000 | | | | 3000 | 3000 | | | | | | | | | 3000 |

Table 4. Takeoff Total Distance – Flaps 15° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

TAKEOFF GROUND ROLL DISTANCE - FEET

FLAPS 30°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|----------------|------|------|------|------|----------------|------|------|------|------|----------------------|------|-----------------|------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 500 | 870 | 990 | 1070 | 900 | 950 | 970 | 940 | 960 | 900 | 1070 | 920 | 910 | 960 | 500 |
| 700 | 1220 | 1380 | 1430 | 1290 | 1390 | 1250 | 1250 | 1340 | 1260 | 1490 | 1210 | 1190 | 1260 | 700 |
| 900 | 1570 | 1780 | 1790 | 1670 | 2040 | 1530 | 1560 | 1720 | 1620 | 1920 | 1500 | 1470 | 1560 | 900 |
| 1100 | 1910 | 2170 | 2150 | 2060 | 2690 | 1810 | 1860 | 2100 | 1980 | 2340 | 1780 | 1760 | 1860 | 1100 |
| 1300 | 2260 | 2570 | 2510 | 2440 | 3330 | 2090 | 2170 | 2480 | 2340 | 2770 | 2070 | 2040 | 2160 | 1300 |
| 1500 | 2610 | 2960 | 2870 | 3080 | 3980 | 2370 | 2480 | 2870 | 2870 | 3520 | 2360 | 2320 | 2460 | 1500 |
| 1700 | 2950 | 3360 | 3290 | 3740 | 4630 | 2650 | 2790 | 3250 | 3400 | 4280 | 2650 | 2610 | 2770 | 1700 |
| 1900 | 3300 | 3750 | 3840 | 4390 | 5270 | 2930 | 3100 | 3630 | 3940 | 5050 | 2930 | 2890 | 3070 | 1900 |
| 2100 | 3650 | 4140 | 4390 | 5050 | 5920 | 3210 | 3410 | 4010 | 4470 | 5820 | 3220 | 3170 | 3370 | 2100 |
| 2300 | 4000 | 4540 | 4950 | 5710 | 6570 | 3490 | 3710 | 4390 | 5010 | 6590 | 3510 | 3460 | 3670 | 2300 |
| 2500 | 4340 | 4930 | 5500 | 6360 | | 3770 | 4020 | 4770 | 5540 | | 3800 | 3820 | 3970 | 2500 |
| 2700 | 4690 | 5330 | 6050 | | | 4050 | 4330 | 5150 | 6080 | | 4090 | 4180 | 4270 | 2700 |
| 2900 | 5040 | 5720 | | | | 4330 | 4640 | 5530 | | | 4370 | 4540 | 4580 | 2900 |
| 3100 | 5380 | 6120 | | | | 4610 | 4950 | 5920 | | | 4660 | 4900 | 4880 | 3100 |
| 3300 | 5730 | | | | | 4890 | 5260 | 6300 | | | 4950 | 5260 | 5180 | 3300 |
| 3500 | 6080 | | | | | 5170 | 5560 | | | | 5240 | 5630 | 5480 | 3500 |
| 3700 | | | | | | 5450 | 5870 | | | | 5520 | 5990 | 5780 | 3700 |
| 3900 | | | | | | 5730 | 6180 | | | | 5810 | 6350 | 6080 | 3900 |
| 4100 | | | | | | 6010 | | | | | 6100 | | | 4100 |
| 4300 | | | | | | | | | | | | | | 4300 |
| 4500 | | | | | | | | | | | | | | 4500 |
| 4700 | | | | | | | | | | | | | | 4700 |
| 4900 | | | | | | | | | | | | | | 4900 |
| 5100 | | | | | | | | | | | | | | 5100 |
| 5300 | | | | | | | | | | | | | | 5300 |
| 5500 | | | | | | | | | | | | | | 5500 |
| 5700 | | | | | | | | | | | | | | 5700 |
| 5900 | | | | | | | | | | | | | | 5900 |
| 6000 | | | | | | | | | | | | | | 6000 |

Table 5. Takeoff Ground Roll – Flaps 30° (Standard Units)

TAKEOFF GROUND ROLL DISTANCE - METERS

FLAPS 30°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 100 | 170 | 200 | 230 | 170 | 190 | 220 | 200 | 190 | 180 | 210 | 200 | 200 | 210 | 100 |
| 150 | 260 | 300 | 320 | 270 | 290 | 290 | 280 | 290 | 270 | 320 | 280 | 270 | 290 | 150 |
| 200 | 350 | 390 | 410 | 370 | 380 | 360 | 360 | 380 | 360 | 430 | 350 | 340 | 360 | 200 |
| 250 | 430 | 490 | 500 | 460 | 540 | 430 | 440 | 480 | 450 | 530 | 420 | 410 | 440 | 250 |
| 300 | 520 | 590 | 590 | 560 | 700 | 500 | 510 | 570 | 540 | 640 | 490 | 480 | 510 | 300 |
| 350 | 610 | 690 | 680 | 650 | 870 | 570 | 590 | 670 | 630 | 740 | 560 | 560 | 590 | 350 |
| 400 | 690 | 790 | 770 | 750 | 1030 | 640 | 670 | 760 | 720 | 850 | 640 | 630 | 660 | 400 |
| 450 | 780 | 890 | 860 | 910 | 1190 | 710 | 740 | 860 | 850 | 1040 | 710 | 700 | 740 | 450 |
| 500 | 870 | 990 | 950 | 1080 | 1350 | 780 | 820 | 950 | 990 | 1230 | 780 | 770 | 810 | 500 |
| 550 | 950 | 1080 | 1090 | 1240 | 1510 | 850 | 900 | 1050 | 1120 | 1430 | 850 | 840 | 890 | 550 |
| 600 | 1040 | 1180 | 1230 | 1410 | 1670 | 920 | 980 | 1140 | 1260 | 1620 | 920 | 910 | 970 | 600 |
| 650 | 1130 | 1280 | 1370 | 1570 | 1840 | 990 | 1050 | 1240 | 1390 | 1810 | 1000 | 980 | 1040 | 650 |
| 700 | 1210 | 1380 | 1500 | 1730 | 2000 | 1060 | 1130 | 1330 | 1520 | 2000 | 1070 | 1050 | 1120 | 700 |
| 750 | 1300 | 1480 | 1640 | 1900 | | 1130 | 1210 | 1430 | 1660 | | 1140 | 1140 | 1190 | 750 |
| 800 | 1390 | 1580 | 1780 | 2060 | | 1200 | 1280 | 1530 | 1790 | | 1210 | 1230 | 1270 | 800 |
| 850 | 1480 | 1680 | 1920 | | | 1270 | 1360 | 1620 | 1920 | | 1280 | 1320 | 1340 | 850 |
| 900 | 1560 | 1770 | 2060 | | | 1340 | 1440 | 1720 | 2060 | | 1350 | 1410 | 1420 | 900 |
| 950 | 1650 | 1870 | | | | 1410 | 1510 | 1810 | | | 1430 | 1500 | 1490 | 950 |
| 1000 | 1740 | 1970 | | | | 1480 | 1590 | 1910 | | | 1500 | 1590 | 1570 | 1000 |
| 1050 | 1820 | 2070 | | | | 1550 | 1670 | 2000 | | | 1570 | 1680 | 1640 | 1050 |
| 1100 | 1910 | | | | | 1620 | 1750 | | | | 1640 | 1770 | 1720 | 1100 |
| 1150 | 2000 | | | | | 1690 | 1820 | | | | 1710 | 1860 | 1790 | 1150 |
| 1200 | | | | | | 1760 | 1900 | | | | 1790 | 1950 | 1870 | 1200 |
| 1250 | | | | | | 1830 | 1950 | | | | 1860 | 2040 | 1940 | 1250 |
| 1300 | | | | | | 1900 | 2000 | | | | 1930 | | 2010 | 1300 |
| 1350 | | | | | | 1960 | 2050 | | | | 1990 | | | 1350 |
| 1400 | | | | | | 2020 | 2100 | | | | 2060 | | | 1400 |
| 1450 | | | | | | | 2150 | | | | | | | 1450 |
| 1500 | | | | | | | | | | | | | | 1500 |
| 1550 | | | | | | | | | | | | | | 1550 |
| 1600 | | | | | | | | | | | | | | 1600 |
| 1650 | | | | | | | | | | | | | | 1650 |
| 1700 | | | | | | | | | | | | | | 1700 |
| 1750 | | | | | | | | | | | | | | 1750 |
| 1800 | | | | | | | | | | | | | | 1800 |
| 1850 | | | | | | | | | | | | | | 1850 |
| 1900 | | | | | | | | | | | | | | 1900 |
| 1950 | | | | | | | | | | | | | | 1950 |
| 2000 | | | | | | | | | | | | | | 2000 |

