ENVIRONMENTAL ASSESSMENT

Note: Page numbers refer to the second edition of "Bygg ikapp handikapp", published by the Swedish Handicap Institute (1995).

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A. Outdoor environment	Α	B1	B2	C	D	E	F	G	Н	Ι	J	K	L	M	N	NOTES
General (pp. 37-42, 183-96)																
1. Narrow paths (less than 1.3 m).					3	3							3	3	1	May be marked if e.g. bicycles are in the way, but compare with A7 as well.
2. Irregular walking surface (includes irregular joins, sloping sections, etc.).		2	3		1	1		3					3	3		A2-A4: Note if these are single phenomena or repeatedly occurring.
3. Unstable walking surface (loose gravel, sand, clay, etc.).		2	3		3	3	2						3	4		
4. Path surfaces not level (cracks, holes deeper than 5 mm).		2	3		3	3	2						3	3		The measure refers to depth as well as width.
5. Steep gradients (more than 1:12. Does not include ramp at entrance – rate under B23).		2	3		2	2	3						3	3	1	
6. Routes with steps (alternative route with ramp that meets the standards is accepted).		2	3		3	3	3	1				1	3	4	1	
7. No tactile cues of abrupt level changes or other hazards (pp. 39–40).		2	3													May be marked if e.g. bicycles are in the way, but compare with A1 as well. Here it refers to "without warning", or "at random".
8. High kerbs (more than 40 mm).		1	1		3	3	3	1					3	4	2	
9. Kerb ramps with abrupt sides.		3	3		3	3		1					2	2		

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M		NOTES
10. Kerb ramps with too bevelled short sides (e.g. at pedestrian crossings or transition to footpath).		3	4													Refers to difficulty in identifying kerb edges.
11. Poorly drained paths and roadways.		2	2		3	2	1	2					3	3		
12. No handrails on steep gradients.		1	1		4	3	4						1		1	
13. No resting surfaces or too far between resting surfaces on slopes (more than 6 m intervals).					3	3	4						3	2	2	
14. Poor lighting along circulation paths (pp. 40, 42).	1	2		3	2			1					3	3	1	Note whether the assessment is performed in daylight or darkness. This item refers to main lighting; compare A15, which refers to "where you place your feet".
15. Poor illumination of walking surface (p. 40).		4														
16. Complicated/illogical routes to/from entrance.	2	1	3				1						1	1		
Parking 17. Narrow parking spaces (all narrower than 3.6 m – at least one space must have this dimension). Garage width less than 3.6 m (pp. 36–37).					1	1							4	4	3	
18. Parking space far from entrance (more than 25 m walking distance, see p. 35).	4				1	1	4						1	1		

	A	B1	B2	С	D	E	F	G	Н	I	J	K	L	M	N	NOTES
19. Passenger loading zones far from																Note whether there is a locked gate or other barrier.
entrance (more than 10 m, see p. 35).		3	3				4						1	1		
20. Inadequate shelter from weather in passenger unloading zone. See p. 35.					1	1	3						3	3		
21. Unstable walking surface in parking space (loose gravel, sand, clay, etc.).		1	1		3	3	3	4					3	3		
Items A22–A28 below are rated only for multi-family dwellings:																
22. No <u>marked</u> parking spaces for people with disabilities within 10 m of the entrance.	3							3					3	3		Compare to A18; this item refers to marked spaces only.
23. Need to cross vehicular traffic when moving to the entrance from the parking spaces for people with disabilities.	3	3	3		1	1							1	1		
Seating places																
24. No/too few seating places (should be located every 25 m the first 100 m from the entrance, thereafter at least every 100 m, see p. 41).					3	3	4						3		2	
25. Extremely low, high or narrow seating surfaces (height 0.5 m, see p. 41).					3	3	3					3	3	3	3	

