System 110 Hook-on Ceiling

with DP 16 Interior System

System 110

Hook-on Ceiling

The economical ceiling system to form Concave or Convex features with precision engineering from **"Suckow & Fischer"** Germany.

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SYSTEME

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System 110 – Hook-on Ceiling Interior System

Hook-on ceiling system is one of the concealed grid suspended ceiling systems being widely used for interior application. The system is rigid, stable and dimensionally flexible. Installation is simple and efficient. The ceiling design can be done in a convex or concave shape with flat ceiling panels. The ceiling panels can be fabricated in various sizes, square in tile form or rectangular shape in plank form, depending on the ceiling layout design. Furthermore, the ceiling panel is fully de-mountable at any position without the use of special tools.

The Suspension System

The suspension system is one of **"Suckow & Fischer"**. The system consists of primary structural profile, **'DP 16'** primary runner, in 27x62x27mm U-shaped profile made of galvanized steel in 0.75mm thick. The secondary structural profile, **'AS 11'** Z-shaped hook-on profile, is made of 1.25mm galvanized steel which is securely interlocked to the primary runner with a specially designed bracket, **'AS 60'**, without screw fixing. The secondary profile, **'AS 11'**, can be shifted along the primary runner, **'DP 60'** to provide accurate spacing during installation. The primary runner is suspended with suspension shoes, model **'1/22'** or **'1/51'** (heavy duty hanger) by means of threaded rods directly to the concrete soffit.

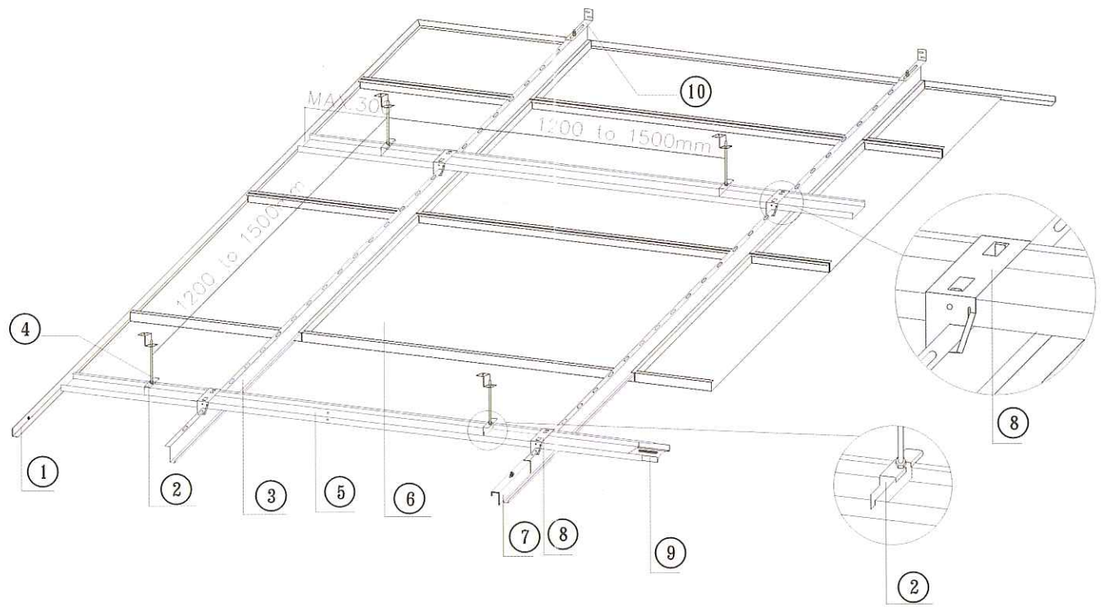
Curved Ceiling Feature

A unique design of **"Suckow & Fischer"** proprietary primary runner, **'DP 16',** can be curved with precision tooling machine to form a concave or convex curve. Please refer to the Table X for the minimum radius can be done. With the pre-curved primary runners, flat surface ceiling panels can be hook onto the secondary Z-shaped profile to achieve a Curved Ceiling feature. It is the most cost-effective system to construct a rigid, stable and de-mountable Curved Ceiling Feature.

