

## Supplementary Materials S1: Satisfaction and Importance Evaluation of Public Rest Areas in Commercial Complexes

Survey Location: \_\_\_\_\_

Dear Citizens:

Thank you for taking the time out of your busy schedule to read my questionnaire patiently. I am a student from the School of Architecture and Design at Harbin Institute of Technology, conducting this survey on the satisfaction of public rest areas in commercial complexes to complete my thesis successfully. I hope to receive your valuable help and support. This questionnaire is expected to take 5-10 minutes, and the information obtained will be used solely for academic research. Thank you for your sincere cooperation!

## I. Basic Information

1. Your age: ☐ Under 18 ☐ 18-30 ☐ 30-45 ☐ 45-60 ☐ Over 60
2. Your gender: ☐ Male ☐ Female
3. Education: ☐ Associate degree and below ☐ Bachelor's degree ☐ Master's degree and above
4. Occupation: ☐ Government/social organization/public institution employee ☐ Company employee  
☐ Freelancer ☐ Professional in research/education/art/sport/health/journalism ☐ Sole proprietor ☐ Student

## II. Scoring the Importance and Satisfaction of Public Spaces

Please rate the importance and satisfaction of the following items in relation to your current location (it is recommended that you take a look at all the indicators and rate them according to your true feelings).

Satisfaction: As a visitor, your level of satisfaction with the space, where “1” is very dissatisfied, “2” dissatisfied, “3” average, “4” satisfied, “5” very satisfied.

Importance: Your perception of how important the criterion is for optimizing the space, where “1” is not at all important, “2” unimportant, “3” average, “4” important, “5” very important.

Indicator Dimension	Specific evaluation indicator (21)	Satisfaction Score					Importance Score				
		1	2	3	4	5	1	2	3	4	5
Rest facilities	Number of seats (1)										
	Material of seats (2)										
	Seat arrangement (3)										
Auxiliary facilities	Storage facilities (4)										
	Shared service facilities (5)										
	Vending facilities (6)										
	Entertainment facilities (7)										
	Decorative sketch facilities (8)										
Place Conditions	Site safety (9)										
	Site accessibility (10)										
	Cleanliness and Maintenance (11)										
Environmental	Environmental crowding degree										

perception	(12)		
	Spatial privacy (13)		
	Physical environment comfort (14)		
	Color richness (15)		
	Interface coordination (16)		
	Field of view width (17)		
Spiritual experience	Attractiveness/Significance (18)		
	Aesthetic Pleasure (19)		
	Cultural/regional (20)		
	A Cultural/regional (20)		

Thank you again for your cooperation, and I wish you a pleasant life!

# Supplementary Materials S2: VR Virtual Simulation Experiment Evaluation Questionnaire

Dear Sir/Madam:

I am a graduate student at Harbin Institute of Technology, currently researching the optimization of public rest spaces in commercial complexes. Please evaluate the virtual tour experience of the commercial complex's public rest space you just had. The questionnaire is anonymous. I am honored to hear your opinion. Thank you for your cooperation!

## I. Evaluation of Pathway-Type Public Rest Spaces

		Very Negative (-3)	Negative (-2)	Slightly Negative (-1)	Neutral (0)	Slightly Positive (1)	Positive (2)	Very Positive (3)	
Spatial privacy	Open	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Private
Spatial scale sense	Constrained	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Spacious
Spatial pleasure level	Unpleasant	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Enjoyable
Spatial attractiveness	Uninteresting	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Interesting
Preference for staying	Want to Leave	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Want to Stay
Preference for selection	Not Preferred	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Preferred
Overall Scene Evaluation	Dissatisfied	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Satisfied

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