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
26. Rough ground at seating places.					3	3	1						3	3		
27. Insufficient manoeuvring space at seating places (1.5 x 1.5 m, see pp. 25–29, 41).													3	4		
28. Landscape furniture placed in the path of travel.		3	3										3	3		
Other features 29. Refuse room/refuse bin can only be reached via steps or other difference in level (more than 25 mm. See pp. 153–54).		3	3		3	3		1					3	4		Note the placing and distance, and other specific circumstances.
30. Letterbox can only be reached via steps or other difference in level (more than 25 mm. See p. 151).		3	3		3	3		1					3	4		Note the placing and other specific circumstances.
31. Refuse bin and/or letterbox difficult to reach (e.g. not at 0.9–1.2 m above ground, or other problem. See pp. 151, 153–54).					3	2	1		3	3	4		3	4		Refers to the distance to the object's opening. Note if the problem refers to refuse bin or/and letterbox.
32. Insufficient manoeuvring space (less than 1.5 × 1.5 m) at refuse bin and/or letterbox.													3	4		
33. Overhanging objects along path of travel/passage etc. (less than 2.1 m above ground).	1	3	4													

B. Entrances	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
Refers to stairs, ramps, and lifts outdoors, in the immediate vicinity of the entrance, or in stairwells. Steps in the actual dwelling are rated under C. INDOOR ENVIRONMENT. Note that a sitting-out place is rated under a separate heading below. All dimensions = clearance.																Note whether there are several alternative entrances and if so which is/are used most frequently.
General (pp. 43-63)																
1. Narrow door openings (less than 0.85 m).													3	4	1	B1–B11 refer to all doors from entrance door to apartment door, including door to elevator.
2. High thresholds and/or steps at the entrance (more than 25 mm).		3	3		3	3		1					3	4		
3. Insufficient manoeuvring space at doors (clearance less than 1.5×1.5 m, outside and inside. 0.7 m at the opening side of the door at the main entrance, 0.5 m at apartment doors. See p. 60).													3	4	1	Note the difference between B3 and B5. Note if the surface is uneven, unstable, etc.
4. Door swing that obstructs use.		1	1										1	4	1	Refers to door leaves obtruding when opening/closing.
5. No level area in front of entrance doors (less than 1.5 × 1.5 m).													3	3		Note the difference between B3 and B5.
6. Heavy doors without automatic opening.					3	3	3		3		4		3	3	1	
7. Automatic opening on side-hung doors.	1	3	3													

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
8. Inappropriate design of glass sections (pp. 62, 175–76).	1	3	3										1	1		
9. Doors that do not stay in open position/close quickly (p. 62).	2	3	4		3	3	3						3	3	1	Note the difference between B9 and B10.
10. Doors that cannot be fastened in open position (locking device required).					3	2	3						3	3	1	
11. Complicated/illogical opening procedure.	4	1	3			3							1	1		Note if there is an entry phone, code lock, etc. and if so, their placing.
Stairs (pp. 51-53)																
12. Stairs the only route (no lift/ramp).		3	3		3	3	3				1		3	4		Note the difference of height from ground level to upper staircase level.
13. Stair treads with narrow depth or irregular depth (p. 52).	3	3	3		3	3	3						3		3	
14. Very high, very low and/or irregular heights of risers (p. 52).		3	3		3	3	3						3		3	
15. Projecting nosing/open-riser stairs (p. 52).		1	1										3			
16. No handrails (required on both sides, pp. 52, 174).	1	1	1		3	3	3						4			Note if a handrail is missing on one or both sides.

	Α	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
17. Handrails too short (must continue 0.3 m																The norm is considered met if one handrail
before/after the stairs without interruption at																continues at landing.
landing, pp. 52, 174).	1	1	1		1	1	1						2			
18. Handrails placed too high/low (higher/lower than 0.9 m, pp. 52, 174).					1	1	1						1			Measure at the centre of the stair tread.
19. No tactile cues to stairway in circulation path (pp. 52–53).		3	4													
20. Visual environment that distracts stairway user's attention from the stairs.	1	3														
21. Visual pattern on the surface of stair treads camouflages edges of treads.	1	3														Refers to "lack of visual pattern" as well, if this constitutes a problem.
22. Poor illumination of walking area and/or handrails (pp. 45, 48–49, 54).		4														Note also whether there is sufficient time for before automatic lighting goes off.
Damas																
Ramps 23. Steep gradients (more than 1:12).					3	3	3						3	3		
24. Long runs without level resting surface (more than 6 m, pp. 49–50).					3	3	3						3	3		
25. Ramp surface involves risk of slipping.					3	3							3	3		
26. No handrails (required on both sides, without interruption, pp. 49–50).					3	3	3						3	3		