Table 6. Takeoff Ground Roll – Flaps 30° (Metric Units)

CONTAMINATED RUNWAY DATA PERFORMANCE CHARTS

PILATUS
PC-12/47E

TAKEOFF TOTAL DISTANCE - FEET

FLAPS 30°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (50 FEET SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|---|----------------|-------|-------|-------|-------|----------------|-------|-------|-------|-------|----------------------|-------|-----------------|-------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1000 | 1490 | 1500 | 1630 | 1570 | 1700 | 1500 | 1530 | 1520 | 1540 | 1670 | 1500 | 1560 | 1580 | 1000 |
| 1400 | 2020 | 2100 | 2220 | 2220 | 2380 | 2000 | 2070 | 2120 | 2150 | 2340 | 2000 | 2090 | 2080 | 1400 |
| 1800 | 2550 | 2700 | 2820 | 2870 | 3210 | 2490 | 2620 | 2730 | 2760 | 3000 | 2490 | 2610 | 2580 | 1800 |
| 2200 | 3080 | 3300 | 3410 | 3520 | 4260 | 2990 | 3160 | 3330 | 3470 | 3850 | 2990 | 3140 | 3080 | 2200 |
| 2600 | 3600 | 3900 | 4010 | 4250 | 5310 | 3480 | 3700 | 3940 | 4230 | 4810 | 3480 | 3670 | 3580 | 2600 |
| 3000 | 4130 | 4500 | 4610 | 5090 | 6360 | 3980 | 4250 | 4540 | 4990 | 5780 | 3980 | 4200 | 4080 | 3000 |
| 3400 | 4660 | 5100 | 5260 | 5950 | 7400 | 4470 | 4790 | 5150 | 5760 | 6750 | 4470 | 4730 | 4580 | 3400 |
| 3800 | 5190 | 5700 | 6060 | 6800 | 8450 | 4970 | 5330 | 5750 | 6520 | 7710 | 4960 | 5260 | 5080 | 3800 |
| 4200 | 5720 | 6300 | 6850 | 7650 | 9500 | 5460 | 5880 | 6360 | 7280 | 8680 | 5460 | 5790 | 5580 | 4200 |
| 4600 | 6250 | 6900 | 7640 | 8510 | 10550 | 5950 | 6420 | 6960 | 8050 | 9650 | 5950 | 6320 | 6080 | 4600 |
| 5000 | 6840 | 7500 | 8440 | 9360 | | 6450 | 6960 | 7570 | 8810 | 10610 | 6450 | 6850 | 6580 | 5000 |
| 5400 | 7420 | 8100 | 9230 | 10210 | | 6940 | 7510 | 8170 | 9570 | | 6940 | 7370 | 7080 | 5400 |
| 5800 | 8010 | 8750 | 10030 | | | 7440 | 8050 | 8780 | 10340 | | 7440 | 7900 | 7580 | 5800 |
| 6200 | 8600 | 9420 | | | | 7930 | 8590 | 9380 | | | 7930 | 8370 | 8080 | 6200 |
| 6600 | 9190 | 10100 | | | | 8430 | 9050 | 9840 | | | 8430 | 8820 | 8580 | 6600 |
| 7000 | 9770 | | | | | 8920 | 9410 | 10140 | | | 8920 | 9270 | 9080 | 7000 |
| 7400 | 10360 | | | | | 9370 | 9770 | | | | 9390 | 9720 | 9580 | 7400 |
| 7800 | | | | | | 9770 | 10130 | | | | 9860 | 10170 | 10080 | 7800 |
| 8200 | | | | | | 10170 | | | | | 10330 | | | 8200 |
| 8600 | | | | | | | | | | | | | | 8600 |
| 9000 | | | | | | | | | | | | | | 9000 |
| 9400 | | | | | | | | | | | | | | 9400 |
| 9800 | | | | | | | | | | | | | | 9800 |
| 10000 | | | | | | | | | | | | | | 10000 |

Table 7. Takeoff Total Distance – Flaps 30° (Standard Units)

