



LIANAS TRELLIS[®]

Leafy spatial structures

www.lianastrellis.com

Cover photo: Installation in Cistermo (IT)

THE IDEA

Back in the 1970s, the architect and “Play Spacenet Inventor” Conrad Roland was working on spacenets and spatial structures for greening. However, his ideas were forgotten for a long time.

Our aim is to breathe new life into them for the design in public spaces. The combination of artistic public design and ecological concerns is becoming increasingly important, not least due to the cooling effect of plants.

PLANNING EXAMPLES

Design: Martino Pezzolla

Bush 01:
Truncated Icosahedron



Tree 02:
Truncated Octahedron



Tree 03:
Truncated Dodecahedron



LIANAS TRELLIS

With LIANA TRELLIS, we have reinterpreted spatial structures in a creative process. The different elements offer an innovative way of integrating more vibrant greenery into the urban environment. The system is particularly suitable where street trees take a long time to provide shade and contribute to an improved micro-climate due to a lack of space, sealed surfaces, underground car parks or parking spaces.

In the LIANAS TRELLIS structures, plants can grow in all directions. In nature, trees and climbing plants compete with each other, with the climbing plant overgrowing the tree in the long term. The advantage of faster growth is clearly visible to the plants in our structures: a dense, lush green volume is created after just two to three years.

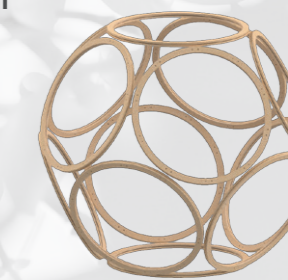


SPATIAL STRUCTURES

Spatial structures are particularly easy to build from polyhedra. The most well-known of these are the five Platonic solids: **tetrahedron, hexahedron, octahedron, dodecahedron and icosahedron**

The last three of these elements – made of rings – form the basic framework of our design. These structures can be stacked on top of or next to each other. In this way, attractive, particularly compact spatial volumes can be created.

Truncated Dodecahedron



Truncated Octahedron



Truncated Icosahedron

