

Questionnaire about the indoor environment and Thermal Comfort for traditional historic stilt house, a Case of Dong Minority Dwelling during summer

Thank you very much for your participation. The following questionnaire is about the building performance survey, which is conducted by Guanxi Key Laboratory of New Energy and Building Energy Saving Guilin University of Technology. Your feedback is very valuable for us to evaluate and improve the building performance.

The survey is completely anonymous, we assure you your personal information will be kept strictly confidential. Thank you again for your cooperation.

1.Gender: [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Male	209	<div><div></div></div> 44.28%
Female	260	<div><div></div></div> 55.08%
Invalid	3	<div><div></div></div> 0.64%
Total questionnaires	472	

2.Age: [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Less than 30	117	<div><div></div></div> 24.79%
31~40	102	<div><div></div></div> 21.61%
41~50	102	<div><div></div></div> 21.61%
51~60	67	<div><div></div></div> 14.19%
Over 60	81	<div><div></div></div> 17.16%
Invalid	3	<div><div></div></div> 0.64%
Total questionnaires	472	

3.Your current dress:

Top, Bottom, Skirt, Shoes and socks[\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Long-sleeved T-shirt	17	<div><div></div></div> 3.6%
Short-sleeved T-shirt	335	<div><div></div></div> 70.97%
Long-sleeved shirt	18	<div><div></div></div> 3.81%
Short-sleeved shirt	42	<div><div></div></div> 8.9%
Suit pants	49	<div><div></div></div> 10.38%
Jean	52	<div><div></div></div> 11.02%
Pants	259	<div><div></div></div> 54.87%
Slim skirt	38	<div><div></div></div> 8.05%
Dress	53	<div><div></div></div> 11.23%
Anklet	14	<div><div></div></div> 2.97%
Stocking	7	<div><div></div></div> 1.48%
Leather shoes/sports shoes	56	<div><div></div></div> 11.86%
Sandal/slipper	337	<div><div></div></div> 71.4%

Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

4.Hong long have you been living in this building: [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Less than 1 year	20	<div><div></div></div> 4.24%
1-3years	83	<div><div></div></div> 17.58%
4-6years	72	<div><div></div></div> 15.25%
Over 6years	292	<div><div></div></div> 61.86%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

5.How much time do you usually spend at home in a week: [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Less than 40 hours	27	<div><div></div></div> 5.72%
40-55 hours	42	<div><div></div></div> 8.9%
55-70 hours	81	<div><div></div></div> 17.16%
Over 70 hours	317	<div><div></div></div> 67.16%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

6. The type of house you live in: [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Traditional Historic Stilt House in North Guangxi (Pile-Dwelling)	134	<div><div></div></div> 28.39%
Traditional Historic Semi-Stilt House in North Guangxi	172	<div><div></div></div> 36.44%
Reinforced Concrete Building	163	<div><div></div></div> 34.53%
Invalid	3	<div><div></div></div> 0.64%
Total questionnaires	472	

7. Do you think it is necessary for the house to be raised on stilts [\[Scale questions\]](#)

Average score: 0.71

Option	Subtotal	Proportion
There must be	117	<div><div></div></div> 24.79%
It is better for	157	<div><div></div></div> 33.26%
No idea	144	<div><div></div></div> 30.51%
It is not necessary to	40	<div><div></div></div> 8.47%
There must be no	9	<div><div></div></div> 1.91%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

8. Do you think it is necessary for the house of the entrance corridor? [\[Scale questions\]](#)

Average score: 0.75

Option	Subtotal	Proportion
There must be	108	<div><div></div></div> 22.88%
It is better for	171	<div><div></div></div> 36.23%
No idea	156	<div><div></div></div> 33.05%
It is not necessary to	26	<div><div></div></div> 5.51%
There must be no	6	<div><div></div></div> 1.27%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

9. Do you think it is necessary for the house of the fire pool? [\[Scale questions\]](#)

Average score: 0.39

Option	Subtotal	Proportion
There must be	72	<div><div></div></div> 15.25%
It is better for	149	<div><div></div></div> 31.57%
No idea	154	<div><div></div></div> 32.63%
It is not necessary to	71	<div><div></div></div> 15.04%
There must be no	21	<div><div></div></div> 4.45%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

