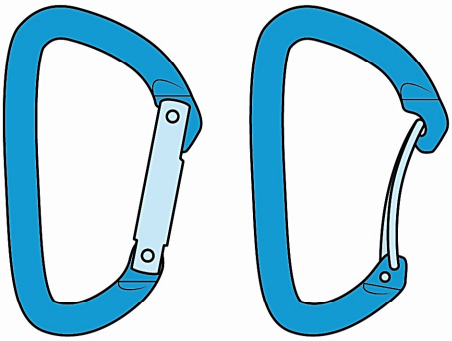
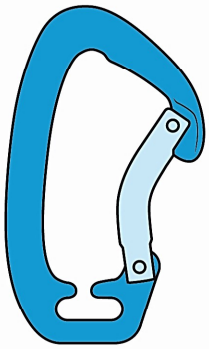
EN-12275 CONNECTORS UIAA-121

Note: This representation of EN 12275 and UIAA 121 does not contain the full details of the test methods and requirements in these standards; it gives only a simplified pictorial presentation.
For full details, EN 12275: 2013 and UIAA 121: 2018 should be consulted.

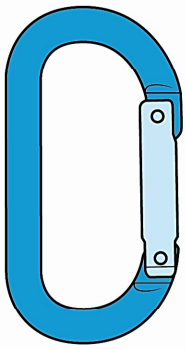
The general term "Connectors" is used to include all types of karabiners and also quicklinks ("Maillon rapide").



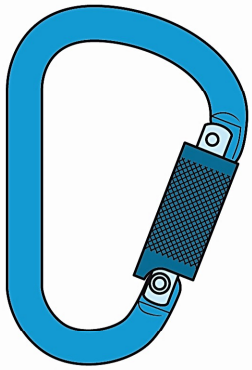
Type B (Basic)
Connector for normal use



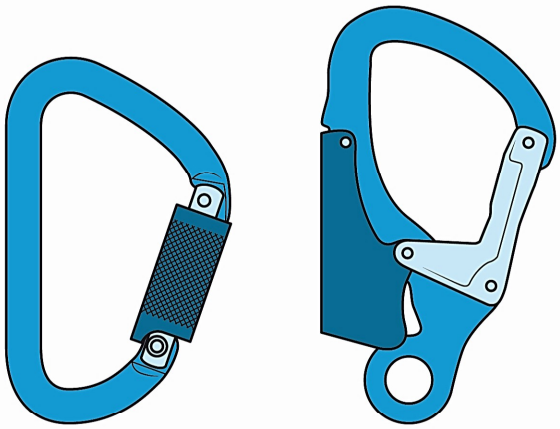
Type T (directional)
Connector for Quickdraws



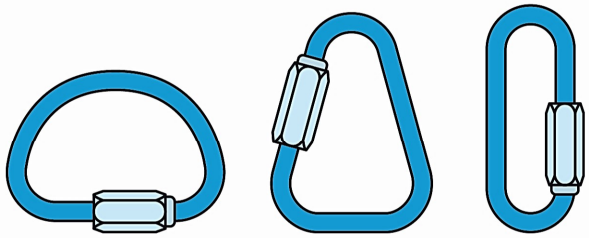
Type X (oval shape)
Connector for Aid climbing



Type H (HMS)
Connector for belaying

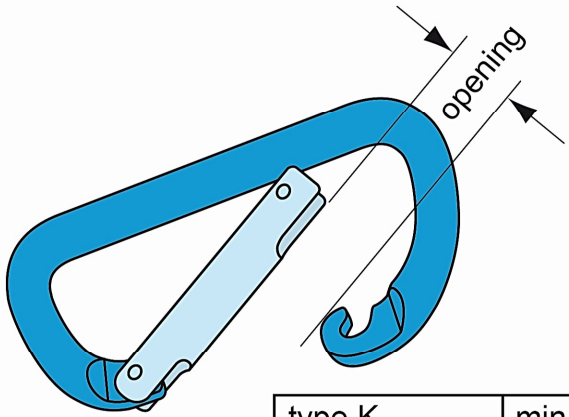


Type K (Klettersteig)
Connector for "Via ferrata", "Klettersteig"
Type K Connectors shall have an automatic locking device



