

CORPO NAZIONALE SOCCORSO ALPINO E SPELEOLOGICO

Scuola Nazionale Tecnici Soccorso in Forra

Italian National Canyon Rescue School

CANYON'S DEEP WATERFALLS STRETCHER LOWERING TECHNIQUES

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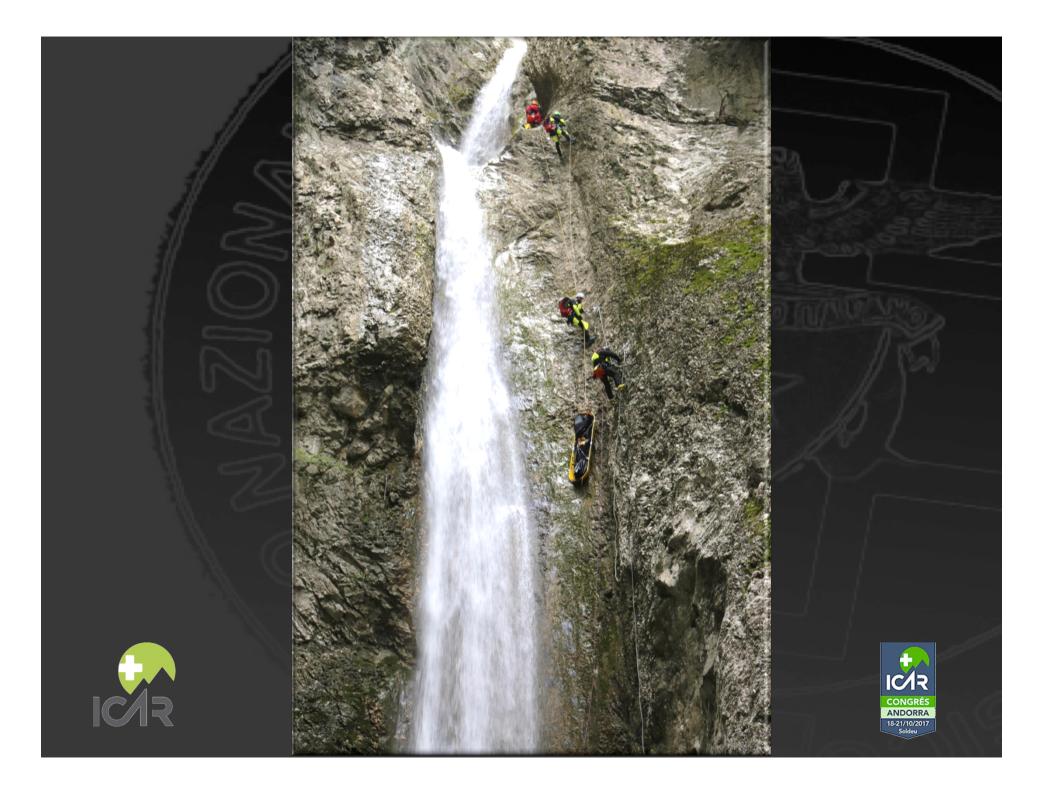
THREE DIFFERENT SYSTEMS TO RESCUE A STRETCHER ON A LONG CANYON'S WATERFALLS

A-TOP TO BOTTOM MULTIPLE ROPES JOINTED.

• **B-BELAY TO BELAY with 60m ROPE.**

C- JOINTED ROPES (> 120m)
 SKIPPING INTERMEDIATE BELAYS.