10. How many bedrooms are there? [\[Single choice questions\]](#)

Option	Subtotal	Proportion
1	20	<div><div></div></div> 4.24%
2	36	<div><div></div></div> 7.63%
3	68	<div><div></div></div> 14.41%
4	124	<div><div></div></div> 26.27%
5	64	<div><div></div></div> 13.56%
6	38	<div><div></div></div> 8.05%
Over 6	115	<div><div></div></div> 24.36%
Invalid	7	<div><div></div></div> 1.48%
Total questionnaires	472	

11. What’s the orientation and number of windows in your house: [\[Multiple choice questions\]](#)

The title \ options	None	East	South	West	North	Invalid
Number and orientation	6(1.27%)	203(43.01%)	325(68.86%)	191(40.47%)	131(27.75%)	8(1.69%)

12. Do you think the individual control of the environment, including indoor air quality, thermal, lighting and acoustic environment, is important for you: [\[Scale questions\]](#)

Average score: 0.75

Option	Subtotal	Proportion
No, it is not important	7	<div><div></div></div> 1.48%

No idea	99	<div><div></div></div> 20.97%
Yes, it is important	350	<div><div></div></div> 74.15%
Invalid	16	<div><div></div></div> 3.39%
Total questionnaires	472	

13. What was your activity status during the first 30 minutes of filling out the questionnaire? [\[Single choice questions\]](#)

Option	Subtotal	Proportion
Lying	10	<div><div></div></div> 2.12%
Site	195	<div><div></div></div> 41.31%
Occasionally walk	178	<div><div></div></div> 37.71%
Standing	55	<div><div></div></div> 11.65%
Strenuous exercise	26	<div><div></div></div> 5.51%
Invalid	8	<div><div></div></div> 1.69%
Total questionnaires	472	

14. Physical parameters when filling in the questionnaire:

0.1 meters in height [\[Matrix text questions\]](#)

15. Physical parameters when filling in the questionnaire:

0.6 meters in height [\[Matrix text questions\]](#)

16. Physical parameters when filling in the questionnaire:

1.1 meters in height [\[Matrix text questions\]](#)

17. How satisfied are you with the overall indoor thermal environment in terms of temperature, humidity, wind speed etc.? [\[Scale questions\]](#)

**Average score: 1.19**

Option	Subtotal	Proportion
Very dissatisfied	1	<div><div></div></div> 0.21%
2	6	<div><div></div></div> 1.27%
3	28	<div><div></div></div> 5.93%
4	65	<div><div></div></div> 13.77%
5	179	<div><div></div></div> 37.92%
6	148	<div><div></div></div> 31.36%
Very satisfied	41	<div><div></div></div> 8.69%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	472	

18. How satisfied are you with the indoor air quality in terms of freshness, cleanliness, odor etc.? [\[Scale questions\]](#)

**Average score: 1.18**

Option	Subtotal	Proportion
Very dissatisfied	0	<div><div></div></div> 0%
2	4	<div><div></div></div> 0.85%
3	27	<div><div></div></div> 5.72%
4	66	<div><div></div></div> 13.98%
5	202	<div><div></div></div> 42.8%
6	123	<div><div></div></div> 26.06%

Very satisfied	46	<div><div></div></div> 9.75%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	472	

19. How satisfied are you with the current light environment in terms of glare prevention, brightness etc? [\[Scale questions\]](#)  
**Average score: 0.95**

Option	Subtotal	Proportion
Very dissatisfied	4	<div><div></div></div> 0.85%
2	10	<div><div></div></div> 2.12%
3	59	<div><div></div></div> 12.5%
4	58	<div><div></div></div> 12.29%
5	180	<div><div></div></div> 38.14%
6	116	<div><div></div></div> 24.58%
Very satisfied	42	<div><div></div></div> 8.9%
Invalid	3	<div><div></div></div> 0.64%
Total questionnaires	472	

20. How satisfied are you with the acoustic environment in terms of noise, privacy of conversation etc.? [\[Scale questions\]](#)  
**Average score: 0.53**

Option	Subtotal	Proportion
Very dissatisfied	4	<div><div></div></div> 0.85%
2	38	<div><div></div></div> 8.05%
3	85	<div><div></div></div> 18.01%
4	73	<div><div></div></div> 15.47%
5	138	<div><div></div></div> 29.24%
6	100	<div><div></div></div> 21.19%
Very satisfied	28	<div><div></div></div> 5.93%
Invalid	6	<div><div></div></div> 1.27%
Total questionnaires	472	