TAKEOFF TOTAL DISTANCE - METERS

FLAPS 30°

| ADVERSE RUNWAY TAKEOFF PERFORMANCE (15 METER SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 400 | 580 | 600 | 640 | 630 | 680 | 570 | 590 | 610 | 610 | 670 | 570 | 600 | 600 | 400 |
| 500 | 710 | 750 | 790 | 790 | 850 | 700 | 730 | 760 | 770 | 830 | 700 | 730 | 730 | 500 |
| 600 | 840 | 900 | 930 | 960 | 1110 | 820 | 870 | 910 | 920 | 1000 | 820 | 860 | 850 | 600 |
| 700 | 980 | 1050 | 1080 | 1120 | 1370 | 950 | 1000 | 1060 | 1110 | 1240 | 950 | 1000 | 980 | 700 |
| 800 | 1110 | 1200 | 1230 | 1310 | 1640 | 1070 | 1140 | 1210 | 1300 | 1480 | 1070 | 1130 | 1100 | 800 |
| 900 | 1240 | 1350 | 1380 | 1520 | 1900 | 1190 | 1270 | 1360 | 1490 | 1730 | 1190 | 1260 | 1230 | 900 |
| 1000 | 1370 | 1500 | 1530 | 1730 | 2160 | 1320 | 1410 | 1510 | 1680 | 1970 | 1320 | 1390 | 1350 | 1000 |
| 1100 | 1500 | 1650 | 1730 | 1950 | 2420 | 1440 | 1540 | 1660 | 1870 | 2210 | 1440 | 1520 | 1480 | 1100 |
| 1200 | 1640 | 1800 | 1930 | 2160 | 2680 | 1560 | 1680 | 1820 | 2070 | 2450 | 1560 | 1660 | 1600 | 1200 |
| 1300 | 1770 | 1950 | 2130 | 2370 | 2950 | 1690 | 1820 | 1970 | 2260 | 2690 | 1690 | 1790 | 1730 | 1300 |
| 1400 | 1900 | 2100 | 2320 | 2590 | 3210 | 1810 | 1950 | 2120 | 2450 | 2930 | 1810 | 1920 | 1850 | 1400 |
| 1500 | 2050 | 2250 | 2520 | 2800 | | 1930 | 2090 | 2270 | 2640 | 3180 | 1930 | 2050 | 1980 | 1500 |
| 1600 | 2190 | 2400 | 2720 | 3010 | | 2060 | 2220 | 2420 | 2830 | | 2060 | 2190 | 2100 | 1600 |
| 1700 | 2340 | 2550 | 2920 | | | 2180 | 2360 | 2570 | 3020 | | 2180 | 2320 | 2230 | 1700 |
| 1800 | 2490 | 2720 | 3120 | | | 2310 | 2500 | 2720 | | | 2310 | 2450 | 2350 | 1800 |
| 1900 | 2630 | 2890 | | | | 2430 | 2630 | 2870 | | | 2430 | 2560 | 2480 | 1900 |
| 2000 | 2780 | 3060 | | | | 2550 | 2750 | 2990 | | | 2550 | 2680 | 2600 | 2000 |
| 2100 | 2930 | | | | | 2680 | 2840 | 3060 | | | 2680 | 2790 | 2730 | 2100 |
| 2200 | 3080 | | | | | 2800 | 2930 | | | | 2800 | 2900 | 2850 | 2200 |
| 2300 | | | | | | 2900 | 3020 | | | | 2910 | 3010 | 2980 | 2300 |
| 2400 | | | | | | 3000 | 3110 | | | | 3030 | | 3100 | 2400 |
| 2500 | | | | | | | 3200 | | | | | | | 2500 |
| 2600 | | | | | | | | | | | | | | 2600 |
| 2700 | | | | | | | | | | | | | | 2700 |
| 2800 | | | | | | | | | | | | | | 2800 |
| 2900 | | | | | | | | | | | | | | 2900 |
| 3000 | | | | | | | | | | | | | | 3000 |

Table 8. Takeoff Total Distance – Flaps 30° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

ACCELERATE-STOP DISTANCE - FEET

FLAPS 15°

| ADVERSE RUNWAY ACCELERATE-STOP PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|----------------|-------|-------|-------|-------|----------------|------|-------|-------|-------|----------------------|-------|-----------------|-------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1000 | 1890 | 1700 | 1600 | 1670 | 1550 | 1900 | 1780 | 1650 | 1580 | 1600 | 1830 | 1730 | 2330 | 3870 |
| 1400 | 2510 | 2290 | 2180 | 2240 | 2100 | 2530 | 2380 | 2240 | 2180 | 2240 | 2430 | 2290 | 3130 | 5290 |
| 1800 | 3130 | 2890 | 2770 | 2800 | 2650 | 3160 | 2990 | 2830 | 2770 | 2880 | 3030 | 2850 | 3930 | 6700 |
| 2200 | 3760 | 3490 | 3350 | 3360 | 3200 | 3780 | 3590 | 3420 | 3360 | 3520 | 3630 | 3410 | 4730 | 8120 |
| 2600 | 4380 | 4090 | 3940 | 3930 | 3760 | 4410 | 4190 | 4010 | 3950 | 4120 | 4230 | 3970 | 5530 | 9530 |
| 3000 | 5000 | 4690 | 4520 | 4490 | 4310 | 5040 | 4800 | 4600 | 4540 | 4660 | 4830 | 4530 | 6330 | 10950 |
| 3400 | 5620 | 5280 | 5110 | 5050 | 4860 | 5660 | 5400 | 5190 | 5140 | 5190 | 5430 | 5090 | 7130 | |
| 3800 | 6240 | 5880 | 5690 | 5610 | 5410 | 6290 | 6010 | 5780 | 5730 | 5730 | 6030 | 5650 | 7930 | |
| 4200 | 6870 | 6480 | 6280 | 6180 | 5960 | 6920 | 6610 | 6370 | 6320 | 6260 | 6620 | 6210 | 8730 | |
| 4600 | 7490 | 7080 | 6860 | 6740 | 6510 | 7550 | 7210 | 6960 | 6910 | 6790 | 7210 | 6770 | 9530 | |
| 5000 | 8110 | 7680 | 7450 | 7120 | 6970 | 8170 | 7820 | 7560 | 7470 | 7330 | 7810 | 7310 | 10330 | |
| 5400 | 8730 | 8270 | 7950 | 7510 | 7350 | 8800 | 8420 | 8150 | 7900 | 7860 | 8400 | 7770 | | |
| 5800 | 9360 | 8870 | 8310 | 7900 | 7740 | 9430 | 9030 | 8740 | 8320 | 8390 | 9000 | 8220 | | |
| 6200 | 9880 | 9470 | 8680 | 8290 | 8130 | 10060 | 9630 | 9330 | 8750 | 8930 | 9590 | 8670 | | |
| 6600 | 10360 | 9890 | 9040 | 8670 | 8510 | | | | 9180 | 9460 | 10180 | 9130 | | |
| 7000 | | 10290 | 9400 | 9060 | 8900 | | | 10510 | 9600 | 9990 | | 9580 | | |
| 7400 | | | 9760 | 9450 | 9290 | | | | 10030 | 10530 | | 10030 | | |
| 7800 | | | 10130 | 9840 | 9680 | | | | | | | | | |
| 8200 | | | | 10220 | 10060 | | | | | | | | | |
| 8600 | | | | | | | | | | | | | | |
| 9000 | | | | | | | | | | | | | | |
| 9400 | | | | | | | | | | | | | | |
| 9800 | | | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | |

Table 9. Accelerate-Stop Distance – Flaps 15° (Standard Units)

ACCELERATE-STOP DISTANCE - METERS

FLAPS 15°

| ADVERSE RUNWAY ACCELERATE-STOP PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 600 | 1030 | 960 | 920 | 920 | 880 | 1040 | 990 | 940 | 920 | 960 | 1000 | 940 | 1300 | 2220 |
| 700 | 1190 | 1110 | 1060 | 1070 | 1020 | 1200 | 1140 | 1080 | 1070 | 1120 | 1150 | 1080 | 1500 | 2580 |
| 800 | 1340 | 1260 | 1210 | 1210 | 1150 | 1350 | 1290 | 1230 | 1210 | 1270 | 1300 | 1220 | 1700 | 2930 |
| 900 | 1500 | 1410 | 1360 | 1350 | 1290 | 1510 | 1440 | 1380 | 1360 | 1400 | 1450 | 1360 | 1900 | 3280 |
| 1000 | 1660 | 1550 | 1500 | 1490 | 1430 | 1670 | 1590 | 1530 | 1510 | 1530 | 1600 | 1500 | 2100 | |
| 1100 | 1810 | 1700 | 1650 | 1630 | 1570 | 1830 | 1740 | 1680 | 1660 | 1670 | 1750 | 1640 | 2300 | |
| 1200 | 1970 | 1850 | 1800 | 1770 | 1710 | 1980 | 1890 | 1820 | 1810 | 1800 | 1900 | 1780 | 2500 | |
| 1300 | 2120 | 2000 | 1940 | 1910 | 1840 | 2140 | 2040 | 1970 | 1950 | 1930 | 2050 | 1920 | 2700 | |
| 1400 | 2280 | 2150 | 2090 | 2050 | 1980 | 2300 | 2190 | 2120 | 2100 | 2070 | 2190 | 2060 | 2900 | |
| 1500 | 2430 | 2300 | 2230 | 2150 | 2100 | 2450 | 2350 | 2270 | 2250 | 2200 | 2340 | 2200 | 3100 | |
| 1600 | 2590 | 2450 | 2380 | 2240 | 2200 | 2610 | 2500 | 2410 | 2360 | 2330 | 2490 | 2310 | | |
| 1700 | 2740 | 2600 | 2470 | 2340 | 2290 | 2770 | 2650 | 2560 | 2460 | 2470 | 2640 | 2430 | | |
| 1800 | 2900 | 2750 | 2560 | 2440 | 2390 | 2920 | 2800 | 2710 | 2570 | 2600 | 2790 | 2540 | | |
| 1900 | 3020 | 2900 | 2650 | 2530 | 2490 | 3080 | 2950 | 2860 | 2680 | 2730 | 2940 | 2650 | | |
| 2000 | | 3000 | 2740 | 2630 | 2580 | | 3100 | 3000 | 2780 | 2870 | 3090 | 2770 | | |
| 2100 | | | 2830 | 2730 | 2680 | | | | 2890 | 3000 | | 2880 | | |
| 2200 | | | 2920 | 2830 | 2780 | | | | 3000 | | | 2990 | | |
| 2300 | | | 3020 | 2920 | 2870 | | | | | | | 3110 | | |
| 2400 | | | | 3020 | 2970 | | | | | | | | | |
| 2500 | | | | | 3070 | | | | | | | | | |
| 2600 | | | | | | | | | | | | | | |
| 2700 | | | | | | | | | | | | | | |
| 2800 | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | | | | | | |

Table 10. Accelerate-Stop Distance – Flaps 15° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

ACCELERATE-STOP DISTANCE - FEET

FLAPS 30°

| ADVERSE RUNWAY ACCELERATE-STOP PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|-----------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|------------------------------|----------|-------------------------|------------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1000 | 1620 | 1490 | 1410 | 1470 | 1370 | 2000 | 1910 | 1910 | 1930 | 1820 | 1520 | 1600 | 2210 | 3530 |
| 1400 | 2150 | 2010 | 1920 | 1940 | 1850 | 2650 | 2570 | 2570 | 2560 | 2480 | 2060 | 2100 | 2960 | 4740 |
| 1800 | 2690 | 2520 | 2430 | 2420 | 2330 | 3290 | 3230 | 3230 | 3200 | 3140 | 2600 | 2610 | 3710 | 5950 |
| 2200 | 3230 | 3040 | 2950 | 2900 | 2810 | 3930 | 3890 | 3890 | 3840 | 3800 | 3140 | 3110 | 4460 | 7170 |
| 2600 | 3770 | 3550 | 3460 | 3380 | 3290 | 4570 | 4550 | 4550 | 4480 | 4460 | 3680 | 3620 | 5210 | 8380 |
| 3000 | 4310 | 4070 | 3970 | 3860 | 3770 | 5210 | 5210 | 5210 | 5110 | 5130 | 4220 | 4120 | 5960 | 9590 |
| 3400 | 4850 | 4580 | 4480 | 4320 | 4250 | 5850 | 5870 | 5870 | 5750 | 5790 | 4750 | 4630 | 6710 | 10800 |
| 3800 | 5390 | 5100 | 4990 | 4790 | 4730 | 6500 | 6520 | 6520 | 6390 | 6430 | 5260 | 5130 | 7460 | |
| 4200 | 5930 | 5610 | 5500 | 5250 | 5210 | 7140 | 7180 | 7180 | 7030 | 7010 | 5770 | 5640 | 8210 | |
| 4600 | 6470 | 6130 | 5950 | 5720 | 5690 | 7780 | 7840 | 7840 | 7660 | 7590 | 6280 | 6140 | 8960 | |
| 5000 | 7010 | 6640 | 6400 | 6190 | 6170 | 8420 | 8490 | 8480 | 8300 | 8160 | 6790 | 6650 | 9710 | |
| 5400 | 7540 | 7160 | 6840 | 6650 | 6630 | 9060 | 9090 | 9060 | 8890 | 8730 | 7300 | 7150 | 10440 | |
| 5800 | 8080 | 7630 | 7280 | 7120 | 7100 | 9710 | 9690 | 9630 | 9390 | 9310 | 7810 | 7660 | | |
| 6200 | 8620 | 8060 | 7720 | 7580 | 7570 | 10350 | 10290 | 10200 | 9890 | 9880 | 8320 | 8160 | | |
| 6600 | 9000 | 8490 | 8160 | 8050 | 8030 | | | | 10390 | 10450 | 8830 | 8640 | | |
| 7000 | 9350 | 8920 | 8610 | 8510 | 8500 | | | | | | 9340 | 9050 | | |
| 7400 | 9690 | 9350 | 9050 | 8980 | 8970 | | | | | | 9850 | 9470 | | |
| 7800 | 10040 | 9780 | 9490 | 9440 | 9430 | | | | | | 10360 | 9880 | | |
| 8200 | | 10210 | 9930 | 9910 | 9900 | | | | | | | 10290 | | |
| 8600 | | | 10380 | 10370 | 10370 | | | | | | | | | |
| 9000 | | | | | | | | | | | | | | |
| 9400 | | | | | | | | | | | | | | |
| 9800 | | | | | | | | | | | | | | |
| 10000 | | | | | | | | | | | | | | |