	A	B1	B2	С	D	E	F	G	Н	I	J	K	L	M	N	NOTES
27. Protection against slipping off sides wholly or partly lacking (pp. 49–50).		3	3										3	3		
<u>Lifts (pp. 54-59)</u>																
28. Lift does not stop at same level as building floor.		3	3		3	3		3					3	3		Note whether there is a lift or not. The width of the door to the lift is marked at B1.
29. Wide gap between the lift and the building floor (more than 3 cm).	1	3	3		2	3		3					3	3		
30. Heavy doors without automatic opening.					3	3	3		3		4		3	3	1	
31. Automatic opening on swing doors.	1	3	3													
32. Doors that do not stay in open position/close quickly.	2	3	4		3	3	3						3	3	1	
33. Doors that cannot be fastened in open position (locking device required).					3	2	3						3	3	1	
34. Lift stops abruptly.					1	1							1			
35. No handrail in lift.					1	1	1						1			
36. No seat in lift.					3	1	2						3			
37. Cramped lift (less than 1.1 × 1.4 m, p. 55).													1	3	3	

	Α	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
38. Illogical design of controls and operable hardware (pp. 56-57).	3	3	3													Note if controls have to be pressed continuously when moving.
39. Controls and operable hardware placed too high/low (pp. 55–56).								2	3	1		1	2	4	1	
40. Design of controls requires good hand function (pp. 56–57).										3	4					
41. No audio signal when the lift arrives.	1	3	4				3						1	1	1	
42. No visual signal when the lift arrives.				3			3						1	1	1	
43. Lift signals do not indicate the direction of the lift.	3	3	4	3			3						1	1	1	
Sitting-out place/balcony																
44. No sitting-out place/balcony.		1	1		1	1	1					1	2	2	1	
45. Sitting-out place/balcony too narrow (width less than 1.5 m, p. 145).													3	4		Note whether sitting-out place/balcony is used as an entrance.
46. Narrow door (clearance less than 0.85 m, p. 146).													3	4	1	
47. High threshold/level difference/step (more than 25 mm, p. 145).		3	3		3	3		1					3	4		

	A	B1	B2	C	D	E	F	G	Н	Ι	J	K	L	M	Ν	NOTES
48. Wide gaps in the floor (more than 5 mm,																
p. 145).													3	3		
49. Steep transition from one level to another																
(gradient more than 1:12, p. 145).					3	3	3						3	3		

C. Indoor environment	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
General (p. 128)																Note that the indoor assessment is linked to "necessary housing functions" (in particular stairs, door widths).
																8)
1. Stairs/thresholds/differences in level																
between rooms/floor spaces (more than 25 mm).		3	3		3	3		1					3	4		
2. Complicated/illogical circulation routes (p. 129).	3	3	3				4						1	1		
3. Narrow passages/corridors in relation to																Note the difference between C3 and C9.
fixtures/design of building (less than 1.3 m,																
p. 131).													3	4	1	
1 Namery de ana (aleganes a lega them 0.80 m																
4. Narrow doors (clearance less than 0.80 m, pp. 146–47).													4	4	1	
5. Slippery walking surface (hygiene rooms		3	3		3	3	1						3		1	
are rated separately) (pp. 96-97).		3	3		3	3	1						3		1	
6. High-pile/loose-weave/soft floor covering																
(pp. 96–97).							1						1	3		
7. Loose small mats.					3	2	1						2	3		
8. Loose cables etc. on the floor.					3	2	1						2	3		
9. Insufficient manoeuvring areas in relation																Note the difference between C3 and C9.
to movable furnishings (pp. 26-27)		2	3		3	3							3	4	1	

