



CONTEMPORARY TRENDS IN INCLUSIVE LANDSCAPE DESIGN OF RESIDENTIAL URBAN ENVIRONMENTS

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Inclusive landscape design plays a crucial role in shaping residential urban environments that are accessible, aesthetically cohesive, and functionally adaptable for diverse user groups. However, beyond meeting accessibility requirements, the artistic and spatial composition of such spaces is often underexplored. This paper examines contemporary trends in inclusive landscape design, focusing on materiality, sensory experience, and innovative artistic approaches. Through case studies of inclusive urban residential landscapes, key strategies and emerging trends are analyzed, demonstrating how accessibility and aesthetics can be successfully integrated into urban environments.

Keywords: *inclusive design, landscape composition, residential environments, accessibility, urban aesthetics*

INTRODUCTION

The demand for inclusive public spaces in urban residential areas is increasing as cities seek to accommodate diverse populations, including elderly individuals, people with disabilities, and families with young children. While accessibility guidelines ensure functional usability, they do not always address the artistic, spatial, and compositional aspects of inclusive landscape design. Traditional residential outdoor spaces often lack coherent design strategies that balance inclusivity with visual appeal, leading to fragmented environments that fail to engage diverse users aesthetically. This study explores how contemporary trends and innovative methods enhance the inclusivity of residential landscapes, transforming them into both functional and aesthetically inviting spaces.

PURPOSE

This study aims to examine emerging trends in inclusive residential landscape design, analyze how materiality, sensory experience, and artistic solutions influence inclusivity in urban environments, and identify innovative design practices that enhance social interaction and accessibility in residential outdoor spaces.

RESULTS AND DISCUSSION

Modern inclusive landscape design integrates multiple approaches to enhance accessibility while maintaining aesthetic and functional coherence. One key trend is the shift toward multisensory landscapes, which incorporate tactile paving, aromatic plants, and textured materials to engage users with visual or



cognitive impairments. Interactive and adaptive elements, such as dynamic seating arrangements and flexible-use pathways, further contribute to creating user-friendly outdoor spaces. Additionally, sustainable materials and biophilic design are becoming increasingly prevalent, incorporating natural elements like wood, stone, and water features to enhance comfort and usability.

Several exemplary projects demonstrate the successful application of these trends. The Kampung Admiralty community complex in Singapore (Fig. 1) [1] integrates accessible green terraces, shaded public areas, and therapeutic gardens to foster intergenerational interaction and support mental well-being. Prinzessinnengarten in Berlin, Germany (Fig. 2) [2], is a community-driven initiative that promotes inclusive urban gardening through modular, elevated planting beds, making green spaces accessible to individuals with mobility limitations [3]. Bishan Hongmaoqiao Park in Singapore is another prime example (Fig. 3) [4], featuring universally accessible walking paths, interactive sensory zones, and barrier-free recreational areas that accommodate diverse user needs.



a



b

Fig. 1. Kampung Admiralty community complex project (author WOHA Architects)



a



b

Fig. 2. The Prinzessinnen garten (author Marco Clausen & Robert Shaw)

In China, Shenzhen Vanke Cloud City demonstrates the integration of green roofs (Fig. 4) [5], vertical gardens, and open public plazas designed for universal



accessibility. Gradual elevation transitions, wide pedestrian walkways, and strategically placed seating areas enhance social interaction while maintaining visual cohesion. Similarly, the immigrant community in London's East End exemplifies how culturally adaptive landscape design can address the needs of a diverse population (Fig. 5) [6]. Sensory gardens, multilingual wayfinding elements, and multifunctional gathering spaces make public areas more inclusive and welcoming.



a



b

Fig. 3. Bishan Hongmaoqiao Park in Singapore (author Peter Gates and partners)



a



b

Fig. 4. Shenzhen Vanke Cloud City (author Shenzhen Yijia Design Co., Ltd.)



a



b

Fig. 5. The immigrant community in London's East End (author Matt Biddulph)



CONCLUSION

This study highlights the significance of contemporary trends and innovative strategies in designing inclusive residential urban landscapes. By examining recent case studies and emerging methodologies, the research identifies key principles for creating environments that balance aesthetic appeal with accessibility. The findings suggest that successful inclusive landscapes integrate multisensory engagement, adaptable spatial organization, and sustainable material applications to enhance both functionality and artistic quality. Future research should explore how technological advancements can further contribute to creating interactive and universally accessible urban residential landscapes.

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ХУАН Сюань, БУЛГАКОВА Т.

СУЧАСНІ ТЕНДЕНЦІЇ ІНКЛЮЗИВНОГО ЛАНДШАФТНОГО ДИЗАЙНУ ЖИТЛОВОГО МІСЬКОГО СЕРЕДОВИЩА

Інклюзивний ландшафтний дизайн відіграє ключову роль у формуванні житлового міського середовища, яке є доступним, естетично гармонійним і функціонально адаптивним для різних груп користувачів. Проте, окрім забезпечення базових вимог доступності, художній і просторовий складник таких просторів часто залишається недостатньо дослідженим. У цій статті розглядаються сучасні тенденції інклюзивного ландшафтного дизайну з акцентом на матеріальність, сенсорне сприйняття та інноваційні художні підходи. Аналізуючи кейс-стаді інклюзивних міських житлових просторів, визначено ключові стратегії та актуальні тенденції, що демонструють, як інклюзивність та естетика можуть бути успішно інтегровані в міське середовище.

Ключові слова: *інклюзивний дизайн, ландшафтна композиція, житлове середовище, доступність, міська естетика.*