

NEW EUROPEAN BAUHAUS

self-assessment method and tool

Technical Workshop

New European Bauhaus self-assessment method and tool for buildings and living spaces

Beauty assessment

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1st Day: 3 April 2025 (Afternoon) – 12:30 – 16:35



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Beauty KPIs – Aesthetics aspects: context and sense of place

Ivana Katurić

Providing spatial coherence in planning and design (B.8)

- Spatial coherence and urban cohesion (B.8.1) x 0.4
- Re-use of spaces and buildings (B.8.2) x 0.3
- Green urban areas (B.8.3) x 0.3

Spatial coherence and urban cohesion (B.8.1)

- In addition to essential form-based (normative) concepts in urban design referring to principles and regulations that guide the physical form of urban environments (e.g. density, compactness, continuity, connectivity, etc.), B.8.1 indicator takes into account material, typological, and aesthetic concepts, as well as function-related aspects
 - Scale and proportion
 - Open space connectivity
 - Density compatibility
 - Integration with surroundings
 - Coherence with local spatial and strategic planning

Re-use of spaces and buildings (B.8.2)

- Indicator assesses the extent to which existing buildings and spaces are reused or adapted for new purposes, thus proceeding with renovation projects and/or remediation of contaminated (i.e. dismissed industrial areas) or underutilised areas for newbuild projects, instead of using unsealed land, according to the paradigm of the no net land take (COM, 2021c).
- Re-development of contaminated areas (RCA).
 - Re-development of functionally devalued areas (RDA).



The building of the former Austro-Hungarian barracks in Šibenik, Croatia, phot. I. Katuric

Green urban areas (B.8.3)

- Indicator determines whether a project integrates easily accessible green areas, preserve and improve the quality of the place. The indicator also assesses whether a project is improved through dedicated solutions, such as promotion of spatial interventions that incorporate elements of the landscape, its vegetation and patterns, integration of existing natural features, and inclusion of new natural features in a multifunctional network that supports site quality and biodiversity.

— Increased areas under canopy cover (IC)

$$IC = \frac{\text{Total area of the exterior spaces covered by canopy [m}^2\text{]}}{\text{Total area of exterior spaces [m}^2\text{]}} \cdot 100 [\%]$$

— Green infrastructure integration (GI)

$$GI = \frac{\text{Area of unsealed soil [m}^2\text{]}}{\text{Total area of exterior spaces [m}^2\text{]}} \cdot 100 [\%]$$

— Biodiversity enhancement (BE)

$$BE = \frac{\text{Post-intervention abundance} - \text{Pre-intervention abundance}}{\text{Pre-intervention abundance}} \cdot 100 [\%] \leq 100 \%$$

Beauty KPIs – Aesthetics aspects: context and sense of place

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Improving preservation of cultural and natural heritage (B.9)

- Historical fabric preservation (B.9.1)
- Integrated heritage/natural landscape conservation (B.9.2)
- Improving preservation of cultural and natural heritage in renovated buildings (B.9.3)

Historical fabric preservation (B.9.1)

- The historical fabric preservation (B.9.1) indicator assesses the holistic preservation efforts within a heritage project to maintain the authentic character and visual integrity of historical structures and surroundings, encompassing the preservation of various aspects.

— Preserved patina (PP)

$$PP = \frac{\text{Area of presevered patina [m}^2\text{]}}{\text{Total area of external walls of building [m}^2\text{]}} \cdot 100 [\%]$$

— Preserved original/historic structural elements (PSE)

$$PSE = \frac{\text{Area of preserved structural elements [m}^2\text{]}}{\text{Total floor area of building [m}^2\text{]}} \cdot 100 [\%]$$

— Preserved original/historic openings (PO)

$$PO = \frac{\text{Number of preserved openings}}{\text{Total number of openings}} \cdot 100 [\%]$$

— Heritage value (HV)

Sub-metric	Score (points)
Rate each sub-metric below according to a scale of points (0-5, where 0 corresponds to absence of feature, 1 to very weak, 2 to weak, 3 to moderate, 4 to strong, and 5 to very strong presence of features) and sum the three scores)	
Representativeness: evaluate how the heritage site represents a particular period, style, or cultural aspect?	0 to + 5
Ambient value: evaluate the heritage site environmental and aesthetic qualities, consider its natural surroundings, landscape, and overall atmosphere.	0 to + 5
Aesthetic coherence: evaluate the architectural significance, innovation, and craftsmanship of the buildings within the heritage site.	0 to + 5
Heritage value (HV) metric score = Σ sub-metric scores	$0 \leq HV \leq 15$

$$HV = \frac{\text{HV awarded number of points}}{\text{HV maximum number of points} = 15} \cdot 100 [\%]$$

Integrated heritage/natural landscape conservation (B.9.2)

- Indicator assesses the combined efforts in preserving and restoring both traditional cultivated landscapes and original, historic green areas
 - Traditional cultivated landscape preservation and restoration (TLPR)
 - Preserved or recovered original, historic green spaces (PRGS)



Preserved green corridor, Pazin, Croatia, left phot: archive of old city postcards, right phot: I. Katuric

Improving preservation of cultural and natural heritage in renovated buildings (B.9.3)

- Indicator aims to ensure that renovated buildings retain their historical and cultural integrity, contributing to the preservation of cultural and natural heritage in the built environment. The indicator emphasizes the importance of restoration practices that respect and enhance the unique heritage value of each building or space
 - Preserved original/historic structural elements (PSE).
 - Preserved original/historic openings (PO).
 - Preserved or enhanced original, historic green spaces (PEGS).
 - Interaction with immediate surrounding (IIS).
 - Preserved key features of the building or space (PKF).



Facade of a building in Šibenik's historic center (not under formal protection), phot. I. Katuric

Beauty KPIs – Aesthetics aspects: context and sense of place

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Maintaining genius loci and improving sense of belonging (B.10)

— Sense of place harmony (B.10.1)

Sense of place harmony (B.10.1)

- The Sense of place harmony (B.10.1) indicator assesses the unique cultural identity, emotional resonance, and sense of place within a designated geographic area. It examines whether spatial solutions within a project consider the needs of individuals, communities, spaces and places, of values and resources.
 - Rareness of landscape/heritage site types (RS)
 - Sense of attachment (SA)

Thank you



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