

Appendix 3. The results from PCA.

Barcelona

Category	Scale	Synthesized indicators of urban form characters				
		Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5
Dimension	Residential building	-0.541	0.102	-0.115	0.207	0.156
Shape	Residential building	0.029	0.011	-0.290	0.726	0.030
Intensity	Residential building	0.900	0.171	-0.114	0.038	0.027
Spatial distribution	Residential building	-0.166	-0.147	0.290	0.597	-0.111
Connectivity	Residential building	0.769	-0.020	-0.304	-0.205	-0.050
Dimension	Street network	-0.022	0.138	-0.624	0.095	-0.100
Shape	Street network	0.002	0.099	0.164	-0.094	-0.754
Spatial distribution	Street network	0.377	0.619	0.088	-0.013	0.171
Intensity	Street network	-0.003	0.093	0.194	-0.142	0.581
Connectivity	Street network	-0.045	0.059	0.598	0.037	-0.102
Dimension	Urban block	0.015	-0.750	0.164	0.156	0.029
Shape	Urban block	0.427	0.286	0.609	-0.024	0.128
Spatial distribution	Urban block	0.658	0.086	0.259	0.070	0.117
Intensity	Urban block	0.922	0.148	0.089	0.046	0.038
Connectivity	Urban block	-0.019	-0.838	-0.126	-0.053	0.073

Halle

Category	Scale	Synthesized indicators of urban form characters			
		Indicator 1	Indicator 2	Indicator 3	Indicator 4
Dimension	Residential building	-0.024	-0.046	-0.690	0.261
Shape	Residential building	-0.198	-0.016	0.774	-0.025
Intensity	Residential building	0.757	0.339	0.231	0.229
Spatial distribution	Residential building	-0.512	0.112	0.064	0.058
Connectivity	Residential building	0.782	-0.022	-0.083	0.059
Dimension	Street network	0.249	0.371	0.118	-0.615
Shape	Street network	-0.099	0.218	0.147	-0.002
Spatial distribution	Street network	0.334	0.581	0.064	0.454
Intensity	Street network	0.375	0.233	-0.109	0.715
Connectivity	Street network	-0.147	0.160	0.103	0.366
Dimension	Urban block	-0.091	-0.790	0.155	-0.108
Shape	Urban block	0.316	0.165	-0.058	0.613
Spatial distribution	Urban block	0.274	-0.117	0.620	0.317
Intensity	Urban block	0.643	0.324	0.583	0.194
Connectivity	Urban block	0.017	-0.866	-0.002	-0.092

Lodz

Category	Scale	Synthesized indicators of urban form characters				
		Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5
Dimension	Residential building	0.176	-0.323	0.713	-0.008	-0.140
Shape	Residential building	-0.261	0.416	0.188	-0.192	0.506
Intensity	Residential building	0.498	0.695	0.009	0.109	-0.063
Spatial distribution	Residential building	-0.153	-0.541	0.001	-0.055	0.231
Connectivity	Residential building	0.009	0.858	0.000	0.098	0.030
Dimension	Street network	0.219	-0.102	-0.765	0.002	-0.061
Shape	Street network	0.198	-0.072	-0.292	0.088	0.464
Spatial distribution	Street network	0.778	0.121	0.017	-0.119	0.114
Intensity	Street network	0.438	0.199	0.756	-0.044	-0.051
Connectivity	Street network	0.126	-0.178	0.012	0.081	0.681
Dimension	Urban block	-0.665	-0.148	-0.051	0.304	-0.068
Shape	Urban block	0.637	0.056	0.134	0.018	-0.080
Spatial distribution	Urban block	-0.151	0.055	-0.030	0.874	0.098
Intensity	Urban block	-0.213	0.152	-0.016	0.879	-0.004
Connectivity	Urban block	-0.630	0.015	0.150	0.237	-0.244

Oslo

Category	Scale	Synthesized indicators of urban form characters				
		Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5
Dimension	Residential building	-0.257	0.388	-0.190	0.001	-0.562
Shape	Residential building	-0.039	0.039	-0.016	-0.039	0.692
Intensity	Residential building	0.809	0.333	0.249	-0.164	-0.148
Spatial distribution	Residential building	-0.223	-0.026	0.028	0.625	-0.065
Connectivity	Residential building	0.829	-0.114	-0.193	-0.079	-0.053
Dimension	Street network	0.144	-0.155	0.770	0.126	-0.066
Shape	Street network	-0.010	-0.039	0.054	0.396	0.027
Spatial distribution	Street network	0.260	0.703	0.291	-0.129	-0.233
Intensity	Street network	0.143	0.842	-0.268	-0.132	-0.096
Connectivity	Street network	-0.053	0.375	0.245	0.346	0.170
Dimension	Urban block	0.067	-0.259	-0.261	0.681	-0.068
Shape	Urban block	0.093	0.709	0.115	-0.142	0.096
Spatial distribution	Urban block	0.527	0.321	-0.159	0.130	0.369
Intensity	Urban block	0.846	0.166	0.278	-0.128	0.213
Connectivity	Urban block	0.066	-0.307	-0.608	0.132	-0.133

Stockholm

Category	Scale	Synthesized indicators of urban form characters				
		Indicator 1	Indicator 2	Indicator 3	Indicator 4	Indicator 5
Dimension	Residential building	-0.292	0.226	0.038	-0.679	-0.128
Shape	Residential building	0.040	0.064	-0.566	-0.110	0.022
Intensity	Residential building	0.768	0.296	0.180	-0.069	-0.101
Spatial distribution	Residential building	-0.250	-0.086	-0.043	0.039	0.625
Connectivity	Residential building	0.732	-0.030	0.004	-0.137	-0.198
Dimension	Street network	-0.011	0.198	0.043	0.565	-0.468
Shape	Street network	0.072	0.178	0.033	0.108	0.593
Spatial distribution	Street network	0.182	0.655	0.087	0.079	0.106
Intensity	Street network	0.261	0.267	0.602	-0.234	-0.129
Connectivity	Street network	-0.119	0.206	0.062	0.441	0.160
Dimension	Urban block	-0.058	-0.739	-0.115	-0.049	0.124
Shape	Urban block	0.195	0.005	0.826	0.025	0.111
Spatial distribution	Urban block	0.796	0.023	0.079	0.088	0.092
Intensity	Urban block	0.873	0.174	0.094	0.230	-0.025
Connectivity	Urban block	-0.064	-0.695	0.407	0.030	-0.139