Type Q (Quick link)
Connector for extra safety Quick link, "Maillon rapide"

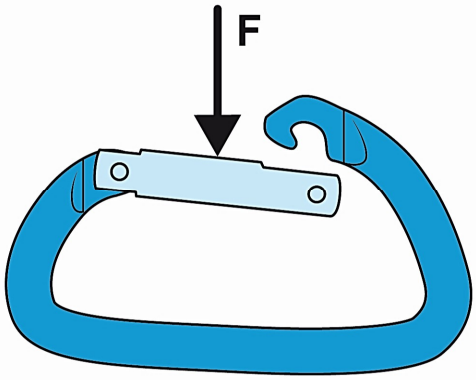
Gate Opening Width



type K	min. 21 mm
all other types	min. 15 mm

Gate Opening Force

(for all types)



If F ≤ 5 N, the gate must stay closed

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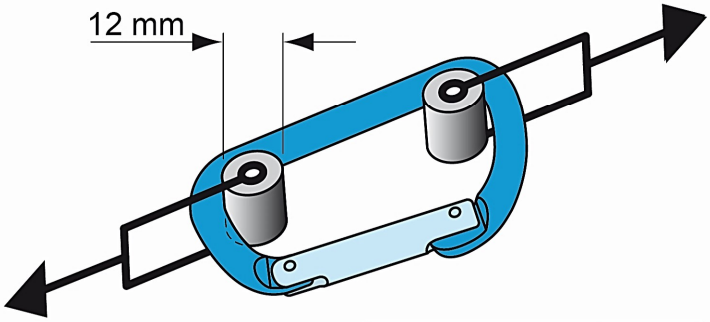
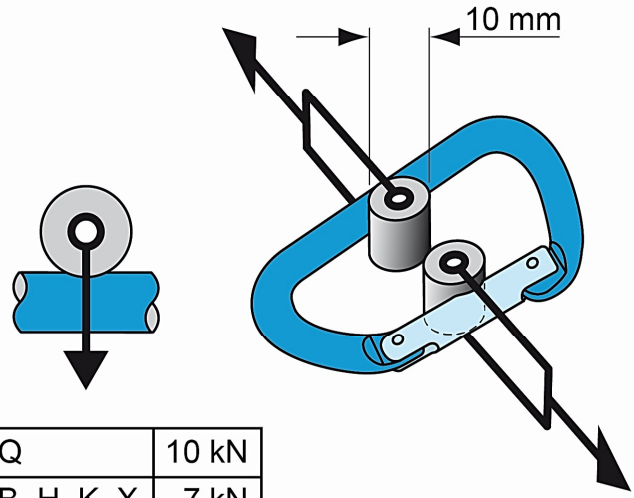
This representation does not provide full details. Read the Note at the head of page 1.

Strength in Main Direction



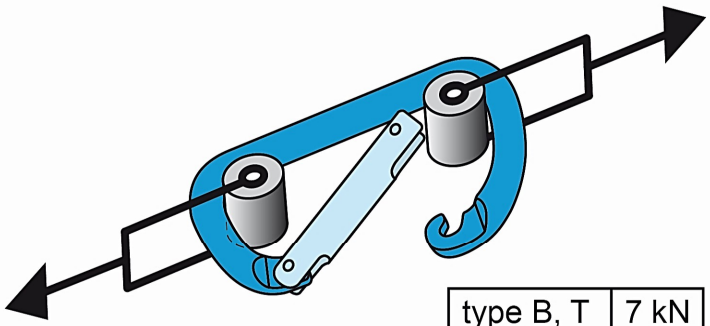
type Q	25 kN
type X	18 kN
all other types	20 kN

Strength in Transverse Direction



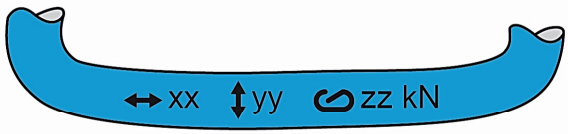
type Q	10 kN
type B, H, K, X	7 kN
type T	--

