

(1) Beijing Forestry University Independent Intellectual Property Experimental Software

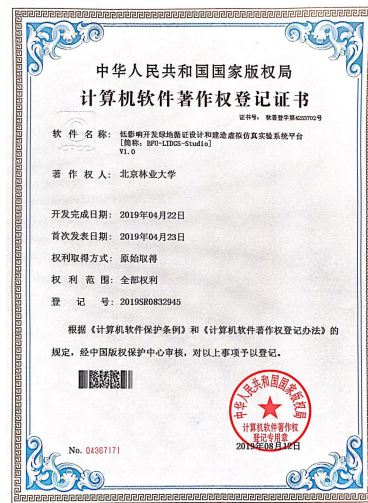


Fig.5 Software copyright certificate

The computer software copyright of the Virtual Simulation Experimental System Platform of Evidence-based Design and Construction of Green Space Based on Low Impact Development [abbreviated as BFU-LIDGS-Studio] v1.0 has been applied for. (See Fig. 5 for the software copyright certificate.)

The software applies 3D simulation technology to construct real scenes of low-impact green space (galleries and rainwater gardens), presenting the selection of gallery materials, building methods, water storage patterns of rainwater gardens and other activities. The main line of the experiment is gallery construction and stormwater simulation, guiding students to understand the construction process of low-impact green space (galleries and rainwater gardens) correctly.

(2) Virtual Simulation Experiment Model

The main equipment involved in this experiment are modern gallery, classical gallery, steel frame, and models of *Rudbeckia hirta* , *Platycodon grandiflorus* , *Gaura lindheimeri* , *Pterocarya stenoptera* , *Ulmus pumila* , *Prunus cerasifera f. atropurpurea* . (see Fig. 6– 7, Table 1)

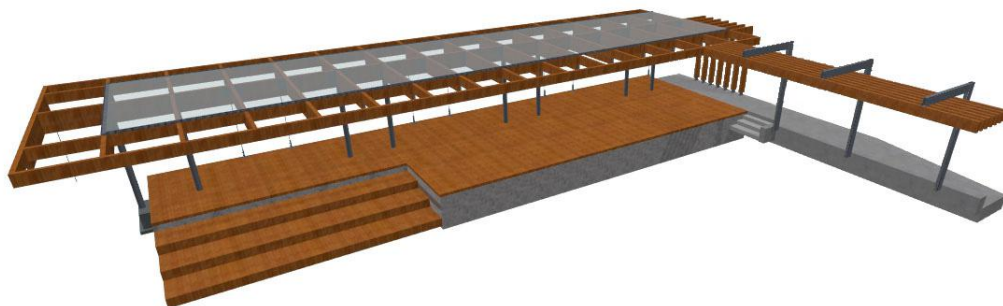


Fig. 6 Modern Gallery Model

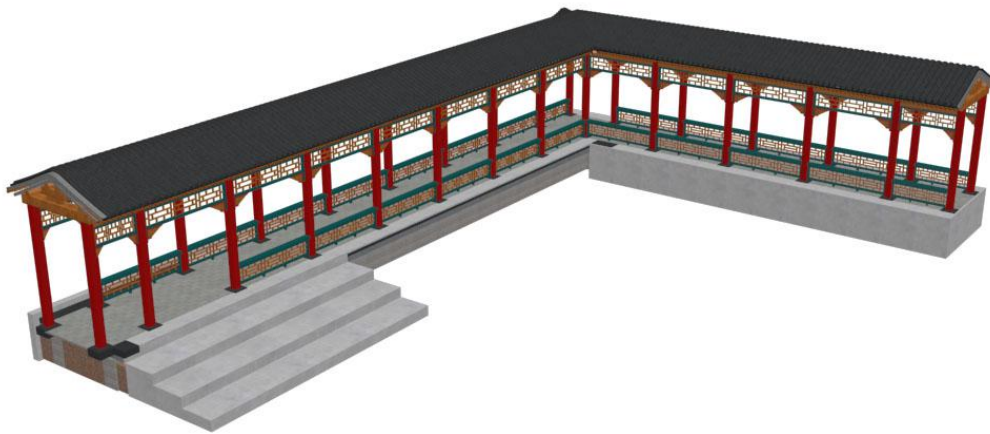


Fig. 7 Modern Gallery Model

Table 1 Plant Models and Landscape Performance Data

Plant Name	Model ictures	Energy Saving Amount	SO ₂ Absorption Amount (g/year)	Fluoride Absorption Amount (g/year)	Dust Retention Amount (kg/year)	Carbon Sequestrat ion Amount (b/year)
<i>Picea asperata</i>		25.00	134.75	0.31	20.75	108
<i>Pinus armandii</i>		23.00	264.11	0.61	40.67	98
<i>Ulmus pumila</i>		38.00	179.52	9.42	20.47	140
Plant Name	odel cture s	Energy Saving Amount	SO ₂ Absorption Amount (g/year)	Fluoride Absorption Amount (g/year)	Dust Retention Amount (kg/year)	Carbon Sequestrat ion Amount (b/year)

<i>Catalpa bungei</i>		26.00	79.79	4.19	9.10	146
<i>Pterocarya stenoptera</i>		56.00	221.63	11.63	25.28	220
<i>Koelreuteria paniculata</i>		24.00	108.60	5.70	12.38	146
<i>Prunus cerasifera</i> f. <i>atropurpurea</i>		25.00	108.60	5.70	12.38	146
<i>Prunus × blireana</i> cv. <i>Meiren</i>		18.00	79.79	4.19	9.10	130
<i>Armeniaca sibirica</i>		32.00	79.79	4.19	9.10	145
<i>Brachycome iberdifolia</i>		5	6.30	0.54	0.1	18
<i>Lythrum salicaria</i>		6	8.10	0.68	0.1	22
Plant Name	Model Pictures	Energy Saving Amount	SO ₂ Absorption Amount (g/year)	Fluoride Absorption Amount (g/year)	Dust Retention Amount (kg/year)	Carbon Sequestration Amount

(b/year)						
<i>Salvia farinacea</i>		8	8.10	0.77	0.3	32
<i>Papaver rhoeas</i>		5	8.10	0.63	0.7	20
<i>Salvia japonica</i>		8	7.20	0.72	0.6	16
<i>Platycodon grandiflorus</i>		10	9.00	0.90	0.8	38
<i>Rudbeckia hirta</i>		6	7.20	0.63	0.7	22
<i>Verbena bonariensis</i>		8	8.10	0.77	0.6	30
<i>Gaura lindheimeri</i>		5	5.40	0.50	0.3	18