• A-TOP TO BOTTOM, MULTIPLE ROPES JOINTED

PRO:

• FAST

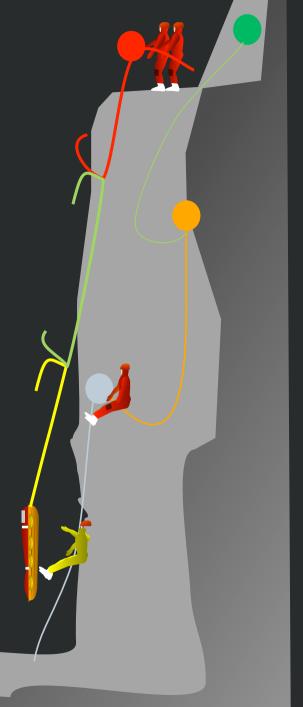
CONS:

• MANY ROPES NEEDED

WHERE TO:

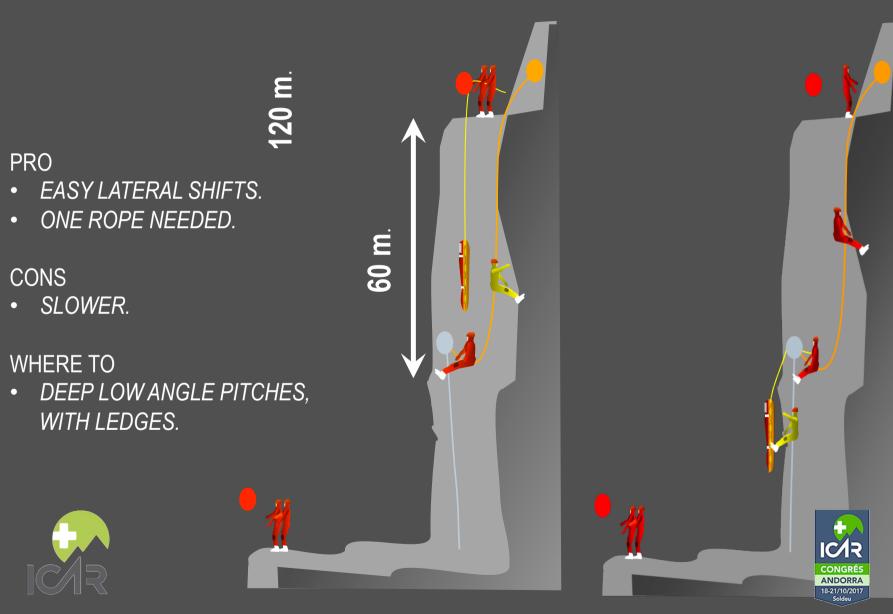
• LONG OVERHANGING PITCHES WITHOUT LEDGES.







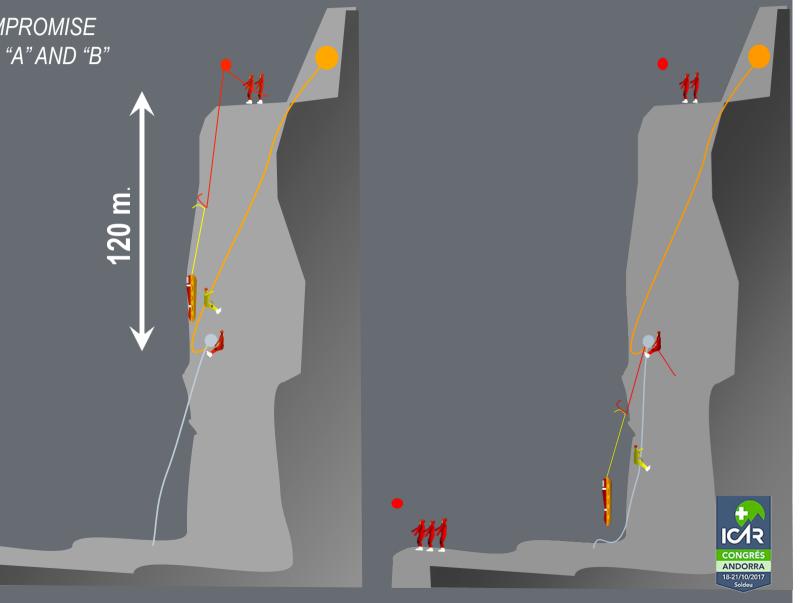
• **B-BELAY TO BELAY with 60m ROPE**



• C- JOINTED ROPES (> 120m) SKIPPING INTERMEDIATE BELAYS.

