

***FINAVIA***

*for smooth travelling*

# COMPOSITE, ARFF REAL RISK

- Two or more materials combination, fiber will be smaller and smaller
- Mixture can be unknown, accident or fire cases identification difficult
- In case of fire toxic gases, sharp fibers and small particles
- We already know it is very common
  - Airbus A320 >20% materials are composite
  - Airbus A350 > 50% materials are composite

# Accidents in Finland, Composite



Comp Air 8 –  
Parasuit flights



DA 42 Pilot  
training – no  
landing gears

## Immediate Danger Area

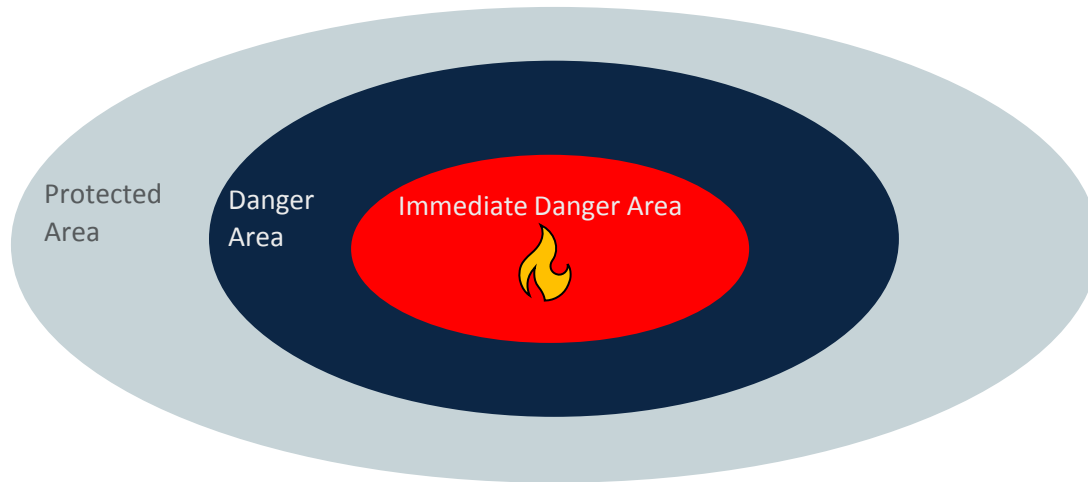
- FF use normal fire suits and BA
- Others need protective cloths and half mask with FFP3 filter (or ventilated mask), leather gloves, eyeglasses

## Danger Area

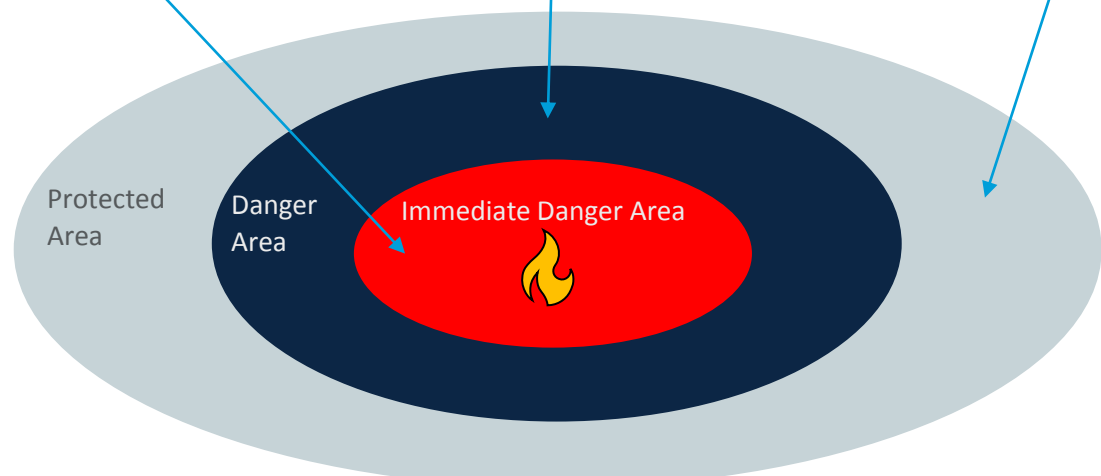
- protective cloths and half mask with FFP3 filter , leather gloves, eyeglasses

## Protected Area

- No need for protection (paper mask)







# Learnings

- Type of plane composite or not – nowadays almost every planes is partly composite
- FF protecting by breathing apparatus and normal fire suit
- Paramedic, Police, investigators etc. minimum is protective cloths and half mask with FFP3 filter
- Paper filter is possible only very short visits
- More attention to Zones in the site
- How to handle contaminated clothes – is it possible to wash and use any more
- How about persons, vehicles and used equipments?



Extra material:

<https://www.atsb.gov.au/media/27758/ar2007021.pdf>

<http://www.tc.faa.gov/its/worldpac/techrpt/ar98-34.pdf>

<https://apps.dtic.mil/dtic/tr/fulltext/u2/a617988.pdf>



# Thank You!

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