Gate Open Strength



type B, T	7 kN
type H	6 kN
type X	5 kN
type Q	--

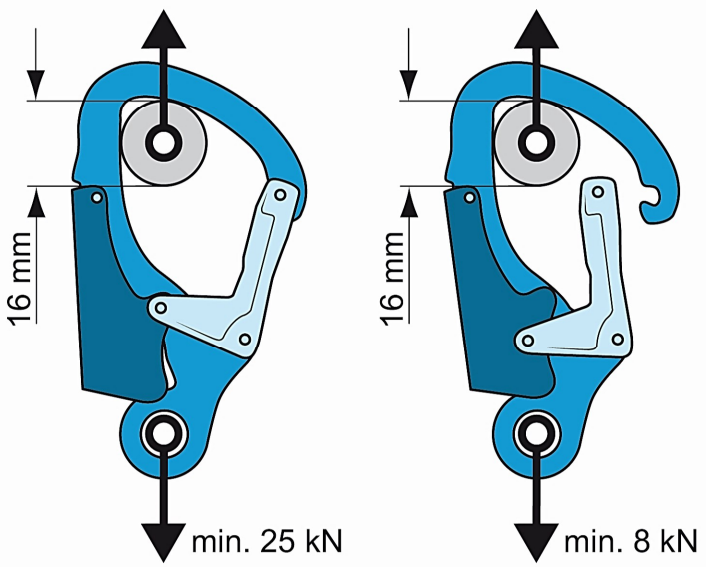
Marking of Strength (in kN)



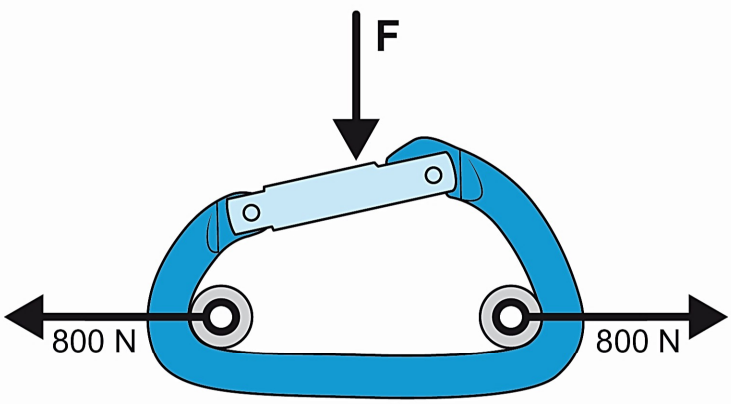
strength

xx	in main direction
yy	in transverse direction
zz	gate-open

Major Axis Tests



Functionability of Gate Underhood



When applying a force of 800 N in mean direction, it must be possible for the user to open the gate by hand.

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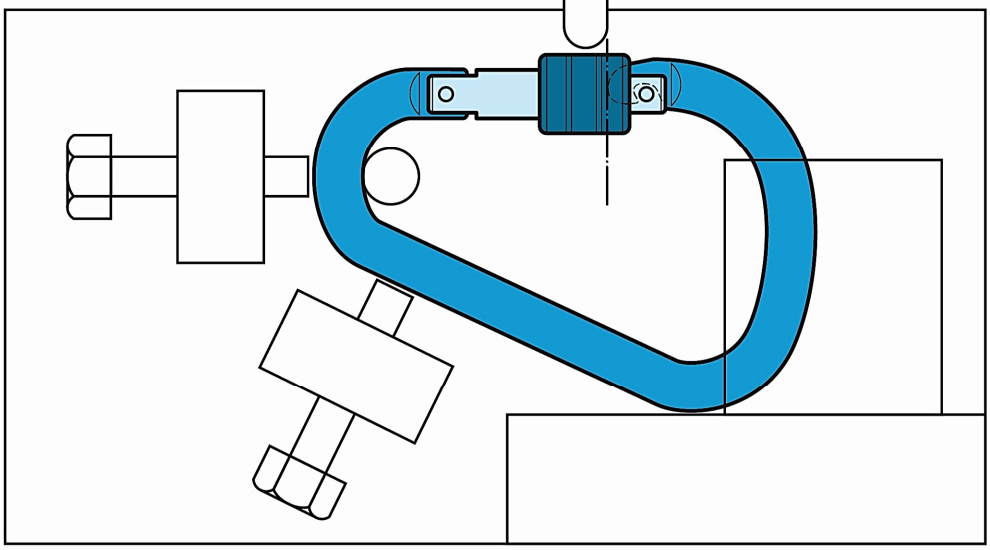
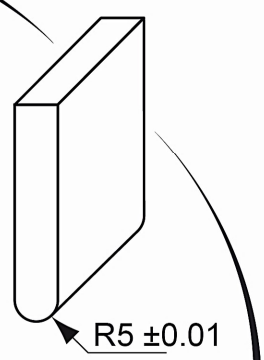
Locking Device Strength

