



## *Survivability*

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*Ubique quo fas et gloria ducunt*  
- *Where ever duty and honour leads us*



## Agenda

- Importance of survivability
- Difficulties in cold weather
- Methods and techniques
  
- Time: 30 minutes



## *Artic climate and cold weather often stresses the need to dig in*

- Artic climate often features less vegetation and therefore less concealment, if you need to stay in the fight you need to dig in.
- Frozen ground does not absorb as much of the shockwave in for example artillery grenades as it does in normal ground.
- Snow does absorb the shockwave if there is snow, and snow itself can be used for protection.



## *Difficulties in survivability in cold climate*

- To dig in the frozen ground can be a timeconsuming and tiring job.
- It harsh on machines and equiptment making maintenace and skilled personell a key factor
- text



## How to get dug in

- Penetrate the layer of frozen ground with machines, preferably ripper teeths.
- Penetrate the layer of frozen ground with explosives, regarding both obstacles and protective works.
- Utilize the snow for camouflage and protection.
- Time consuming (Key planning factor)
- When the ground goes from being to frozen to thawed, the soil will lose its structure and you must prepar for heavy maintenace on your positions.

| Serial | Description                            | Minimum thickness for protection (m) |
|--------|--|--------------------------------------|
| (a)    | (b)                                    | (c)                                  |
| 1      | Newly fallen snow (no wind)            | 4.0                                  |
| 2      | Wind-driven snow                       | 3.0                                  |
| 3      | Packed snow                            | 2.0                                  |
| 4      | Frozen snow/water mixture (snow-crete) | 1.2                                  |
| 5      | Ice concrete                           | 0.4                                  |



Orientation ends  
Questions?  
(10 minutes maximum)



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