Table 11. Accelerate-Stop Distance – Flaps 30° (Standard Units)

ACCELERATE-STOP DISTANCE - METERS

FLAPS 30°

| ADVERSE RUNWAY ACCELERATE-STOP PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|--|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE | |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - | |
| 400 | 620 | 580 | 550 | 560 | 530 | 760 | 740 | 740 | 740 | 710 | 590 | 610 | 850 | 1360 | |
| 500 | 750 | 700 | 680 | 680 | 650 | 920 | 900 | 900 | 900 | 880 | 730 | 730 | 1040 | 1670 | |
| 600 | 890 | 830 | 810 | 800 | 770 | 1080 | 1070 | 1070 | 1060 | 1040 | 860 | 860 | 1230 | 1970 | |
| 700 | 1020 | 960 | 930 | 920 | 890 | 1240 | 1230 | 1230 | 1220 | 1210 | 1000 | 980 | 1410 | 2270 | |
| 800 | 1160 | 1090 | 1060 | 1040 | 1010 | 1400 | 1400 | 1400 | 1380 | 1370 | 1130 | 1110 | 1600 | 2580 | |
| 900 | 1290 | 1220 | 1190 | 1160 | 1130 | 1560 | 1560 | 1560 | 1530 | 1540 | 1270 | 1240 | 1790 | 2880 | |
| 1000 | 1430 | 1350 | 1320 | 1270 | 1250 | 1720 | 1730 | 1730 | 1690 | 1700 | 1400 | 1360 | 1980 | 3180 | |
| 1100 | 1560 | 1480 | 1440 | 1390 | 1370 | 1890 | 1890 | 1890 | 1850 | 1870 | 1530 | 1490 | 2160 | | |
| 1200 | 1700 | 1610 | 1570 | 1510 | 1490 | 2050 | 2060 | 2060 | 2010 | 2020 | 1660 | 1620 | 2350 | | |
| 1300 | 1830 | 1730 | 1700 | 1620 | 1610 | 2210 | 2220 | 2220 | 2170 | 2160 | 1780 | 1740 | 2540 | | |
| 1400 | 1970 | 1860 | 1810 | 1740 | 1730 | 2370 | 2390 | 2390 | 2330 | 2310 | 1910 | 1870 | 2730 | | |
| 1500 | 2100 | 1990 | 1920 | 1860 | 1850 | 2530 | 2550 | 2550 | 2490 | 2450 | 2040 | 1990 | 2910 | | |
| 1600 | 2240 | 2120 | 2030 | 1970 | 1970 | 2690 | 2700 | 2690 | 2650 | 2590 | 2170 | 2120 | 3100 | | |
| 1700 | 2370 | 2250 | 2140 | 2090 | 2080 | 2850 | 2850 | 2840 | 2780 | 2740 | 2290 | 2250 | | | |
| 1800 | 2510 | 2360 | 2250 | 2200 | 2200 | 3010 | 3000 | 2980 | 2900 | 2880 | 2420 | 2370 | | | |
| 1900 | 2640 | 2470 | 2360 | 2320 | 2320 | | | 3120 | 3030 | 3020 | 2550 | 2500 | | | |
| 2000 | 2730 | 2570 | 2470 | 2440 | 2430 | | | | | | 2680 | 2620 | | | |
| 2100 | 2820 | 2680 | 2580 | 2550 | 2550 | | | | | | 2800 | 2720 | | | |
| 2200 | 2900 | 2790 | 2700 | 2670 | 2670 | | | | | | 2930 | 2830 | | | |
| 2300 | 2990 | 2900 | 2810 | 2790 | 2780 | | | | | | 3060 | 2930 | | | |
| 2400 | 3080 | 3000 | 2920 | 2900 | 2900 | | | | | | | 3030 | | | |
| 2500 | | | 3030 | 3020 | 3020 | | | | | | | | | | |
| 2600 | | | | | | | | | | | | | | | |
| 2700 | | | | | | | | | | | | | | | |
| 2800 | | | | | | | | | | | | | | | |
| 2900 | | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | | | | | | | |

Table 12. Accelerate-Stop Distance – Flaps 30° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

LANDING GROUND ROLL DISTANCE - FEET

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|---|-----------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|------------------------------|----------|-------------------------|------------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 800 | 1460 | 1430 | 1240 | 1340 | 1250 | 1280 | 1350 | 1280 | 1250 | 1200 | 1370 | 1350 | 1820 | 6070 |
| 1000 | 1780 | 1750 | 1540 | 1630 | 1550 | 1600 | 1680 | 1600 | 1560 | 1500 | 1710 | 1660 | 2240 | |
| 1200 | 2100 | 2070 | 1850 | 1920 | 1840 | 1920 | 2020 | 1920 | 1880 | 1800 | 2050 | 1970 | 2650 | |
| 1400 | 2420 | 2390 | 2160 | 2220 | 2140 | 2240 | 2360 | 2240 | 2190 | 2100 | 2390 | 2280 | 3060 | |
| 1600 | 2750 | 2720 | 2470 | 2510 | 2440 | 2560 | 2690 | 2560 | 2500 | 2390 | 2740 | 2590 | 3480 | |
| 1800 | 3070 | 3040 | 2770 | 2800 | 2730 | 2880 | 3030 | 2880 | 2810 | 2690 | 3080 | 2910 | | |
| 2000 | 3390 | 3360 | 3080 | 3090 | 3030 | 3200 | 3360 | 3200 | 3120 | 2990 | 3420 | 3220 | | |
| 2200 | | | 3390 | 3360 | 3320 | | | | 3440 | 3290 | | | | |
| 2400 | | | | | | | | | | | | | | |
| 2600 | | | | | | | | | | | | | | |
| 2800 | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | | | | | | |
| 3200 | | | | | | | | | | | | | | |