for all connectors with a locking device

Force
F

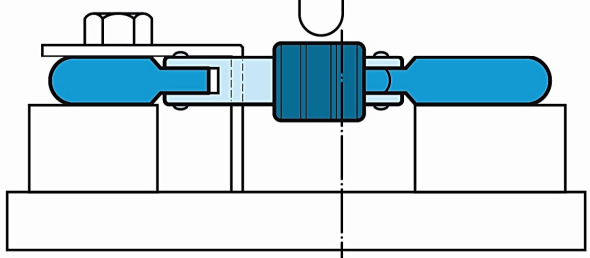
After applying a force F = 10 N for 60 secs the gate-locking device must still be functional.

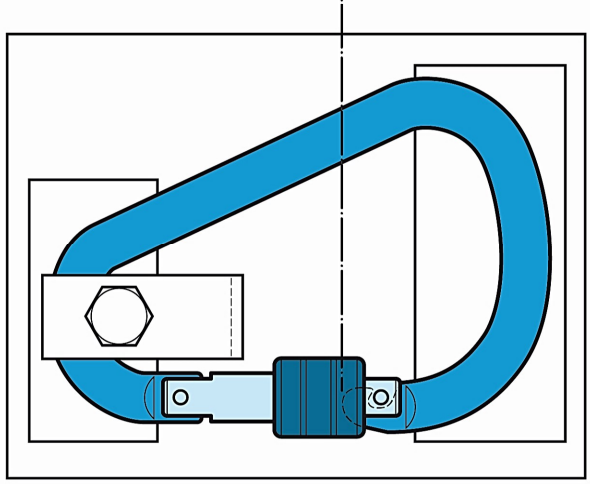




Force
F

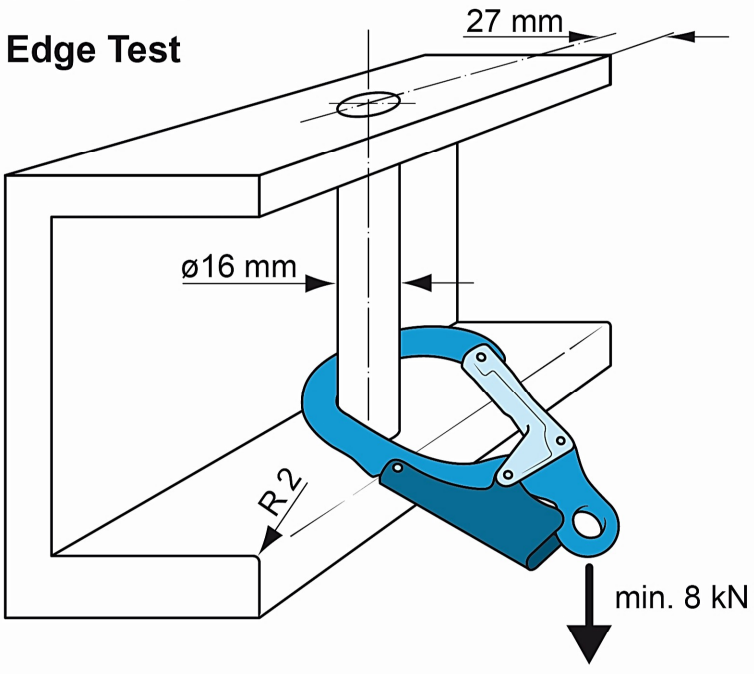
After applying a force F = 1,5 kN for 60 secs the gate-locking device must still be functional.





Additional UIAA Requirements
(only for type K)

Edge Test



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