Hook-on Panel

The high quality hook-on panel is fabricated with precision-engineered equipment to achieve flat and dimensionally stable surface. The ceiling panel is fabricated with double-bent hook and outward flange, with square edges, to hook onto the **'AS 11'** Hook-on Profile. The ceiling panel end shall be overlapped to adjacent panel end to form a harmonious ceiling surface. Ceiling panel can have a choice of 3mm black foam gasket at the panel up-stand to form a recessed shadow line and to create spacing for panel removal. Panels sizes are variable depending upon ceiling design layout, please consult our **"Suckow & Fischer"** personnel for details.

System 110 - Hook-on Ceiling with DP 16 Interior System



1 L20 L-shape Wall Angle
2 1/51 Special Hanger
3 AS 10 Hook-on Profile
4 M6 Thread Rod
5 DP 16 Primary Runner
6 Alum. Pannel
7 AS 15 Splice
8 AS 60 Bracket
9 1/104 Splice
10 AS 30 Wall Connector

Perforated Panel

For interior application, hook-on panels can be perforated for decorative purpose or for acoustic effect by adding non-woven acoustical black fleece or mineral wool acoustical pads. For more information, please refer to **"Suckow & Fischer"** Metal Ceiling Technical Brochure.

Wall & Perimeter Treatments

Available in standard wall trims or custom made bulkheads, up-stands and window pelmets, all designed to incorporate with ceiling panels in matching colours.

Building Services

Hook-on Ceiling Panels can be designed to incorporate other building service facilities such as down lighting fixtures, sprinkler heads, smoke & fire detectors, security and broadcasting systems. No Access Panel is required for easy access to plenum. Pre-opening holes fabricated at the factory are available optional.

Base Material & Finishes

Base material of the ceiling panels can be aluminium or electrolytically galvanized steel in standard RAL 9010 or other RAL colours. Finish coating of the panels can have the choices of using polyester powder coating, coil coated in advanced polymer system or polyvinylidene di-fluoride (PVDF). For more information, please refer to **"Suckow & Fischer"** Metal ceiling Technical Brochure.

Access to Plenum

Hook-on ceiling panel can be dismounted and removed from the suspension grid by hands without using special tools. Gently push the panel end upward with an outward flange to make room for lifting the adjacent ceiling panel from the hook-on profile; tilt the ceiling panel to remove from the hook-on profile.

Advantages of System 110

- Concealed suspension grid system
- Economical solution to form Concave or Convex ceiling design
- Flexible in rectangular or square shape
- Easy to integrate with all lighting fixtures & other building services
- 100% accessibility and de-mountability without tools
- Low maintenance with durable product life

