

Table 1) the score of the indicators and the criteria of the indigenous houses according to the experts' scores

Classification of the indicators and patterns	Criteria	Score
Avoid inefficacy(maximum score:20)		
Homogeneity with the environment	1. Using indigenous materials	1
	2. Designing and implementation using the least stuff	1
Logic and beauty	3. Response to the function	5
	4. Being purposeful	4
Simplicity	5. Avoid the waste of space	3
	6. Minimum decoration	5
	7. Brightness and clearance	1
Confidentiality (maximum score:62)		
Introversion	8. Lack of window to outside	4
	9. The yard surrounded by the rooms	3
	10. Lack of self-glorification	1
Privacy and security	11. Not using the windows in the first floor	5
	12. Sense of being surrounded in the yard	3
	13. Use of door knocker	2
	14. Reduction of the interior part visibility	5
Spatial proportion	15. Smaller personal rooms	1
	16. Reduction in the height of the space	4
	17. High height of the royal salon (Shahneshin) in the size of two floors	1
	18. Taller extrinsic walls	4
4. location	19. Loyal space in the line with the yard	1
	20. Use of fewer windows in private places	3
	21. The space partitioning in various floors	4
	22. Entrance, bathroom, and private space (at the corner of the plan)	3
5. Zoning	23. Entrance door and the alley level difference	1
	24. Using the connecting corridors, yard, and porch	4
	25. Space separation to private and public space	4
6. Hierarchy	26. Obstacles for the direct vision from outside	5
	27. From the whole to the parts	4
Introversion (maximum score:23)		
1.Hierarchy	28. Spatial patterns (open, semi-open, and close	3
2. Privacy	29. Lack of windows to outside	4
	30. The yard surrounded by rooms	5
	31. Using opening higher than the level of vision	2
3. physical unity	32. central private yard	5

4. reduction of the space attractiveness	33. locating the Panjdari (a large main hall) parallel to each other	1
	34. simple materials	1
	35. making space longer toward the royal space	2
Holism and unity (maximum score: 33)		
1. multifunctionality of space and components (flexibility)	36. increase and decrease in the space according to the building's area)	5
	37. multifunctional use of the space	4
2. attention to social equity	38. use of sash windows	1
	39. the size and height of the room and door according to their function in rooms, sitting rooms, Panjdari, and Sedari	5
	40. shading the yard using small partitions in the façade	1
	41. proper placement of the building's components	4
	42. enjoy the benefits of central yard	3
	43. the geometry	3
	44. the façade and building volume: unity in façade and body	4
45. building's body balance	3	
Populism (Maximum score: 60)		
1. justice and social equity	46. Neutralize visual forces in the façade	1
	47. Central hall in the façade	1
2. maintenance and improvement of the neighbors' relationships	48. the building homogeneity with the environment (façade and plan)	3
	49. use of similar materials	3
3. impinge on other people's rights	50. doors not facing each other	
	51. the entrance with distance from the passage and creating a resting place in the way	4
4. pay more attention to kinship	52. a corridor for greeting, some seats in the porch	4
	53. territorialism, space division according to the hierarchy	5
5. pay attention to the human needs	54. proportions	5
	55. using wooden grids to double the roof	3
	56. control sound permeability	5
6. social and cultural factors	57. separation of humid places from others	3
	58. separation of bathroom from other spaces	4
	59. separation of the guests' hall from other spaces	4
7. functional decorations	60. using shelves and niches to lighten the building	1
	61. rhythm in the façade	3
	62. use of knotting and	3

	geometric shapes in designing the space	
	63. use of Karbandi (an Iranian structure) in false ceiling	4
Self-sufficiency (maximum score: 18)		
1. unpretentiousness	64. simple forms and shapes	
2. maximum co-existence with the environment	65. using local and natural material (brick and brick columns)	5
	66. using rhythmic geometry in the building	1
3. folk and popular	67. proper and homogenous height	1
4. the priority of the spiritually over the material things	68. simple structures and physic	3
5. using the available technology	69. arch	5
6. flexibility	70. the ability to change the spaces and their size	1
the relationship with the nature (maximum score:15)		
1. mass pattern and outdoor	71. yard (internal and external)	4
	72. summer and winter space	3
	73. yard on one side	3
2. buildings' aspect	74. central yard: pool, yard level difference, symmetrical flower bed, stone bench, and etc.	5
Conceptual (maximum score: 27)		
1. relationship with the nature	75. shapes originated from numbers and geometry	5
	76. natural materials	1
	77. Natural beauty	1
	78. Use of color	4
	79. Use of natural light	2
2. Quality-oriented	80. Interior façade symmetry	1
	81. Yard	2
	82. pool in the middle of the yard	3
3. the relationship between space and facade	83. use if wind-catcher to determine the qibla	3
4. cognitive identity	84. cultural symbol, traditional patterns	5
Continuity and evolution (maximum score: 22)		
1. meaningfulness	85. cognitive identity	4
	86. understanding the concepts	5
2. hierarchy	87. Spatial continuity	3
3. Relationship between the space and appearance	88. Orientation: navigation	4
	89. Mass pattern and outdoors	3
	90. Spatial arrangement	3

Table 2) the scores sum and mean in 9 target groups

Pattern classes	Maximum score	Ahmadiyan house	Barati house	Mousavi house (Parishani)	Salari house	Zarif house	Bani Hashemi house	Davari house	Scores' average
Conceptual Relationship with the environment	20	11	10	13	11	13	12	9	11.29
Populism	62	32	39	45	36	42	48	35	39.57
Introversion	23	13	14	17	8	15	19	11	13.86
Confidentially	33	18	23	25	20	21	27	17	21.57
Holism and unity	60	35	39	50	51	44	46	32	42.43
Continuity and evolution	15	7	8	10	4	12	11	7	8.43
Self-sufficiency	27	10	13	14	15	11	12	10	12.14
Avoid inefficacy	22	9	12	14	10	16	13	8	11.71
Total	18	10	12	14	13	11	10	9	11.29
	280	145	170	202	168	185	198	138	172.29

Table 4) weight Matrix of the options and criterion

Pattern factors	Davari house	Bani Hashemi house	Zarif house	Salari house	Mousavi (Parishani) house	Barati house	Ahmadiyan house
Conceptual Relationship with the environment	0.0420	0.0516	0.0596	0.0696	0.0295	0.0223	0.1181
Populism	0.2806	0.1368	0.1172	0.1029	0.0827	0.1192	0.0759
Introversion	0.0818	0.2782	0.0596	0.0249	0.1057	0.0954	0.1865
Confidentially	0.1617	0.2330	0.0439	0.1740	0.1570	0.2809	0.1181
Holism and unity	0.2350	0.1430	0.1803	0.2715	0.2524	0.1476	0.2725
Continuity and evolution	0.0558	0.0813	0.3151	0.0132	0.0490	0.0337	0.0396
Self-sufficiency	0.0192	0.0131	0.0133	0.0766	0.0106	0.0147	0.0150
Avoid inefficacy	0.0150	0.0391	0.1803	0.0400	0.0252	0.0502	0.0225
	0.1084	0.0234	0.0302	0.2259	0.2784	0.2355	0.1512

Table 5) the final weight of the criterion in comparison to the target

Criterion	Final weight
Conceptual	0.0461
Relationship with the environment	0.1104
Populism	0.1362
Introversion	0.1671
Confidentially	0.2048
Holism and unity	0.0998
Continuity and evolution	0.0175
Self- sufficiency	0.0591
Avoid inefficacy	0.1584