	A	B1	B2	C	D	Е	F	G	Н	I	J	K	L	M	N	NOTES
10. Insufficient manoeuvring areas where																
turning is necessary (less than 1.3×1.3 m,																
pp. 26–27).						2							3	4	1	
11. Inappropriate design of ward-		_	_													
robes/clothes cupboards (pp. 144-45).		1	1						3				2	3		
<u>Stairs</u>																
12. Stairs to upstairs with necessary dwelling																C12–C14 refer to stairs between floors = lack of lift. More
functions.		3	3		3	3	3				1		3	4	1	than one item can be marked.
						,										
13. Stairs to basement with necessary																
dwelling functions.		3	3		3	3	3				1		3	4	1	
-																
14. There are stairs, but all necessary dwel-																
ling functions are located on ground floor.		1	1		1	1	1				1		1	1	1	
15. Stair treads with narrow depth or irregu-																
lar depth (p. 52).	3	3	3		3	3	3						3		3	
16 17 1 1 1 1 1 1 1																
16. Very high, very low and/or irregular		2	2		2	2	2						2		2	
heights of risers (p. 52).		3	3		3	3	3						3		3	
17. Projecting nosing/open stairs without																
risers (p. 52).		1	1										3			
115C15 (p. 52).	<u> </u>	1						<u> </u>	<u> </u>		<u> </u>	<u> </u>	J	<u> </u>		

	Α	B1	B2	C	D	Ε	F	G	Н	I	J	K	L	M	N	NOTES
18. No handrails (required on both sides, pp. 52, 174).	1	1	1		3	3	3						4			Note if a handrail is missing on one or both sides.
19. Handrails too short (must continue 0.3 m before/after the stairs without interruption at landing, pp. 52, 174).	1	1	1		2	2	2						3			
20. Handrails placed too high/low (higher/lower than 0.9 m, pp. 52, 174).					3	3	3						4			Measure at the centre of the stair tread.
21. No tactile cues to stairway in circulation path (pp. 52–53).		3	4													
22. Visual environment that distracts stairway user's attention from the stairs.		3														
23. Visual pattern on the surface of stair treads camouflages edges of treads.	1	3														Refers to "lack of visual pattern" as well, if this constitutes a problem.
24. Poor illumination of walking area and/or handrails (pp. 45, 48–49, 54).		4														

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
Kitchen, laundry room, utility kitchen (pp. 131–35, 148)																
Refers to furnishings and equipment etc. Accessibility for reaching/entering laundry room is rated generally under OUTDOOR ENVIRONMENT, and at C99.																
25. Insufficient manoeuvring areas around white goods/storage units (service area less than 1.2 m in front). Insufficient area because of furnishings is rated under C9.		3	3		3	3	1		3				3	4		Even more details are important when rating these areas. Note e.g. if hobs are separate from the oven, etc.
		O			0		_									
26. Wall-mounted cupboards and shelves placed extremely high (lowest shelf more																Note if there are units that can be vertically adjusted.
than 0.5 m above the working surface).		3	3		4	3	3	2	4	3	4	3	3	4	3	
27. No surface at a height suitable for sitting work (0.85 m or higher is only suitable for standing; lower working height is required for sitting). Leg clearance is rated at C29.					1		1						3	3	1	
28. Low working surfaces (i.e. 0.84 m or lower).								3				3			1	
29. No working surfaces with leg room (clearance less than 0.65 m height, depth 0.6 m, width 0.8 m, p. 134).					2		2						2	3	2	

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
30. Working surfaces too deep (more than 0.6										4			•	•		
m).									3	1	4		3	3		
31. Shelves too deep (i.e. more than 0.3 m). Deeper shelves require pullout shelves/turntable units. <i>Mark this if more than half of the floor and full-height cupboards are too deep and lack these facilities.</i>									4		4	3	3	3	1	
32. Hobs with ordinary rings.									3	2						Includes gas stove, etc.
33. Ceramic hobs or the like.	1	3	4													
34. Door swings (inner doors) which impede accessibility to storage units.								1			4	4	1	4		
35. Insufficient/inappropriately designed/placed lighting of working surfaces, sink top, cooker and storage areas (p. 134).		3														
For rating controls/operable hardware see pp. 111–15, 178. The respective item is marked if one or more permanent functions in the kitchen/utility kitchen/laundry room cause problems.																A micro-wave oven that is not built-in should not be assessed, but note if its placing or controls are difficult.
36. Illogical controls.	4	2	3													
37. High force required to activate controls (p. 113).							3			1			3		1	