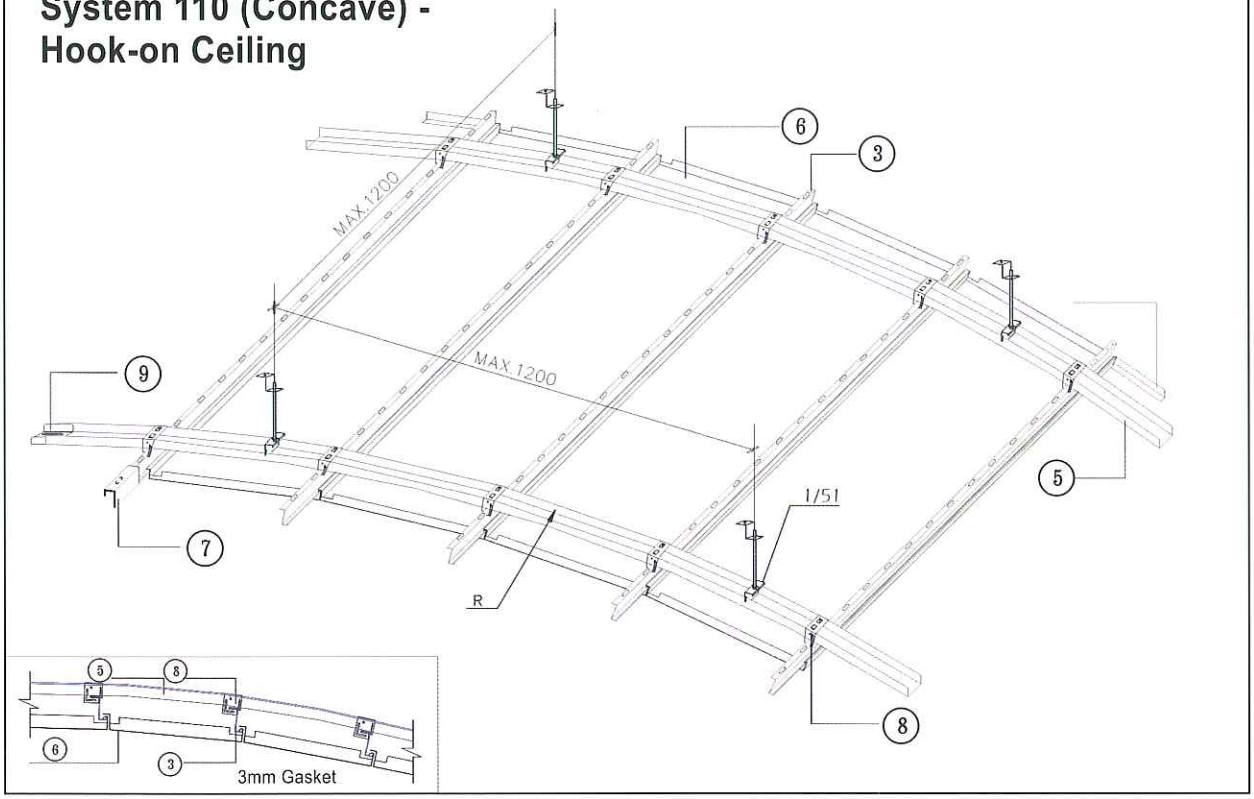
Table X

	Convex Ceiling	Concave Ceiling
Minimim Radius	R = 800mm	R = 950mm
	* Every different Radius will involve set-up cost per type * Curved Runner 200mm straight on both ends at minimum radius	