Table 13. Landing Ground Roll – Flaps 40° (Standard Units)

LANDING GROUND ROLL DISTANCE - METERS

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|-----|------|-----|---------------|-----|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 250 | 450 | 440 | 380 | 420 | 390 | 400 | 420 | 400 | 390 | 370 | 430 | 420 | 570 | 1880 |
| 300 | 530 | 520 | 460 | 490 | 460 | 480 | 500 | 480 | 470 | 450 | 510 | 500 | 670 | |
| 350 | 610 | 600 | 540 | 560 | 540 | 560 | 590 | 560 | 550 | 520 | 600 | 580 | 770 | |
| 400 | 690 | 690 | 620 | 630 | 610 | 640 | 670 | 640 | 620 | 600 | 680 | 650 | 880 | |
| 450 | 780 | 770 | 690 | 710 | 690 | 720 | 760 | 720 | 700 | 670 | 770 | 730 | 980 | |
| 500 | 860 | 850 | 770 | 780 | 760 | 800 | 840 | 800 | 780 | 750 | 850 | 810 | | |
| 550 | 940 | 930 | 850 | 850 | 830 | 880 | 920 | 880 | 860 | 820 | 940 | 890 | | |
| 600 | 1020 | 1010 | 920 | 930 | 910 | 960 | 1010 | 960 | 940 | 900 | 1020 | 960 | | |
| 650 | | | 1000 | 1000 | 980 | 1040 | | | 1010 | 970 | | | | |
| 700 | | | | | 1050 | | | | | | | | | |
| 750 | | | | | | | | | | | | | | |
| 800 | | | | | | | | | | | | | | |
| 850 | | | | | | | | | | | | | | |
| 900 | | | | | | | | | | | | | | |
| 950 | | | | | | | | | | | | | | |

Table 14. Landing Ground Roll – Flaps 40° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

LANDING TOTAL DISTANCE - FEET

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE (50 FEET SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|----------------------|------|-----------------|------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1600 | 2370 | 2310 | 2140 | 2230 | 2160 | 2280 | 2280 | 2250 | 2200 | 2110 | 2320 | 2200 | 2880 | 7200 |
| 1800 | 2690 | 2620 | 2440 | 2510 | 2450 | 2570 | 2590 | 2550 | 2490 | 2370 | 2630 | 2490 | 3260 | |
| 2000 | 3000 | 2930 | 2740 | 2780 | 2740 | 2870 | 2910 | 2840 | 2780 | 2630 | 2940 | 2780 | 3640 | |
| 2200 | 3320 | 3240 | 3040 | 3060 | 3030 | 3170 | 3230 | 3130 | 3070 | 2900 | 3250 | 3080 | 4020 | |
| 2400 | 3640 | 3550 | 3340 | 3340 | 3320 | 3460 | 3550 | 3430 | 3350 | 3180 | 3560 | 3370 | 4400 | |
| 2600 | 3950 | 3860 | 3640 | 3620 | 3610 | 3760 | 3860 | 3720 | 3640 | 3480 | 3870 | 3660 | | |
| 2800 | 4270 | 4170 | 3940 | 3900 | 3900 | 4060 | 4180 | 4010 | 3930 | 3790 | 4180 | 3950 | | |
| 3000 | | 4480 | 4240 | 4170 | 4190 | 4350 | 4500 | 4310 | 4220 | 4090 | 4490 | 4240 | | |
| 3200 | | | | 4440 | 4480 | | | | | 4390 | | | | |
| 3400 | | | | | | | | | | | | | | |
| 3600 | | | | | | | | | | | | | | |
| 3800 | | | | | | | | | | | | | | |
| 4000 | | | | | | | | | | | | | | |
| 4200 | | | | | | | | | | | | | | |

Table 15. Landing Total Distance – Flaps 40° (Standard Units)

LANDING TOTAL DISTANCE - METERS

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE (15 METER SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 400 | 580 | 570 | 520 | 560 | 530 | 560 | 550 | 560 | 540 | 530 | 570 | 540 | 710 | 1850 |
| 450 | 660 | 650 | 600 | 630 | 600 | 640 | 630 | 630 | 620 | 590 | 650 | 620 | 810 | |
| 500 | 740 | 720 | 670 | 690 | 670 | 710 | 710 | 700 | 690 | 660 | 730 | 690 | 900 | |
| 550 | 820 | 800 | 750 | 760 | 750 | 790 | 790 | 780 | 760 | 720 | 800 | 760 | 1000 | |
| 600 | 900 | 880 | 820 | 830 | 820 | 860 | 870 | 850 | 830 | 790 | 880 | 830 | 1090 | |
| 650 | 980 | 950 | 900 | 900 | 890 | 930 | 950 | 920 | 900 | 850 | 960 | 910 | 1190 | |
| 700 | 1060 | 1030 | 970 | 970 | 960 | 1010 | 1030 | 1000 | 980 | 920 | 1040 | 980 | 1280 | |
| 750 | 1140 | 1110 | 1050 | 1040 | 1040 | 1080 | 1110 | 1070 | 1050 | 1000 | 1110 | 1050 | 1380 | |
| 800 | 1220 | 1190 | 1120 | 1110 | 1110 | 1160 | 1190 | 1140 | 1120 | 1070 | 1190 | 1120 | 1470 | |
| 850 | 1290 | 1260 | 1200 | 1180 | 1180 | 1230 | 1270 | 1220 | 1190 | 1150 | 1270 | 1200 | | |
| 900 | 1370 | 1340 | 1270 | 1250 | 1250 | 1300 | 1350 | 1290 | 1260 | 1220 | 1350 | 1270 | | |
| 950 | 1450 | 1420 | 1350 | 1320 | 1330 | 1380 | 1430 | 1360 | 1330 | 1300 | 1420 | 1350 | | |
| 1000 | | | 1420 | 1380 | 1400 | 1450 | | 1440 | 1410 | 1370 | | 1420 | | |
| 1050 | | | | 1440 | 1470 | | | | | 1450 | | | | |
| 1100 | | | | | | | | | | | | | | |
| 1150 | | | | | | | | | | | | | | |
| 1200 | | | | | | | | | | | | | | |
| 1250 | | | | | | | | | | | | | | |
| 1300 | | | | | | | | | | | | | | |
| 1350 | | | | | | | | | | | | | | |
| 1400 | | | | | | | | | | | | | | |

