

Lesson - Sandbags



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Summary

- Safety (working in/around flooded areas)
- Sandbags (general, correct filling, different kinds of sandbags)
- Logistics (materials, personnel, area, quantities per hour)
- Correct usage of sandbags

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Safety



gloves



life vest/PFD



rubber boots



waders

Sandbag types

- Different sizes



Sandbag types

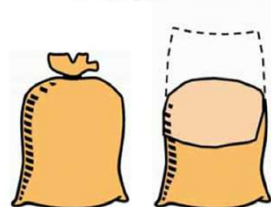
- Different materials



Filling sandbags



Correct filling (max. 20 kg or 2/3)



Filling methods



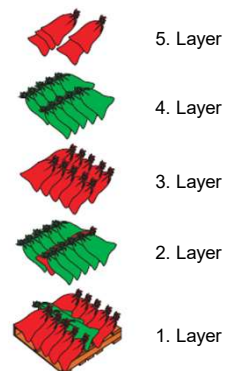
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Logistics



Packing-Example with 50 sandbags
on each pallet



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Logistics

Transport

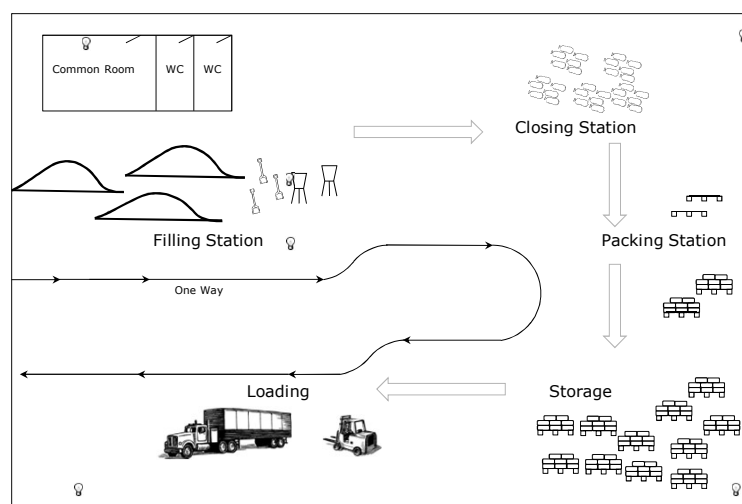


by truck



by hand

Example of a Sandbag Filling Area



Logistics

Filling area



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Logistics

- Purchasing the material
- Demand of time, personnel and material

The calculations apply only to a sandbags with the dimensions of 70cm x 30 cm with a 2/3 filling.
The determined number of sandbags applies, when the sandbags are laid with the Bottom facing water.
A transverse laying increases the sandbags requirement by the factor of 1,56.

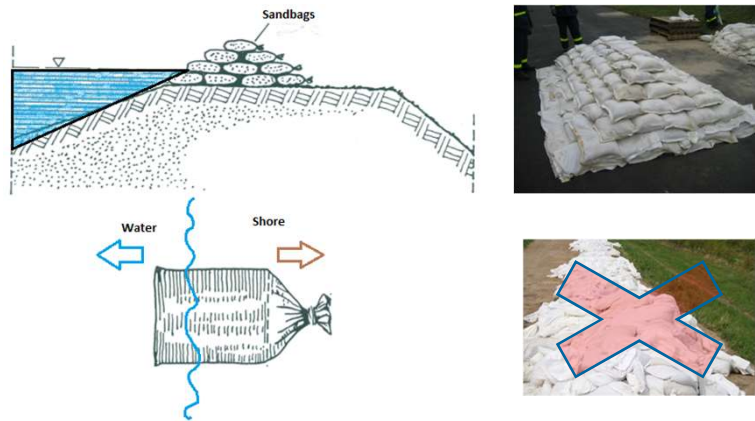
	Protection height	Number of Sandbags at a Length of		
		10 meters	50 meters	100 meters
1 Line	10 cm	21	107	214
2 Lines	20 cm	64	321	643
3 Lines	30 cm	129	643	1286
4 Lines	40 cm	214	1071	2143
5 Lines	50 cm	321	1607	3214
6 Lines	60 cm	450	2250	4500
7 Lines	70 cm	600	3000	6000
8 Lines	80 cm	771	3857	7714
9 Lines	90 cm	964	4821	9643
10 Lines	100 cm	1179	5893	11786

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How to use a sandbag

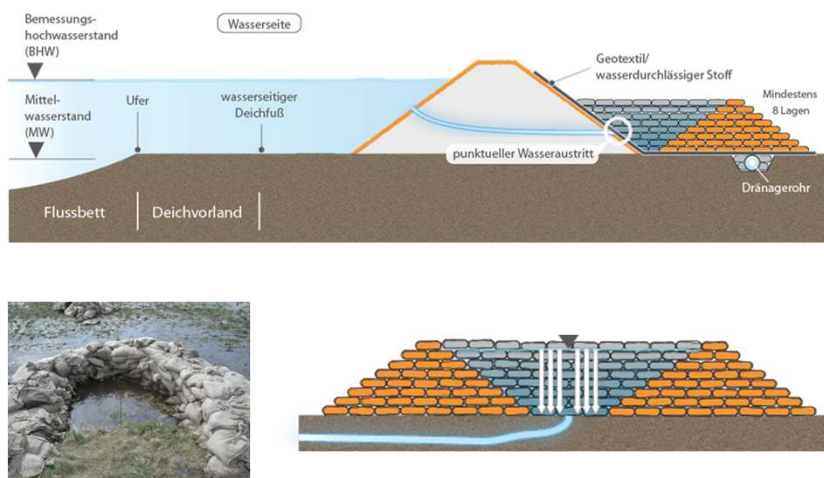
- How to build a sandbag wall



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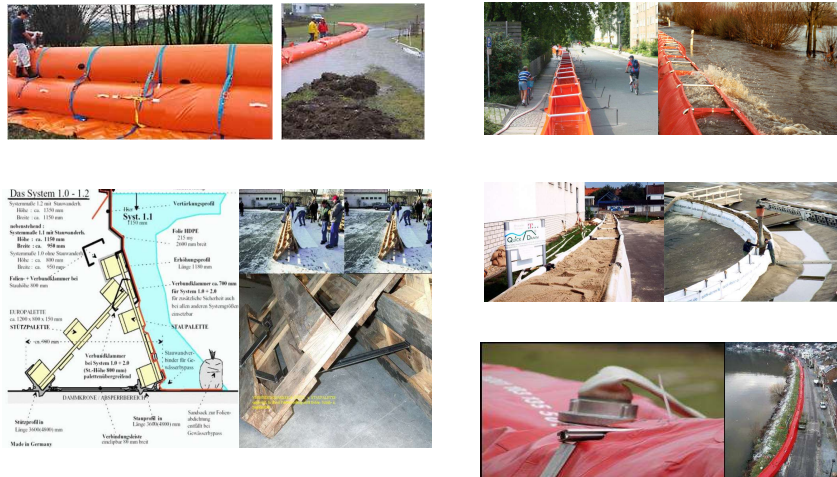
How to use a sandbag



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Forecast / Alternates



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Thank you for your attention

Any questions?

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