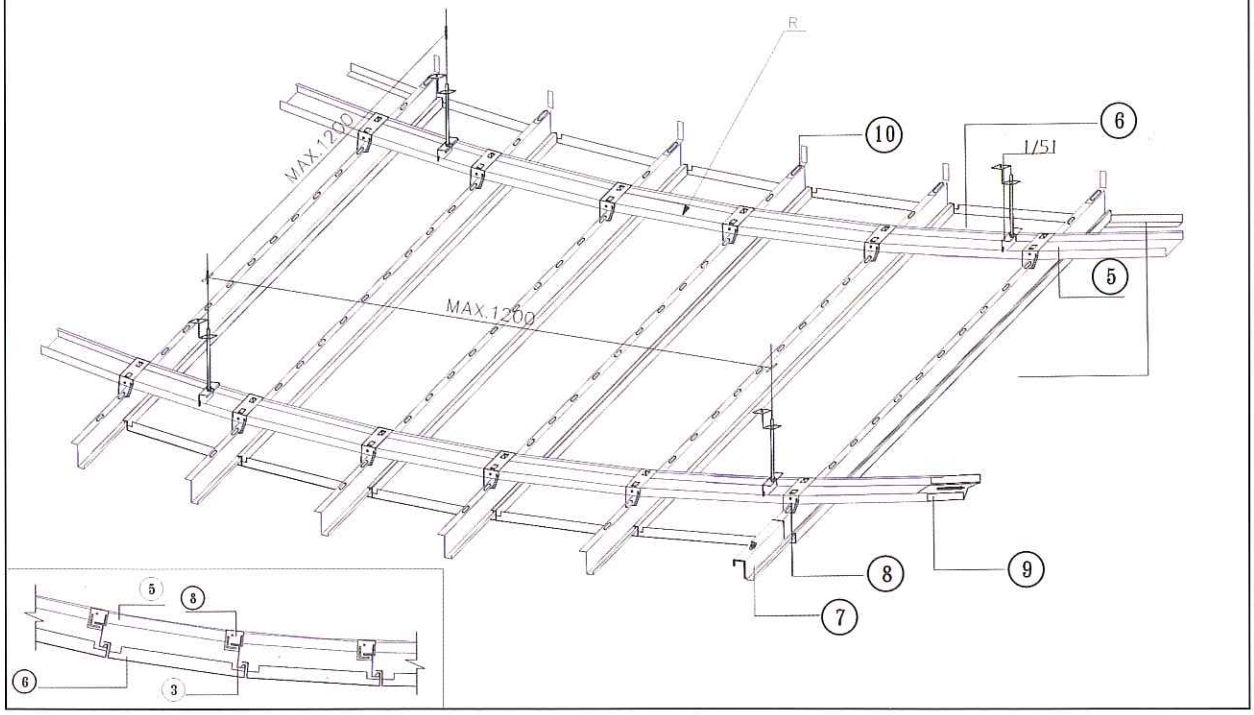
Table Y

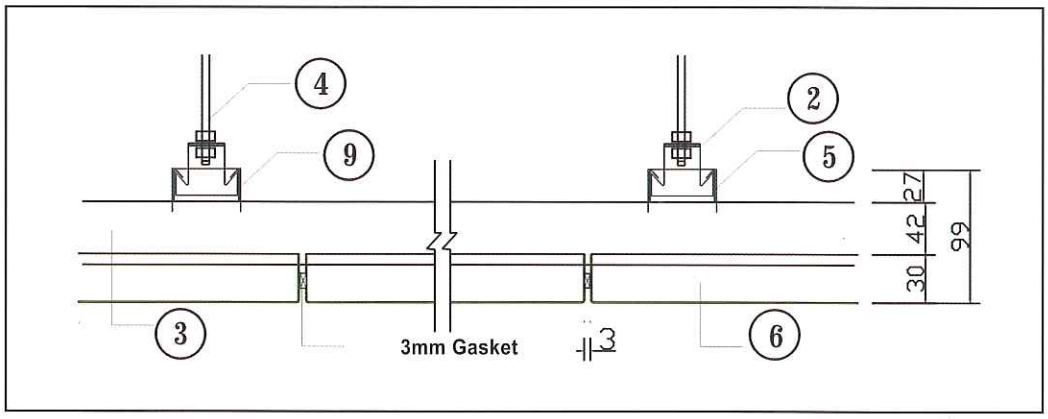
	Recommanded Ceiling Radius Vs Panel Width
Convex and Concave	**Assume Arch-length at 8000mm long or above**
R > / = : 5 M	Maximum Width = 440mm
R > / = : 10 M	Maximum Width = 630mm
R > / = : 15 M	Maximum Width = 770mm
R > / = : 20 M and up	Maximum Width = 890mm

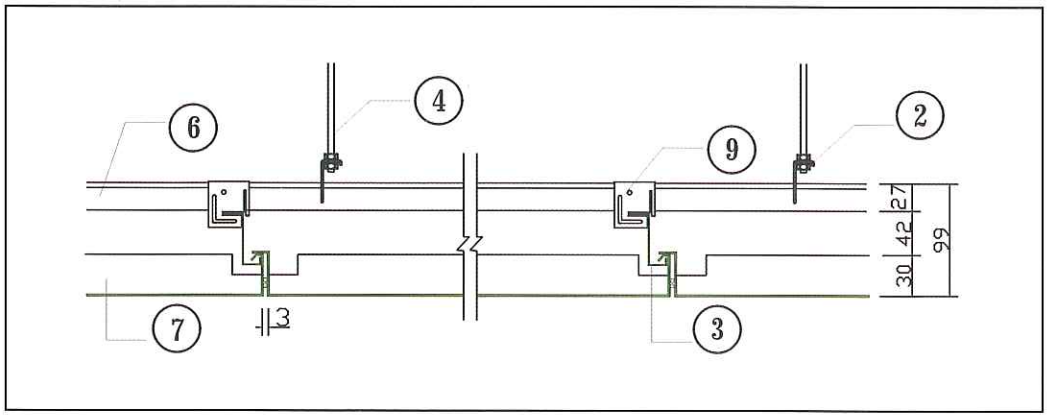
System 110 (Concave) - Hook-on Ceiling



System 110 (Convex) - Hook-on Ceiling




4
9
2
5
27
42
30
99
3
3mm Gasket
3
6


6
4
9
2
27
42
30
99
7
3
3

Brief Specification

Part 1 - INTRODUCTION

"Suckow & Fischer" is a German branded product. **"Suckow & Fischer" System 110 - Hook-on Interior Ceiling** is rigid, stable and dimensionally flexible. The ceiling design can be done in a convex or concave shape with flat ceiling panels, and it is fully de-mountable at any position without the use of special tools.

Part 2 - PRODUCT

2.1 **Suspension System**

2.1.1 **Primary Structural Profile**

The Primary Structural Profile **'DP 16'** Primary Runner is made of galvanized steel in 27x62.5x27mm and 0.75mm thick, 4M length per piece. The primary structure is suspended with suspension shoes, model **'1/22' or '1/51'** (heavy duty hanger) by means of **GMS M6** threaded rod directly to concrete soffit, and at a maximum distance of 1200mm c/c (as per Manufacturer's recommendation).