21. How satisfied are you with the overall indoor environment by overall consideration of indoor thermal environment, the indoor air quality, the light environment, the acoustic environment in winter? [\[Scale questions\]](#)  
**Average score: 1.13**

Option	Subtotal	Proportion
Very dissatisfied	0	<div><div></div></div> 0%
2	7	<div><div></div></div> 1.48%
3	27	<div><div></div></div> 5.72%
4	72	<div><div></div></div> 15.25%
5	188	<div><div></div></div> 39.83%
6	140	<div><div></div></div> 29.66%
Very satisfied	35	<div><div></div></div> 7.42%
Invalid	3	<div><div></div></div> 0.64%
Total questionnaires	472	

22. How satisfied are you by only considering the current thermal comfort (summer)? [\[Scale questions\]](#)

Average score: 0.9

Option	Subtotal	Proportion
Very dissatisfied	2	<div></div> 0.42%
2	13	<div></div> 2.75%
3	59	<div></div> 12.5%
4	57	<div></div> 12.08%
5	200	<div></div> 42.37%
6	105	<div></div> 22.25%
Very satisfied	34	<div></div> 7.2%
Invalid	2	<div></div> 0.42%
Total questionnaires	472	

23. How satisfied are you by only consideration of the air quality? [\[Scale questions\]](#)

Average score: 1.12

Option	Subtotal	Proportion
Very dissatisfied	1	<div></div> 0.21%
2	6	<div></div> 1.27%
3	36	<div></div> 7.63%
4	66	<div></div> 13.98%
5	189	<div></div> 40.04%
6	115	<div></div> 24.36%
Very satisfied	51	<div></div> 10.81%
Invalid	8	<div></div> 1.69%
Total questionnaires	472	

24. How satisfied are you by only consideration of the light environment (glare prevention, brightness) of the room? [\[Scale questions\]](#)

Average score: 0.89

Option	Subtotal	Proportion
Very dissatisfied	6	<div></div> 1.27%
2	8	<div></div> 1.69%
3	59	<div></div> 12.5%
4	65	<div></div> 13.77%
5	175	<div></div> 37.08%
6	123	<div></div> 26.06%
Very satisfied	29	<div></div> 6.14%
Invalid	7	<div></div> 1.48%
Total questionnaires	472	

25. How satisfied are you with the acoustic environment only? [\[Scale questions\]](#)

Average score: 0.44

Option	Subtotal	Proportion
Very dissatisfied	10	<div></div> 2.12%
2	30	<div></div> 6.36%

3	85	<div><div></div></div> 18.01%
4	89	<div><div></div></div> 18.86%
5	146	<div><div></div></div> 30.93%
6	86	<div><div></div></div> 18.22%
Very satisfied	21	<div><div></div></div> 4.45%
Invalid	5	<div><div></div></div> 1.06%
Total questionnaires	472	

26. How satisfied are you with the current living environment by consideration of space and structural safety? [\[Scale questions\]](#)  
**Average score: 1.22**

Option	Subtotal	Proportion
Very dissatisfied	0	<div><div></div></div> 0%
2	4	<div><div></div></div> 0.85%
3	18	<div><div></div></div> 3.81%
4	62	<div><div></div></div> 13.14%
5	209	<div><div></div></div> 44.28%
6	137	<div><div></div></div> 29.03%
Very satisfied	38	<div><div></div></div> 8.05%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	472	

27. How satisfied are you with the indoor thermal environment for a whole year? [\[Scale questions\]](#)  
**Average score: 0.85**

Option	Subtotal	Proportion
Very dissatisfied	2	<div><div></div></div> 0.42%
2	13	<div><div></div></div> 2.75%
3	60	<div><div></div></div> 12.71%
4	66	<div><div></div></div> 13.98%
5	183	<div><div></div></div> 38.77%
6	119	<div><div></div></div> 25.21%
Very satisfied	23	<div><div></div></div> 4.87%
Invalid	6	<div><div></div></div> 1.27%
Total questionnaires	472	

