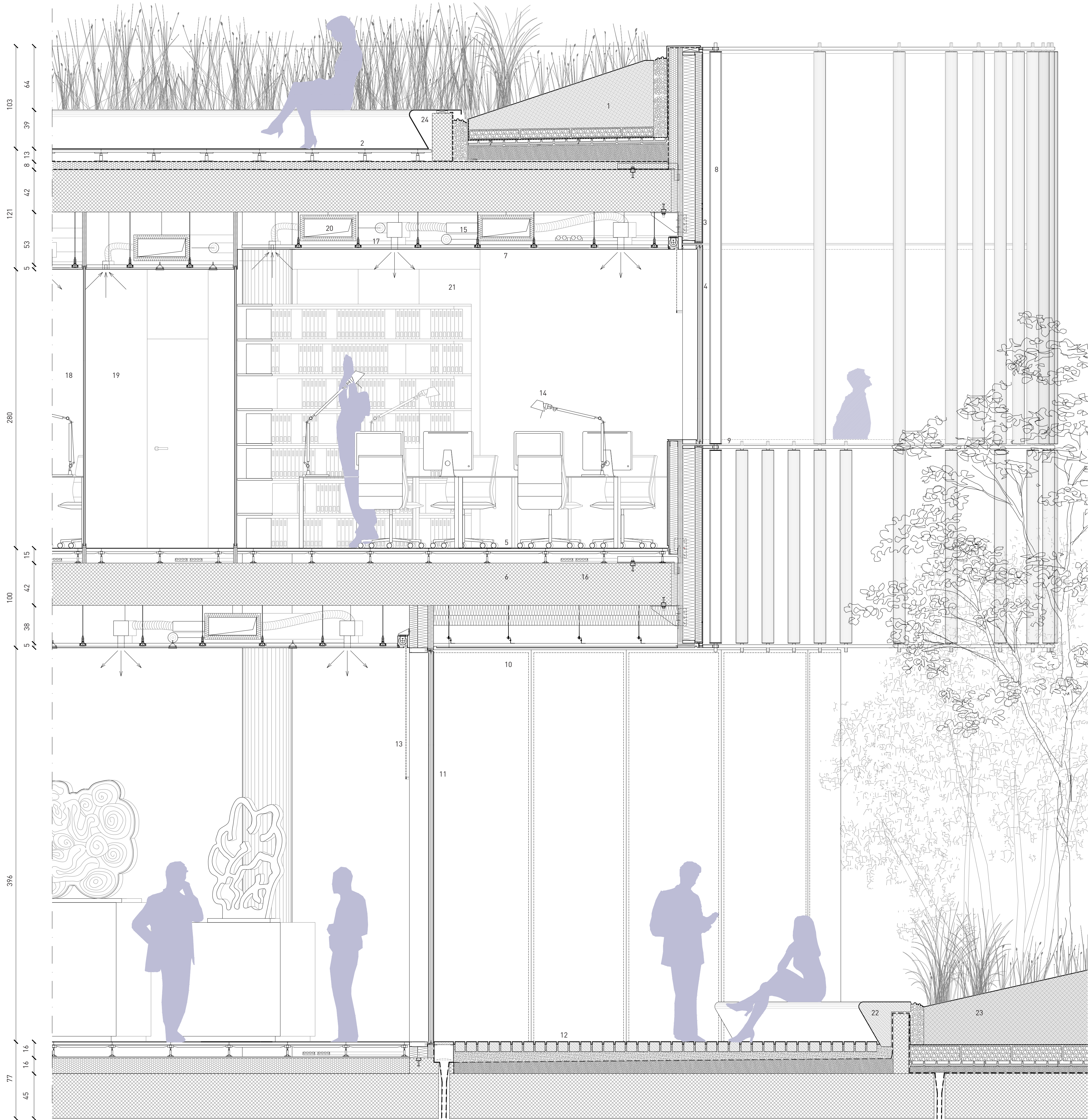


# Building envelopes as climate-responsive membranes

If a traditional **loden** overcoat acted out all the required tasks with a **single thick fabric**, today's **building skins** rather **resemble technical sport jackets**, where each **different layer** responds to a **specific function**: waterproofing, thermal insulation, shading from solar radiation, visual privacy. The simple and economical use of **borosilicate glass tubes** - transparent, sanded or containing opaque shading elements - arranged in **different rhythms** perform many of these, while **providing an adequate surface texture** to the different buildings of the complex.

- 1. green rooftop, drip-wing irrigation
- 2. wooden deck, high reflectance color to limit the heat island effect
- 3. curtain wall, cellular facade - spandrel band, screen-printed laminated glass fixed on the insulating panel
- 4. curtain wall, cellular facade - vision band, selective camera glass
- 5. elevated floor in calcium silicate
- 6. reinforced concrete slab
- 7. micro-perforated metal false ceiling with mineral wool acoustic panel and integrated radiant panels
- 8. brise - soleil, borosilicate tubes with metal screen
- 9. string course in anodized aluminum
- 10. exterior false ceiling in aquapanel
- 11. ground floor transparent window
- 12. external paving in porphyry cubes
- 13. filter curtain for glare control, regulated by sensor
- 14. low-power LED lighting
- 15. monitoring of different systems via BMS
- 16. power distribution and data
- 17. air flow control via BMS based on air quality
- 18. fan-coil for meeting rooms
- 19. resumption of exhaust air in the most internal areas, isolated channel connected to the AHU
- 20. air supply, isolated channel
- 21. internal finishes in materials with low emission of volatile compounds
- 22. stone bench
- 23. green open spaces, drip-wing irrigation
- 24. metal bench



Section BB' scale 1:20