	A	B1	B2	C	D	E	F	G	Н	Ι	J	K	L	M	N	NOTES
38. Ultra-sensitive activation (p. 113).	3	3	3			3				1	1					
39. Use requires intact fine motor control (pp. 112–13).	1					3				1			1			Refers to fine motor, complex "manipulation", compare C47.
40. Very small controls (pp. 113-14).		2	2							3	2					
41. Very large controls (pp. 113-14).										2	3					
42. Turning motion of wrist required.										2	4					
43. Complex manoeuvres (more than one operation/movement) and good precision required (p. 113).	2		1			2				1	1		1			
44. Use requires two hands.										1	4		3			
45. Use requires hands.										3	4		3			
46. Use requires feet.					2								1	4		
47. Use requires fingers (i.e. isolated grip, e.g. pinch and lateral grip).										2	4					
48. More than half of apparatus/controls in very high/inaccessible position (> 1.2 m above the floor).								2	3	1			2	4	1	Refers to electric sockets/switches, handles of cupboards and drawers, etc.
49. More than half of apparatus/controls in very low position (< 0.7 m above the floor).												1	1		1	Refers to electric sockets/switches, handles of cupboards and drawers, etc.

	Α	B1	B2	С	D	Е	F	G	Н	I	J	K	L	M	N	NOTES
Hygiene area (pp. 64-70)																Manoeuvring space is to be assessed at C9 and/or C10. For planning measures: Note measurements here.
50. No place to sit in shower/bath.					2							3	3	3	1	planning measures: Note measurements here.
51. No grab bars at shower/bath and/or toilet.		1	1		4	4	4					4	4	4	1	
52. Grab bars difficult to reach (does not include height but e.g. out-of-the-way or otherwise difficult placing).					1	1	1		3			1	1	1		Note the difference between C52 and C55.
53. Grab bars at high position (p. 67).														1		
54. Grab bars at low position (p. 67).													1			
55. Grab bars inadequately positioned (p. 67).					1		2					2	1	1		Refers to placing negatively affecting raising ability, e.g. vertical placing.
56. Grab bars not designed for easy grasp or to conform to hand size (p. 67).						1			1	4			1	1		
57. Placing of bars obstructs the use of the equipment or movement around it.													4	4	1	
Controls/operable hardware in hygiene areas refers to permanent functions, e.g. taps, handles of bathroom cupboards etc. (pp. 111–15, 178). Washing machine/tumbler drier placed in hygiene area is rated under "laundry room".																Note if there are any assistive devices, e.g. special tap handles.
58. Illogical controls.	4	2	3													

	A	B1	B2	С	D	E	F	G	Н	Ι	J	K	L	M	N	NOTES
59. High force required to activate controls (p. 113)							3			1			3		1	
60. Ultra-sensitive activation (p. 113).	3	3	3			3				1	1					
61. Use requires intact fine motor control (pp. 112–13).	1					3				1			1			Refers to fine motor, complex "manipulation", compare C69.
62. Very small controls (pp. 113–14).		2	2							3	2					
63. Very large controls (pp. 113-14).										2	3					
64. Turning motion of wrist required.										2	4					
65. Complex manoeuvres (more than one operation/movement) and good precision required (p. 113).	2		1			2				1	1		1			
66. Use requires two hands.										1	4		3			
67. Use requires hands.										3	4		3			
68. Use requires feet.					2								1	4		
69. Use requires fingers (i.e. isolated grip, e.g. pinch and lateral grip).										2	4					
70. More than half of apparatus/controls in very high/inaccessible position (more than 1.2 m above the floor).								2	3	1			2	4	1	