Table 16. Landing Total Distance – Flaps 40° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

LANDING GROUND ROLL DISTANCE - FEET

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE WITH REVERSE THRUST (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|-----------------------|------------|------------|------------|------------|-----------------------|------------|------------|------------|------------|------------------------------|----------|-------------------------|------------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 400 | 740 | 690 | 640 | 680 | 610 | 700 | 640 | 680 | 680 | 660 | 730 | 680 | 1260 | 3050 |
| 500 | 890 | 830 | 770 | 810 | 740 | 830 | 790 | 810 | 810 | 780 | 870 | 810 | 1510 | |
| 600 | 1030 | 970 | 910 | 930 | 860 | 970 | 940 | 940 | 930 | 900 | 1010 | 940 | 1760 | |
| 700 | 1180 | 1110 | 1040 | 1060 | 990 | 1110 | 1090 | 1070 | 1060 | 1030 | 1150 | 1070 | 2000 | |
| 800 | 1320 | 1250 | 1180 | 1190 | 1120 | 1240 | 1250 | 1200 | 1190 | 1150 | 1290 | 1190 | 2250 | |
| 900 | 1460 | 1380 | 1310 | 1320 | 1240 | 1380 | 1400 | 1330 | 1320 | 1270 | 1430 | 1330 | 2500 | |
| 1000 | 1610 | 1520 | 1440 | 1440 | 1370 | 1520 | 1550 | 1450 | 1440 | 1390 | 1570 | 1470 | | |
| 1100 | 1750 | 1660 | 1580 | 1570 | 1500 | 1650 | 1700 | 1580 | 1570 | 1520 | 1720 | 1610 | | |
| 1200 | 1890 | 1800 | 1710 | 1700 | 1620 | 1790 | 1850 | 1720 | 1700 | 1640 | 1870 | 1750 | | |
| 1300 | 2040 | 1940 | 1850 | 1830 | 1750 | 1920 | 2000 | 1860 | 1830 | 1760 | 2020 | 1890 | | |
| 1400 | 2180 | 2080 | 1980 | 1930 | 1880 | 2060 | 2150 | 2000 | 1960 | 1900 | 2170 | 2020 | | |
| 1500 | 2330 | 2220 | 2120 | 2030 | 2000 | 2210 | 2300 | 2150 | 2100 | 2040 | 2310 | 2160 | | |
| 1600 | 2470 | 2360 | 2250 | 2130 | 2130 | 2350 | 2450 | 2290 | 2240 | 2180 | 2460 | 2300 | | |
| 1700 | | 2490 | 2380 | 2230 | 2260 | 2490 | | 2430 | 2380 | 2320 | | 2440 | | |
| 1800 | | | 2520 | 2330 | 2380 | | | | 2520 | 2460 | | | | |
| 1900 | | | | 2430 | 2510 | | | | | | | | | |
| 2000 | | | | | | | | | | | | | | |
| 2100 | | | | | | | | | | | | | | |
| 2200 | | | | | | | | | | | | | | |
| 2300 | | | | | | | | | | | | | | |
| 2400 | | | | | | | | | | | | | | |

Table 17. Landing Ground Roll with Reverse Thrust – Flaps 40° (Standard Units)

LANDING GROUND ROLL DISTANCE - METERS

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE WITH REVERSE THRUST (WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|-----|-----|-----|-----|------------|-----|-----|-----|-----|---------------|-----|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 150 | 270 | 250 | 230 | 240 | 220 | 250 | 240 | 240 | 240 | 230 | 260 | 240 | 450 | 1100 |
| 175 | 300 | 280 | 260 | 270 | 250 | 280 | 270 | 280 | 270 | 260 | 300 | 270 | 510 | |
| 200 | 340 | 320 | 300 | 310 | 280 | 320 | 310 | 310 | 310 | 300 | 330 | 310 | 580 | |
| 225 | 370 | 350 | 330 | 340 | 320 | 350 | 350 | 340 | 340 | 330 | 370 | 340 | 640 | |
| 250 | 410 | 390 | 370 | 370 | 350 | 390 | 390 | 370 | 370 | 360 | 400 | 370 | 700 | |
| 275 | 450 | 420 | 400 | 400 | 380 | 420 | 430 | 400 | 400 | 390 | 440 | 400 | | |
| 300 | 480 | 460 | 430 | 430 | 410 | 450 | 460 | 440 | 430 | 420 | 470 | 440 | | |
| 325 | 520 | 490 | 470 | 460 | 440 | 490 | 500 | 470 | 460 | 450 | 510 | 470 | | |
| 350 | 550 | 530 | 500 | 500 | 470 | 520 | 540 | 500 | 500 | 480 | 540 | 510 | | |
| 375 | 590 | 560 | 530 | 530 | 510 | 560 | 580 | 540 | 530 | 510 | 580 | 540 | | |
| 400 | 630 | 600 | 570 | 560 | 540 | 590 | 610 | 570 | 560 | 540 | 620 | 580 | | |
| 425 | 660 | 630 | 600 | 590 | 570 | 630 | 650 | 610 | 600 | 580 | 660 | 610 | | |
| 450 | 700 | 660 | 630 | 610 | 600 | 660 | 690 | 640 | 630 | 610 | 690 | 650 | | |
| 475 | | 700 | 670 | 640 | 630 | 700 | 730 | 680 | 670 | 650 | 730 | 680 | | |
| 500 | | | 700 | 660 | 660 | | | 710 | 700 | 680 | | 720 | | |
| 525 | | | | 690 | 700 | | | | | | | | | |
| 550 | | | | 710 | | | | | | | | | | |
| 575 | | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | |
| 625 | | | | | | | | | | | | | | |
| 650 | | | | | | | | | | | | | | |
| 675 | | | | | | | | | | | | | | |
| 700 | | | | | | | | | | | | | | |

Table 18. Landing Ground Roll with Reverse Thrust – Flaps 40° (Metric Units)

