

ON YOUR ROOF —
GET SET —
GREEN!
GREEN ROOF STRATEGY
FOR HAMBURG

Extension of the bunker
BUKEA/Isadora Tast (2024)

■ REPURPOSING A BUNKER AS A GREEN OPEN SPACE AT LOFTY HEIGHTS

St. Pauli Bunker

The St. Pauli Bunker offers a glimpse into the future of urban cityscapes. The extension of the existing building creates new public spaces with exciting views over Hamburg. The roof areas are accessible via a unique construction, a so-called mountain path, that takes into

account both the protection of historical monument as well as making the ascent an experience in itself. The staggered vegetation creates several levels that allow for a natural interplay of trees, hedges, ground-covering perennials, hanging shrubs and climbing plants.



Address:

Feldstraße 66, 20359 Hamburg

Year of construction/construction of the green building: 1942-1943 / 2022-2024



Utilisation:

Information and memorial site, event area, music club, hotel, urban gardening, school sports hall, neighbourhood facilities, public roof garden at a height of 58 m



System:

Intensive green roof at a height of between 35 to 58 metres. System: A retention green roof with throttled drains; façade greening that is bound to the ground on a climbing cable system; wall-bound façade greening with modular system



Roof slope:

Pyramid-like construction with six levels and no gradient; a 560 m long green mountain path around the building with a three per cent gradient



Client:

Erste Hanseatische Projektmanagement GmbH

Planning & execution:

Landscape architecture: Landschaftsarchitektur+Holzapfel-Herziger & Benesch; building construction: BUERO51 Architekten, INTER±POL Studios, phase 10 Ingenieur- und Planungsgesellschaft; gardening and landscaping: Klaus Hildebrandt; tree nursery: Lorenz von Ehren; citizens' initiative: Hildegarden e.V.



Greening:

Approx. 7,600 m² of green roofs and approx. 1,700 m² of green façades, utilising 4,700 shrubs and 16,000 perennials. Planting with a high proportion of evergreen plants. The varieties used include: Common juniper, Portuguese cherry laurel, Prague snowball, field maple, copper rock pear, shrubby Scots pine and Scots pine. The substrate thickness is up to 90 cm (sub-substrate and intensive substrate), with an approx. weight of 1,100 kg/m³ (in water-saturated state this increases to 1,800 kg/m³)



Irrigation system:

Automatic irrigation all year round; utilisation of rainwater from the storage tank in the drainage layer (fed via cascade irrigation from the roof and, if required, via the public network); irrigation via subsurface irrigation and drip lines from a rainwater-fed cistern, fed from the public network

New prospects
BUKEA (2024)



Publicly accessible sunbathing lawn at a lofty height
BUKEA/Isadora Tast (2024)

Special added value


- Roofgarden**
Publicly accessible green space that complements existing neighbourhood green spaces. A place to meet, socialise and relax

- Multiple use**
Spatial proximity of services (events, hotel, information and remembrance centre, neighbourhood work, urban gardening) with open spaces

- Site-appropriate vegetation**
Resilient plants that cope well with wind, frost and drought (especially northern European and alpine woody plants)

- Culture of remembrance**
Planning in consideration of monument protection; creation of an information and memorial centre dedicated to the history of the Bunker structure; visualisation and experience of historical buildings

€ Total costs for building green / m²
high medium low

 Maintenance effort
high medium low

Overall concept

- Conversion of an historic, listed building and appropriate handling of its urban history

- Climate adaptation measures integral to the building

- New landmark and centre of attraction

- Cooperation with neighbourhood citizens' initiative

- Scientific investigation of beetle occurrence on green spaces by the environmental authority; monitoring by the TU Berlin on the topics: microclimatic effect of greening, irrigation functionality, investment and operating costs, and heavy rainfall management



View of the meadow and the mountain path
BUKEA/Isadora Tast (2024)

V.i.S.d.P. Birgit Seitz (2024).
 Kontakt: gruendach@bukea.hamburg.de
 www.hamburg.de/gruendach

„The greening of the bunker is much more than a new form of urban nature and the opening up of the roof area of a World War II bunker to the public. It is a building block in the transformation process of a building from a gloomy space to a social place where culture, community and future issues play a key role.“

Urte Ußling, Spokeswoman of the Board of Hildegarden e. V.



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