28. How satisfied are you with the ventilation of your house? [\[Scale questions\]](#)  
**Average score: 1.15**

Option	Subtotal	Proportion
Very dissatisfied	0	<div><div></div></div> 0%
2	5	<div><div></div></div> 1.06%
3	30	<div><div></div></div> 6.36%
4	72	<div><div></div></div> 15.25%
5	193	<div><div></div></div> 40.89%
6	117	<div><div></div></div> 24.79%

Very satisfied	51	<div><div></div></div> 10.81%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	472	

29. How satisfied are you with the illumination of your dwelling? [\[Scale questions\]](#)  
**Average score: 0.85**

Option	Subtotal	Proportion
Very dissatisfied	7	<div><div></div></div> 1.48%
2	10	<div><div></div></div> 2.12%
3	64	<div><div></div></div> 13.56%
4	62	<div><div></div></div> 13.14%
5	173	<div><div></div></div> 36.65%
6	125	<div><div></div></div> 26.48%
Very satisfied	27	<div><div></div></div> 5.72%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	472	

30. How satisfied are you with sound insulation of your dwelling? [\[Scale questions\]](#)  
**Average score: 0.51**

Option	Subtotal	Proportion
Very dissatisfied	6	<div><div></div></div> 1.27%
2	29	<div><div></div></div> 6.14%
3	87	<div><div></div></div> 18.43%
4	84	<div><div></div></div> 17.8%
5	142	<div><div></div></div> 30.08%
6	94	<div><div></div></div> 19.92%
Very satisfied	23	<div><div></div></div> 4.87%
Invalid	7	<div><div></div></div> 1.48%
Total questionnaires	472	

31. How satisfied are you with the overall living environment of your village (air quality, facility convenience, neighborhood relationship)? [\[Scale questions\]](#)  
**Average score: 1.14**

Option	Subtotal	Proportion
Very dissatisfied	0	<div><div></div></div> 0%
2	7	<div><div></div></div> 1.48%
3	19	<div><div></div></div> 4.03%
4	80	<div><div></div></div> 16.95%
5	187	<div><div></div></div> 39.62%
6	144	<div><div></div></div> 30.51%
Very satisfied	29	<div><div></div></div> 6.14%
Invalid	6	<div><div></div></div> 1.27%
Total questionnaires	472	



32. In terms of thermal comfort, how do you feel now? [\[Scale questions\]](#)

Average score: 0.82

Option	Subtotal	Proportion
Cold	0	<div></div> 0%
Cool	8	<div></div> 1.69%
Slightly cool	14	<div></div> 2.97%
Neutral	151	<div></div> 31.99%
Slightly warm	192	<div></div> 40.68%
Warm	89	<div></div> 18.86%
Hot	15	<div></div> 3.18%
Invalid	3	<div></div> 0.64%
Total questionnaires	472	

33. Do you think the current indoor thermal environment is acceptable: [\[Scale questions\]](#)

Average score: 1.03

Option	Subtotal	Proportion
Clearly unacceptable	1	<div></div> 0.21%
2	4	<div></div> 0.85%
3	31	<div></div> 6.57%
4	94	<div></div> 19.92%
5	192	<div></div> 40.68%
6	103	<div></div> 21.82%
Clearly acceptable	41	<div></div> 8.69%
Invalid	6	<div></div> 1.27%
Total questionnaires	472	

34. You want the indoor temperature to become now [\[Scale questions\]](#)

Average score: 0.73

Option	Subtotal	Proportion
Warm more	2	<div></div> 0.42%
Remain the same	123	<div></div> 26.06%
Cool more	341	<div></div> 72.25%
Invalid	6	<div></div> 1.27%
Total questionnaires	472	

35. Your comfort evaluation of indoor thermal environment (taking temperature, humidity, wind sensation into consideration) [\[Scale questions\]](#)

Average score: 0.76

Option	Subtotal	Proportion
Be hard to bear	6	<div></div> 1.27%
Very uncomfortable	24	<div></div> 5.08%
Uncomfortable	118	<div></div> 25%
A little uncomfortable	249	<div></div> 52.75%

Comfortable	71	<div><div></div></div> 15.04%
Invalid	4	<div><div></div></div> 0.85%
Total questionnaires	468	

