**Our New Development**

**DeepHEX**

DeepHEX are hexagonal 3D-structures of Dr. Mirtsch Wölbstrukturierung GmbH with considerably increased structure dome heights compared to conventional Vault-Structures.

Possible materials for DeepHEX structuring are:

- Sheets made of steel, stainless steel, aluminum (thickness up to 1.2mm) and perforated sheet metals (thickness up to 2mm).
- In principle both flat sheets and previously welded cylinders can be processed with DeepHEX.

---

**Customer Benefits of DeepHEX**

DeepHEX due to the significantly increased height of structure domes offers synergetic performance characteristics:

- Significantly increased bending rigidity with large potential for material saving
- Enhanced crash properties by increased energy absorption
- Thermal stability in case of thermal shock loads (e.g. caused by welding)
- Particularly rigid elements when two DeepHEX structured sheet metals are joined with each other

---

**Further Processing**

Fine-Structures can be utilized to generate quasi flat edge areas or for preparation of bending edges.

---

[Dr. Mirtsch Wölbstrukturierung GmbH]