**CONTAMINATED RUNWAY DATA
PERFORMANCE CHARTS**

LANDING TOTAL DISTANCE - FEET

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE WITH REVERSE THRUST (50 FEET SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|---|----------------|------|------|------|------|----------------|------|------|------|------|----------------------|------|-----------------|------|
| DRY RUNWAY (FEET) | WATER (INCHES) | | | | | SLUSH (INCHES) | | | | | DRY SNOW (INCHES) | | COMPACT SNOW | ICE |
| | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 0.125 | 0.2 | 0.3 | 0.4 | 0.5 | 1 | 2 | - | - |
| 1400 | 1890 | 1860 | 1810 | 1810 | 1760 | 1800 | 1840 | 1760 | 1740 | 1750 | 1820 | 1760 | 2700 | 6130 |
| 1500 | 2030 | 1990 | 1940 | 1930 | 1890 | 1930 | 1970 | 1890 | 1860 | 1860 | 1950 | 1890 | 2920 | |
| 1600 | 2160 | 2120 | 2060 | 2060 | 2010 | 2060 | 2110 | 2020 | 1980 | 1970 | 2080 | 2030 | 3130 | |
| 1700 | 2300 | 2250 | 2190 | 2190 | 2140 | 2190 | 2240 | 2140 | 2090 | 2090 | 2210 | 2160 | 3350 | |
| 1800 | 2430 | 2380 | 2320 | 2310 | 2260 | 2320 | 2380 | 2270 | 2210 | 2200 | 2340 | 2290 | 3560 | |
| 1900 | 2570 | 2520 | 2450 | 2440 | 2390 | 2450 | 2510 | 2390 | 2330 | 2310 | 2470 | 2430 | | |
| 2000 | 2700 | 2650 | 2580 | 2570 | 2510 | 2580 | 2650 | 2520 | 2450 | 2430 | 2610 | 2560 | | |
| 2100 | 2840 | 2780 | 2710 | 2690 | 2640 | 2700 | 2790 | 2640 | 2560 | 2540 | 2750 | 2690 | | |
| 2200 | 2970 | 2910 | 2840 | 2820 | 2760 | 2830 | 2920 | 2770 | 2680 | 2650 | 2890 | 2820 | | |
| 2300 | 3100 | 3040 | 2960 | 2940 | 2890 | 2960 | 3060 | 2900 | 2800 | 2770 | 3040 | 2960 | | |
| 2400 | 3240 | 3180 | 3090 | 3060 | 3020 | 3100 | 3190 | 3030 | 2940 | 2900 | 3180 | 3090 | | |
| 2500 | 3370 | 3310 | 3220 | 3160 | 3140 | 3230 | 3330 | 3170 | 3070 | 3040 | 3320 | 3220 | | |
| 2600 | 3510 | 3440 | 3350 | 3250 | 3270 | 3370 | 3460 | 3310 | 3210 | 3170 | 3460 | 3350 | | |
| 2700 | | | 3480 | 3350 | 3390 | 3500 | | 3440 | 3350 | 3310 | | 3490 | | |
| 2800 | | | | 3440 | 3520 | | | | 3480 | 3440 | | | | |
| 2900 | | | | | | | | | | | | | | |
| 3000 | | | | | | | | | | | | | | |
| 3400 | | | | | | | | | | | | | | |

Table 19. Landing Total Distance with Reverse Thrust – Flaps 40° (Standard Units)

LANDING TOTAL DISTANCE - METERS

FLAPS 40°

| ADVERSE RUNWAY LANDING PERFORMANCE WITH REVERSE THRUST (15 METER SCREEN HEIGHT, WINDS: -10 KNOTS to +30 KNOTS, SLOPE: -4% to +4%) | | | | | | | | | | | | | | |
|--|------------|------|------|------|------|------------|------|------|------|------|---------------|------|-----------------|------|
| DRY RUNWAY (METERS) | WATER (mm) | | | | | SLUSH (mm) | | | | | DRY SNOW (mm) | | COMPACT SNOW | ICE |
| | 3 | 5 | 8 | 10 | 13 | 3 | 5 | 8 | 10 | 13 | 25 | 51 | - | - |
| 450 | 610 | 590 | 580 | 580 | 560 | 580 | 590 | 570 | 560 | 560 | 590 | 570 | 870 | 2110 |
| 475 | 640 | 630 | 610 | 610 | 600 | 610 | 620 | 600 | 590 | 590 | 620 | 600 | 930 | |
| 500 | 670 | 660 | 640 | 640 | 630 | 640 | 660 | 630 | 620 | 610 | 650 | 630 | 980 | |
| 525 | 710 | 690 | 680 | 670 | 660 | 680 | 690 | 660 | 650 | 640 | 680 | 670 | 1030 | |
| 550 | 740 | 730 | 710 | 710 | 690 | 710 | 730 | 690 | 670 | 670 | 720 | 700 | 1090 | |
| 575 | 780 | 760 | 740 | 740 | 720 | 740 | 760 | 720 | 700 | 700 | 750 | 730 | | |
| 600 | 810 | 790 | 770 | 770 | 750 | 770 | 790 | 750 | 730 | 730 | 780 | 770 | | |
| 625 | 840 | 830 | 800 | 800 | 780 | 800 | 830 | 790 | 760 | 760 | 820 | 800 | | |
| 650 | 880 | 860 | 840 | 830 | 820 | 840 | 860 | 820 | 790 | 780 | 850 | 830 | | |
| 675 | 910 | 890 | 870 | 860 | 850 | 870 | 900 | 850 | 820 | 810 | 890 | 860 | | |
| 700 | 940 | 930 | 900 | 890 | 880 | 900 | 930 | 880 | 850 | 840 | 920 | 900 | | |
| 725 | 980 | 960 | 930 | 920 | 910 | 930 | 960 | 910 | 880 | 870 | 960 | 930 | | |
| 750 | 1010 | 990 | 970 | 950 | 940 | 970 | 1000 | 950 | 920 | 910 | 990 | 960 | | |
| 775 | 1040 | 1020 | 1000 | 970 | 970 | 1000 | 1030 | 980 | 950 | 940 | 1030 | 1000 | | |
| 800 | 1080 | 1060 | 1030 | 1000 | 1000 | 1030 | 1060 | 1020 | 990 | 980 | 1070 | 1030 | | |
| 825 | | | 1060 | 1020 | 1040 | 1070 | | 1050 | 1020 | 1010 | | 1060 | | |
| 850 | | | | 1040 | 1070 | | | | 1060 | 1040 | | | | |
| 875 | | | | 1070 | | | | | | 1080 | | | | |
| 900 | | | | | | | | | | | | | | |
| 925 | | | | | | | | | | | | | | |
| 1050 | | | | | | | | | | | | | | |

Table 20. Landing Total Distance with Reverse Thrust – Flaps 40° (Metric Units)

INTENTIONALLY BLANK