New standardization of technical torrent control structures in Austria.

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Abstract: (250 to 500 words: for each heading use the bullet points or narrative - the submission including graphics should not exceed one page)

Due to a long tradition in the torrent control works, different approaches for designing and numerous types of protection structures on different condition levels existing in Austria.

To harmonize the different approaches, an interdisciplinary working group (ON-K-256) was launched for a standardization of the design of technical structures founded on the Eurocode, encompassing torrential processes, snow avalanches and rock fall.

Solutions - Methods

New standardization of the design of technical structures founded on the Eurocode
- scenario-oriented protection concepts
- including variable disposition of a torrent catchment
- including transition of the predominant displacement process

New harmonized stress model and the load distribution
- For debris flows, for example, a standardized stress model in ONR 24801 combines the static and dynamic load by debris flow impact on the structure.

Novelty - Value

The new standardization for torrential processes in Austria
- Definition and classification (ONR 24800)
- Action on structures (ONR24801)
- Design of structures (ONR24802)
- Operation, monitoring and maintenance (ONR 24803)

Forum statement
New standardization of technical torrent control structures in Austria to enable practitioners to properly design debris flow countermeasures.

Keywords: (up to 5 keywords)
Torrent control; debris flow; standard; Austria