For curved ceiling, Primary Structure Profile can be curved to form a convex or concave shape ceiling with minimum radius of 800mm and 950mm respectively (Curved profile with 200mm straight on both ends for minimum radius of 1000mm).

2.1.2 **Secondary Structural Profile**

The Secondary Structural Profile, **'AS 11'** or **'AS 10'** Z-shaped Hook-on Profile is made of galvanized steel in 19x50mm and 1.25mm thick, 4M length per piece. The **'AS 11'** Z-shaped Hook-on Profile is securely interlocking to the Primary Runner. It shall be fixed to the Primary Structural Profile by **'AS 60'** Connection Bracket at a maximum 1200mm c/c distance to support the ceiling panels (as per Manufacturer's recommendation).

2.2 **Ceiling Panels**

The ceiling panels can be fabricated in various sizes and thickness (from 1.0mm to 2.0mm) depending on the design requirements with an optional choice of 3mm black foam gasket between panels. The ceiling panel is fabricated with double-bent hook and outward flanges, with square edges, to hook onto the **'AS 11'** Hook-on Profile.

2.3 **Base Material & Finishes**

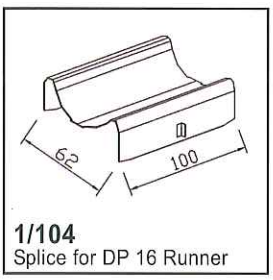
Base material of the ceiling panels can be aluminium or electrolytically galvanized steel coated in polyester powder finish in standard white RAL 9010 with minimum of 60 micron thick or other RAL colours. Optional coating finishes of polymer stoved-enamelled or PVDF pre-painted or post-painted process are available upon request.

PART 3 - WALL ANGLE & PERFORATED PATTERN

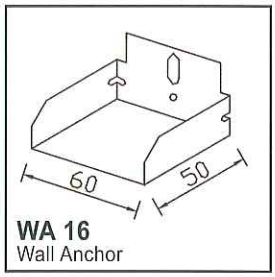
Please refer to **"Suckow & Fischer"** Metal Ceiling Technical Brochure.

Accessories

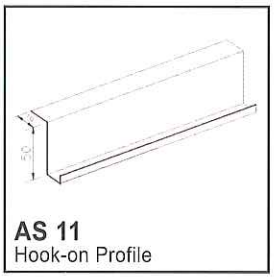
DP 16
Primary Runner



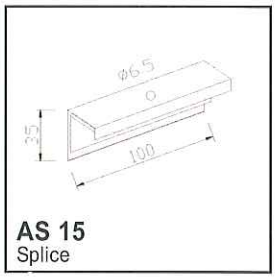
1/104
Splice for DP 16 Runner



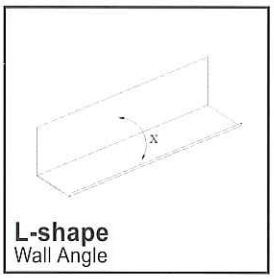
WA 16
Wall Anchor



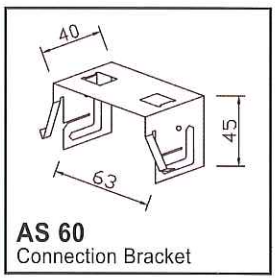
AS 11
Hook-on Profile



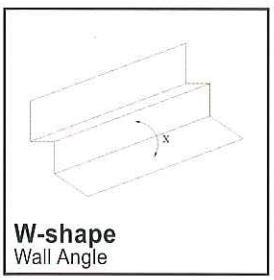
AS 15
Splice



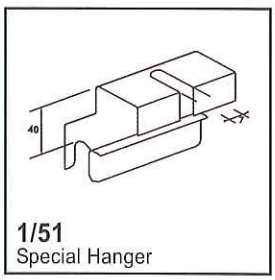
L-shape
Wall Angle



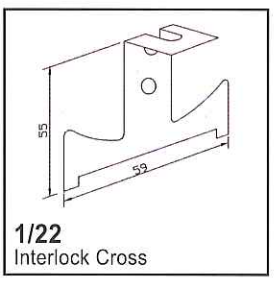
AS 60
Connection Bracket



W-shape
Wall Angle



1/51
Special Hanger



1/22
Interlock Cross