

Number	B-GOV1
Indicator name	Technical security of the buildings against floods and torrential rains
Area	G
Indicator definition	The indicator describes the scope and nature of technical measures and the fulfilment of construction and technical conditions for the protection of the building against water penetration.
Indicator unit	Points
Key words	Floods, torrential rains, inundations, flood protection, building security
Reason for tracking and usability	<p>The degree of security of a building against water intrusion determines the adaptive capacity and resistance of the building to the effects of climate change in the form of more numerous episodes of fluvial and pluvial floods. The buildings are protected against groundwater intrusion by waterproofing. A properly constructed roof protects buildings from atmospheric precipitation with separate waterproofing. It can protect against further penetration of atmospheric precipitation by further covering the building and especially building openings with roofs. During floods, the height of the water column acting with a hydrostatic force on the structures increases and water penetrates the building through all the "weak points". For such cases, the buildings can be secured with special elements of technical protection.</p> <p>Examples:</p> <ul style="list-style-type: none">- Means of technical security of buildings against floods: https://lnk.sk/fjkh- Construction-technical conditions (principles) for protection of the building against floods: https://lnk.sk/hkw4- Drainage sidewalks: https://lnk.sk/tvkw
Completeness, representativeness, validity	The indicator takes into account 15 partial measures that generally serve as protection against water penetration into the building. It does not evaluate specific local conditions, cannot replace technical tests and does not evaluate the specific implementation (quality and scope) of individual measures.

Description of data
processing

It is evaluated according to the checklist of building parameters. The point value given in the table is taken into account for meeting the relevant parameter. Table / checklist:

- 1 - building with a regular floor plan without risalits and shaping: 1 point
- 2 - waterproofing on the entire roof surface (flat or sloping): 1 point
- 3 - roof waterproofing without defects: 1 point
- 4 - functional and sufficient capacity drainage of rainwater from the entire roof area: 1 point
- 5 - covering the building or courtyard with another roof with rainwater drainage: 1 point
- 6 - covering the predominant number of entrances and entrances with a roof (including entrances to cellars and basements): 1 point
- 7 - predominant share of the area of building openings (doors, windows) above ground level: 1 point
- 8 - horizontal waterproofing of foundations in the whole floor plan: 1 point
- 9 - vertical waterproofing of foundations around the entire perimeter: 1 point
- 10 - special waterproofing of foundations against pressurized water: 2 points
- 11 - surrounding terrain (land) mostly considering the direction from the house: 2 points
- 12 - predominant slope of sidewalks and adjacent paved areas at least 2% in the direction from the building: 1 point
- 13 - adjacent gutters with drainage on the predominant part of the perimeter: 1 point
- 14 - secured entrances to cellars and basements, for example by raising the terrain to prevent direct leakage by a sufficient gutter, etc. mobile flood barrier: 2 points
- 15 - fixed flood gates and shutters: 3 points

Maximum: 20 points

If the building is built on piles (with a flow zone), uses a lifting device or is otherwise systematically secured against flooding, all points from parameter 6 onwards are automatically counted.

Data source

Own owner/administrator data, project, construction and technical documentation of the building, operational documentation

Tracking frequency

2 – 3 years

Urban influence

The city/city district/municipality can directly invest in the flood protection of buildings owned by it, or support these measures on the buildings of other owners financially or otherwise.

Presentation method

The results will be presented in a uniform KLIMASKEN framework on a five-point scale according to the sum of points from the evaluation table: 5(E): ≤ 3 ; 4(D): 4-7; 3(C): 8-11; 2(B): 11-15; 1(A): ≥ 16

Responsibility

Owner, building manager