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
71. More than half of apparatus/controls in very low position (less than 0.7 m above the floor).												1	1		1	
72. Wash-basin placed at a height for use only when standing (top edge 0.81 m above the floor or higher).							3							3		
73. Toilet with standard height (0.41 m incl. seat) or lower.												3	3	1		Note whether the toilet is mounted to the wall.
74. Elevated toilet (0.42 m incl. seat) or higher.														1	1	Note the seat height of the WC.
75. Pipes, water traps etc. causing an obstruction under the wash-basin (p. 69).														3		
76. Insufficient leg room under wash-basin (refers to clearance depth to the wall less than 0.6 m, clearance width less than 0.8 m, and the design of the wash-basin).														3		Refers to clear space; C75 can thus be present together with C76.
77. Mirror placed at a height for use only when standing (lower edge more than 0.9 m above the floor, p. 69).							2							3		
78. Toilet roll holder in inaccessible position (more than 0.4 m from toilet, other height than approx. 0.8 m above the floor, placed on the wall behind toilet, etc., p. 70).			1			1		1	2	1					1	

	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
79. Storage cupboards, towel hooks, etc. inaccessibly placed (recommended height 0.9–1.2 m above the floor, p. 70).			1		1	1		1	2					3		
80. Shower stall with kerb/level difference more than 25 mm.					1							3	3	3		Note the size of the shower stall/space, water drainage, etc.
81. Bathtub instead of shower stall/space.												2	3	4	1	Note if the design of the tub is in any way problematic.
82. Slippery floor surface (pp. 70, 96–97).		3	3		3	3	1						3		1	
Other controls and operable hardware Refers to window and door mountings, locks, switches, and other permanent functions. See the glossary in the manual. Kitchen and hygiene area are assessed separately. 83. Illogical controls.	4	2	3													
84. High force required to activate controls (p. 113).							3			1			3		1	
85. Ultra-sensitive activation (p. 113).	3	3	3			3				1	1					
86. Use requires intact fine motor control (pp. 112–13)	1					3				1			1			Refers to fine motor, complex "manipulation", compare C94.
87. Very small controls (pp. 113–14).		2	2							3	2					

	Α	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
88. Very large controls (pp. 113-14).										2	3					
89. Turning motion of wrist required.										2	4					E.g. patent lock knob.
90. Complex manoeuvres (more than one operation/movement) and good precision required (p. 113).	2		1			2				1	1		1			
91. Use requires two hands.										1	4		3			
92. Use requires hands.										3	4		3			
93. Use requires feet.					2								1	4		
94. Use requires fingers (i.e. isolated grip, e.g. pinch and lateral grip).										2	4					E.g. patent lock knob.
95. More than half of apparatus/controls in very high/inaccessible position (more than 1.2 m above the floor).								2	3	1			2	4	1	
96. More than half of apparatus/controls in very low position (less than 0.7 m above the floor).												1	1		1	Also applies to wall sockets.

	Α	B1	B2	C	D	Ε	F	G	Н	Ι	J	K	L	M	N	NOTES
Supplementary housing facilities (pp. 148-50)																
Accessibility via footpaths etc. outdoors is rated under OUTDOOR ENVIRONMENT. A whole indoor flight of stairs is rated at C12–24. Record further barriers to routes indoors under NOTES.																Note whether the route is so long that it is an intrinsic barrier, and if it is indoors or outdoors.
97. Storage areas can only be reached via stairs/threshold or other difference in level. (more than 25 mm)		3	3		3	3		1					3	4		
98. Inappropriate design of store (includes design of door, pp. 149–50).		1							2		1		3	3		
99. Laundry room can only be reached via stairs/threshold or other difference in level (more than 25 mm).		3	3		3	3		1					3	4		
100. Inappropriate design of door to laundry room (clearance 0.85 m, heaviness, etc.). Otherwise equipment is rated under C25–49.					1		1		2		1		3	4	1	

D. Communication	A	B1	B2	C	D	E	F	G	Н	I	J	K	L	M	N	NOTES
1. No telephone with amplified sound.				4												
1. No telephone with amplified sound.				4												
The following environmental barriers (pp. 100-																
104) are rated only for multi-family dwellings.																
Note whether the barriers are indoors and/or out-																
doors, and any other more detailed information.																
2. Illanian I mandring a fairm	4	2														Note if markings/signs are LACKING.
2. Illogical markings/signs.	4	3														Those if markings/signs are EMERING.
3. Abstract design of markings/signs.																
	4	3	3													
4. Markings/signs poorly exposed/																
illuminated/placed.	3	3	3					3						1	1	
5. Small letters/numbers on signs.	1	3														
6. No tactile cues on signs, etc.		1	4													