NOTE

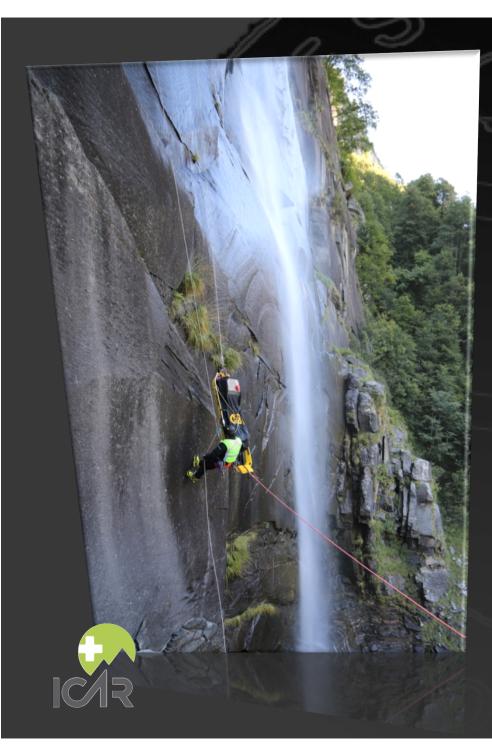
• BEST COMPROMISE BETWEEN "A" AND "B"



SAFETY BASICS:

- IF POSSIBLE, THE STRETCHER HAVE TO BE LOWERED FAR FROM THE WATERFALL.
- A LINE FOR SINGLE ROPE WALKING TECHNIQUE HAS TO BE EQUIPPED TOP TO BOTTOM.
- STRETCHER AND OPERATORS HAVE TO AVOID LOOSE ROCK AND POSSIBLE ROCK FALL TRAJECTORIES.
- RADIO CONNECTION HAS TO BE ALWAYS AVAIABLE.





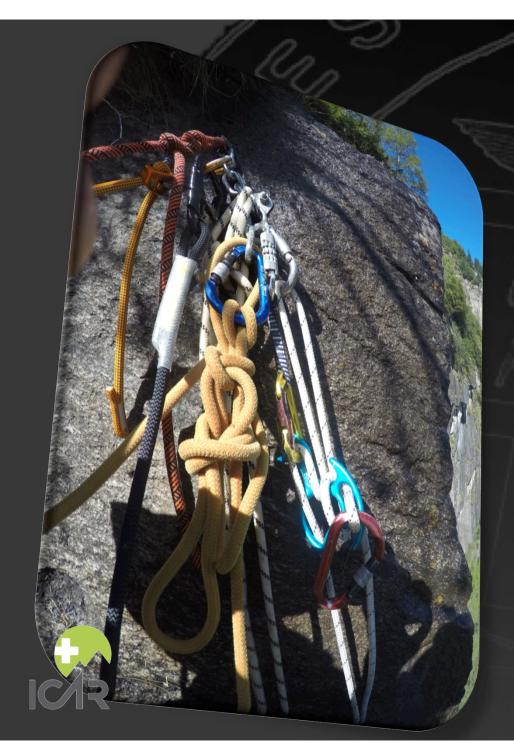
LOWERING TECHNIQUES

- 10mm SINGLE ROPE STATIC
 TYPE «A» EN 1891
- AN OPERATOR FOLLOWS THE STRETCHER, ABSEILING ON THE LINE.



• PREFERRED LOWERING DEVICE IS "OKA", EASY TO LOCK ROPE





IN PRESENCE OF SHARP ROCKS OR RISKS ROCK FALL, WE LOWER THE STRETCHER WITH TWO TENSIONED ROPES

- WE LOWER THE STRETCHER IN VERTICAL POSITION IF NEARBY OR INTO THE WATER FALL.
- WE LOWER THE STRETCHER IN VERTICAL POSITION AT HIGH RISKS OF ROCK FALL,
- THE RESCUE OPERATOR THAT FOLLOWS THE STRETCHER DURING THE OPERATON.





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THANK YOU



