

## Administrative Procedure 710 – Appendix A

---

### WIND CHILL CALCULATION CHART

Where T air = Air temperature in °C and V10 = Observed wind speed at 10m elevation, in km/h.

| T air | -20 | -25 | -30 | -35 | -40 |
|-------|-----|-----|-----|-----|-----|
| V 10  |     |     |     |     |     |
| 5     | -24 | -30 | -36 | -41 | -47 |
| 10    | -27 | -33 | -39 | -45 | -51 |
| 15    | -29 | -35 | -41 | -48 | -54 |
| 20    | -31 | -37 | -43 | -49 | -56 |
| 25    | -32 | -38 | -45 | -51 | -57 |
| 30    | -33 | -39 | -46 | -52 | -59 |
| 35    | -33 | -40 | -47 | -53 | -60 |
| 40    | -34 | -41 | -48 | -54 | -61 |
| 45    | -35 | -42 | -48 | -55 | -62 |
| 50    | -35 | -42 | -49 | -56 | -63 |
| 55    | -36 | -43 | -50 | -57 | -63 |
| 60    | -37 | -43 | -50 | -57 | -64 |
| 65    | -37 | -44 | -51 | -58 | -65 |
| 70    | -37 | -44 | -51 | -59 | -66 |
| 75    | -38 | -45 | -52 | -59 | -66 |
| 80    | -38 | -45 | -52 | -60 | -67 |

#### Approximate Thresholds:

Risk of frostbite in prolonged exposure at -27

Frostbite possible in 10 minutes at -35

Frostbite possible in less than 2 minutes at

#### Wind Chill below:

-27 Warm skin, suddenly exposed.  
Shorter time if skin is cool at the start.

-35 Warm skin, suddenly exposed.  
Shorter time if skin is cool at the start.

-60 Warm skin, suddenly exposed. Shorter time if skin is cool at the start.