36. What measures are you using now to improve your comfort level: [\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Shade from the sun (avoid too much sun)	30	<div><div></div></div> 6.36%
Windows that can be switched on and off	272	<div><div></div></div> 57.63%
Room temperature controller	5	<div><div></div></div> 1.06%
Electric heater	12	<div><div></div></div> 2.54%
Humidifier	10	<div><div></div></div> 2.12%
Air conditioner	181	<div><div></div></div> 38.35%
Fan	411	<div><div></div></div> 87.08%
Increase or decrease in clothes	123	<div><div></div></div> 26.06%
The above are no	5	<div><div></div></div> 1.06%
Others:	7	<div><div></div></div> 1.48%
Invalid	6	<div><div></div></div> 1.27%
Total questionnaires	472	

37. Your assessment of the wind in the room: [\[Scale questions\]](#)  
**Average score: 1.06**

Option	Subtotal	Proportion
There is no wind	102	<div><div></div></div> 21.61%
There is a slight wind sensation	243	<div><div></div></div> 51.48%
There is a distinct wind sensation	109	<div><div></div></div> 23.09%
There is a strong wind feeling	11	<div><div></div></div> 2.33%
Invalid	7	<div><div></div></div> 1.48%
Total questionnaires	465	

38. Your assessment of the intensity of odors in the room: [\[Scale questions\]](#)  
**Average score: -0.57**

Option	Subtotal	Proportion
No odor	274	<div><div></div></div> 58.05%
Slight odor	124	<div><div></div></div> 26.27%
Medium odor	54	<div><div></div></div> 11.44%
A strong odor	9	<div><div></div></div> 1.91%
An unbearable odor	1	<div><div></div></div> 0.21%
Invalid	10	<div><div></div></div> 2.12%
Total questionnaires	462	

39. Your assessment of the light environment (brightness): [\[Scale questions\]](#)  
**Average score: 0.08**

Option	Subtotal	Proportion
Too dark	11	<div><div></div></div> 2.33%
Slightly dark	99	<div><div></div></div> 20.97%
Neutral	201	<div><div></div></div> 42.58%
Slightly bright	150	<div><div></div></div> 31.78%
Too bright	4	<div><div></div></div> 0.85%
Invalid	7	<div><div></div></div> 1.48%
Total questionnaires	465	

40. Regarding the indoor environment you are in, the environmental factors that you feel most affect your satisfaction, satisfaction and dissatisfaction are respectively: [\[Multiple choice questions\]](#)

The title \ options	Temperature	Humidity	Wind speed	Acoustic	Light	air quality	Others	Invalid
Most impact on overall satisfaction	279(59.11%)	166(35.17%)	157(33.26%)	184(38.98%)	240(50.85%)	215(45.55%)	19(4.03%)	79(16.74%)
The most satisfied	224(47.46%)	162(34.32%)	138(29.24%)	124(26.27%)	217(45.97%)	208(44.07%)	5(1.06%)	14(2.97%)
The most unsatisfied	98(20.76%)	84(17.8%)	77(16.31%)	203(43.01%)	118(25%)	57(12.08%)	33(6.99%)	32(6.78%)

41. Please mark your daily timetable in the form below. [\[Matrix text questions\]](#)

42. If you have a fan, a heater, an air conditioner, how to use it in summer and winter? If no, please skip this question. How would you open it? [\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never opening	15	<div><div></div></div> 3.18%
Always opening	50	<div><div></div></div> 10.59%
When entering the room	68	<div><div></div></div> 14.41%
When feeling hot/cold	373	<div><div></div></div> 79.03%
When there is a guest	168	<div><div></div></div> 35.59%
When going to bed	118	<div><div></div></div> 25%
At certain time	2	<div><div></div></div> 0.42%
Others	1	<div><div></div></div> 0.21%
Invalid	25	<div><div></div></div> 5.3%
Total questionnaires	472	

43. If you have a fan, a heater, an air conditioner, how to use it in summer and winter? If no, please skip this question. How would you close it? [\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never closing	7	<div><div></div></div> 1.48%
When leaving the room	93	<div><div></div></div> 19.7%
When leaving home	140	<div><div></div></div> 29.66%
When feeling hot/cold	353	<div><div></div></div> 74.79%
Before sleeping	120	<div><div></div></div> 25.42%
After getting up	106	<div><div></div></div> 22.46%

At certain time	4	<div><div></div></div> 0.85%
After opening for    hours	7	<div><div></div></div> 1.48%
Others	0	<div><div></div></div> 0%
Invalid	36	<div><div></div></div> 7.63%
Total questionnaires	472	

