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Handling intermediate belays

Intermediate belays are used to reduce the fall factor .

The distances between the individual intermediate belays must be low near the ground.

By properly setting the belaying a striking or whipping is prevented.

If the distance to the ground is large enough, the distances between two intermediate belays can be enlarged

The elongation of the rope and the risk of a pendulum fall has to be considered

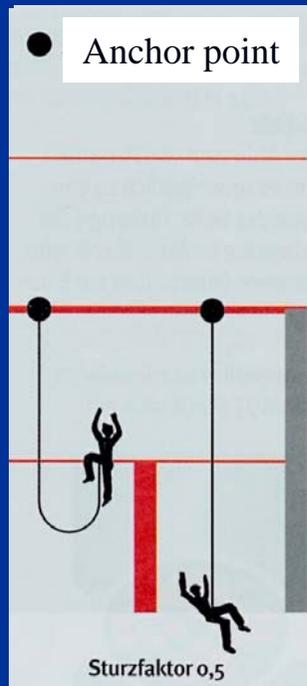


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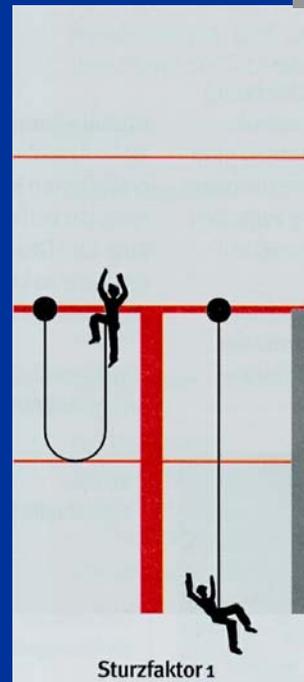


Handling intermediate belays

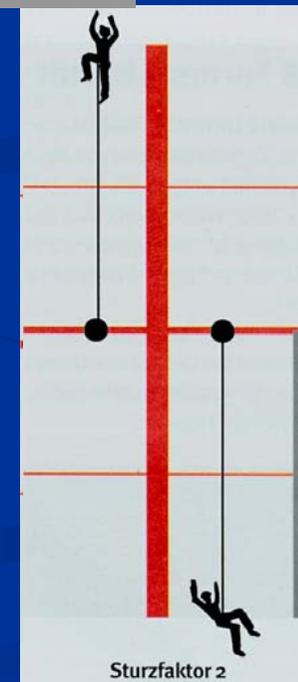
$$\text{Fall factor} = \frac{\text{Height of fall}}{\text{Free rope length}}$$



Fall factor 0,5



Fall factor 1



Fall factor 2

Handling intermediate belays



The intermediate belays must be fitted so that slipping is impossible.



Close to the ground the distances between intermediate belays must be short to avoid hitting the ground.

Handling intermediate belays



Short distances close to the ground.



Larger distances far from the ground

Wrong use of intermediate belays



Slip of intermediate belay possible



Margin too large – free movement possible

Wrong use of intermediate belays



Rope guided wrong



Keep the rope straight – reduce friction