Hand Shear Test

1. Excavate a clean vertical wall of snow at least 40 cm wide and 50 cm deep or down to old snow.

Analyse the snow profile \rightarrow

- Cut a vertical slot to the left of the front face and 35 cm or so up-slope.
- 3. Cut a second slot 30 cm to the right of the first slot, again 35 cm up-slope so you have isolated both sides.
- 4. Cut carefully across the back wall between the slots.
- Place your hands vertically down in the slot at the back of the block to above the wrists.
- 6. Pull towards you parallel with the snow surface.
- 7. Look for shear failure.
- 8. Could you predict the failure?

Scale:

- 1 fails while isolating block
- 2 fails when placing hands in slot
- 3 fails when applying finger pressure significant weakness
- 4 fails with a pull
- 5 does not fail



very major weakness

major weakness

weakness present

stable to depth of profile

Snow Profile Example