44. How do you operate electric cooling and heating equipment (fan, air conditioner, oil heater, electric heater, heater)? If no, please skip this question.  
[\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never opening	27	<div><div></div></div> 5.72%
Turn it on when entering the room and turn it off when leaving the room	109	<div><div></div></div> 23.09%
Turn it on when feeling hot/cold, turn it off when leaving the room	360	<div><div></div></div> 76.27%
Turn it on when you wake up and turn it off when you're dressed	89	<div><div></div></div> 18.86%
Others	2	<div><div></div></div> 0.42%
Invalid	60	<div><div></div></div> 12.71%
Total questionnaires	472	

45. Can windows of your building (living room/bedroom1, 2, 3) be opened?  
If yes, please answer this question-how do you open or close it in winter; if no, please skip this question.

How would you open it? [\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never opening	40	<div><div></div></div> 8.47%
Always opening	50	<div><div></div></div> 10.59%
When leaving home	52	<div><div></div></div> 11.02%
After getting up	51	<div><div></div></div> 10.81%
When entering the room	51	<div><div></div></div> 10.81%
When AC off	91	<div><div></div></div> 19.28%
When feeling hot	248	<div><div></div></div> 52.54%
When smelly or stuffy indoor	325	<div><div></div></div> 68.86%
When sunny or warm outdoor	253	<div><div></div></div> 53.6%
At certain time	2	<div><div></div></div> 0.42%
Others	2	<div><div></div></div> 0.42%
Invalid	18	<div><div></div></div> 3.81%
Total questionnaires	472	

46. Can windows of your building (living room/bedroom1, 2, 3) be opened?  
If yes, please answer this question-how do you open or close it in summer; if no, please skip this question.

How would you open it?  
[\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never opening	4	<div><div></div></div> 0.85%

Always opening	165	<div><div></div></div> 34.96%
When leaving home	39	<div><div></div></div> 8.26%
After getting up	48	<div><div></div></div> 10.17%
When entering the room	65	<div><div></div></div> 13.77%
When AC off	90	<div><div></div></div> 19.07%
When feeling hot	263	<div><div></div></div> 55.72%
When smelly or stuffy indoor	275	<div><div></div></div> 58.26%
When sunny or warm outdoor	174	<div><div></div></div> 36.86%
At certain time	1	<div><div></div></div> 0.21%
Others	1	<div><div></div></div> 0.21%
Invalid	16	<div><div></div></div> 3.39%
Total questionnaires	472	

47. Can windows of your building (living room/bedroom1, 2, 3) be opened?  
If yes, please answer this question-how do you open or close it in winter; if no, please skip this question.

How would you close it?  
[\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Never closing	16	<div><div></div></div> 3.39%
When leaving home	103	<div><div></div></div> 21.82%
Before sleeping	114	<div><div></div></div> 24.15%
When entering the room	86	<div><div></div></div> 18.22%
When AC on	164	<div><div></div></div> 34.75%
When feeling cold	288	<div><div></div></div> 61.02%
Bad outdoor environment (wind/rain/dust weather/noisy)	292	<div><div></div></div> 61.86%
At certain time	0	<div><div></div></div> 0%
After opening for    hours	3	<div><div></div></div> 0.64%
Others	1	<div><div></div></div> 0.21%
Invalid	16	<div><div></div></div> 3.39%
Total questionnaires	472	

48. When will you turning on lighting devices in living room and bedroom?

[\[Multiple choice questions\]](#)

Option	Subtotal	Proportion
Turning on once entering the room	104	<div><div></div></div> 22.03%
When it's too dark	419	<div><div></div></div> 88.77%
Others	1	<div><div></div></div> 0.21%
Invalid	17	<div><div></div></div> 3.6%
Total questionnaires	472	

49. When will you turning off lighting devices in living room and bedroom?

[Multiple choice questions]

Option	Subtotal	Proportion
When leaving room	259	<div><div></div></div> 54.87%
Before sleeping	349	<div><div></div></div> 73.94%
When bright during daytime	354	<div><div></div></div> 75%
When watching TV or a movie	61	<div><div></div></div> 12.92%
Others	2	<div><div></div></div> 0.42%
Invalid	13	<div><div></div></div> 2.75%
Total questionnaires	472	

End of this survey, thanks for your participation.