Component List

2  Ceiling panel
6  L-angle
8/9/254  Vernier suspension
14/15/16  Screw connection for hook-on profile
14/15/65  Screw connection for suspension
232  Double hook-on profile
620  Special drilling screw
633  Spacer

a  Constructional height ceiling panel
b  System height

Indoor swimming pool, Querenburg

Detail – Ceiling panel type 4

Section – Ceiling panel type 4
Ceiling panel types

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type 3</td>
<td>Hook-On, expanded metal turned up</td>
</tr>
<tr>
<td>Type 4</td>
<td>Hook-On, expanded metal bordered</td>
</tr>
<tr>
<td>Type 5</td>
<td>Hook-On/Swing-Down, expanded metal bordered</td>
</tr>
<tr>
<td>Type 6</td>
<td>Hook-On/Swing-Down, expanded metal turned up</td>
</tr>
<tr>
<td>Type 7</td>
<td>Hook-On, expanded metal bordered with opposite angle</td>
</tr>
</tbody>
</table>

Material: Galvanised sheet steel

Panel length: 250 – 3000 mm (depending on the ceiling panel type)
Panel width: 200 – 1250 mm (depending on the ceiling panel type)
Joint width: 20 – 50 mm

Serviceability: Swing-Down and slide option or removable (depending on the ceiling panel type)

Characteristic: Tested ball-impact resistance incl. integrated luminaire

Additional components: Integrated lighting solutions

Constructional height ceiling panel: 56 – 65 mm
System height: 129 – 138 mm

Weight: approx. 16 – 18 kg/m² (without fixtures/installations, depending on the expanded metal)

Wall connection options: U-profile, open wall connection

Surface: Powder coating

Colour: e.g. 9006 according to Lindner, many RAL, NCS and DB colours available

Expanded metal mesh: e.g. 40x16x3x2, many standard meshes available

Ball-impact resistance:
- Tested to EN 13964 – annex D
  - Class 1A / 2A / 3A

Sound absorption:
- Depending on the expanded metal mesh and acoustic inlays
  - Tested to EN ISO 354
  - Rated to ASTM C 423
  - up to $a_w = 1.00$, sound absorption class A
  - up to $NRC = 0.90$

Building material class:
- Metal ceiling element, powder coating and acoustic tissue
  - Tested to EN 13501-1
  - Tested to ASTM E 84
  - A2-s1, d0
  - Class A (IBC)

Assessment of flue gas:
- Tested to DIN 4102-1 – annex C
  - Harmless toxicity of flue gas

Durability:
- According to EN 13964, table 8 and 9
  - Exposure class A (interior)

Green Building:
- Environmental product declarations (EPD)
  - Validated
  - According to ISO 14025
  - Self-declared

Certification/Regulations:
- Execution of the system ceilings tested to EN 13964
- Quality standard according to the technical regulations of TAIM (Association of Industrial Metal Ceiling Manufacturers TAIM e.V.)