

Bamboo bridge at the great wall



Year: 2011
Location: China
Program: Transport and Infrastructure

Status: Unbuilt
Type: New-built
Structure: Bamboo Structure

Eco-Tourism Development Of Huanghua Cheng

Numerous slender laminated bamboo elements, bundled at the base and gradually branching out at the top, collectively form an effective tree structure to support the bridge deck. Horizontal wind and seismic forces are resisted by the deck plate structure and transferred into the robust piers at either ends of the bridge. The structural system appropriate for laminated bamboo, is not just simply replacing the steel structure for laminated bamboo, but by referencing traditional Chinese bamboo basket weaving techniques, the weak bamboo material woven together one by one makes a rigid structure similar to a basket.