

System 170

Double Directional C-grid Ceiling

A two way modular grid system developed by "Suckow & Fischer" Germany. The system is rigid, functional and flexible in design to suit all building services and wall partitions.

System 170

Double Directional C-grid Ceiling

Brief Specification

Part 1 - INTRODUCTION

"Suckow & Fischer" is a German branded product. "Suckow & Fischer" System 170 – Double Directional C-Grid Ceiling System is rigid, stable and dimensionally flexible. It is widely used for interior application. The ceiling panel is fully demountable 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, 'AS 20' Primary Angle Runner is made of galvanized steel in 30x30mm and 2.0mm thick, 4M length per piece with 6.5mm diameter hole at 12.5mm c/c. The primary structure is suspended with GMS M6 threaded rods at a maximum distance of 1200mm c/c (as per Manufacturer's recommendation).

2.1.2 Secondary C-Grid Profile

The Secondary C-grid Profile 'PB 80/100/125/150' C-shaped grid in 80, 100, 125 and 150mm respectively, is made of 1.25mm galvanized steel with powder coated finish on visible surface. The C-grid profile is fixed to primary angle runner by means of hanger brackets 'ZA 80/100/125/100' with M6 bolts and nuts. The cross runner, C-grid profile is butt jointed to the main runner C-grid profile with GMS T-connecting bracket 'ZK 10/100/125/150' to form a square modular grid structure. This Primary Structural Profile is suspended directly to the concrete soffit.

2.2 Ceiling Panels

The ceiling panels can be fabricated in various sizes and thickness (from 0.7mm to 3.0mm) depending on the design requirements with an optional choice of 3mm black foam gasket. The ceiling panel is fabricated with two outward flanges (or four outward flanges upon request), with square edges, to lay onto the C-grid Profile. Recommended grid modular sizes are : 300x1200mm, 300x1500mm, 600x1200mm, 1000x1000mm, 1200x1200mm and 1500x1500mm c/c (as per Manufacturer's recommendation).

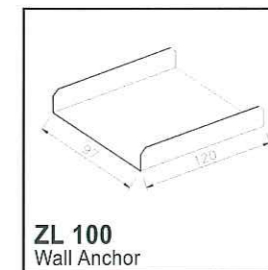
2.3 Base Material & Finishes

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 or other RAL colours. Optional coating finishes of polymer stove-enamelled or PVDF pre-paint or post-paint processes are available upon request.

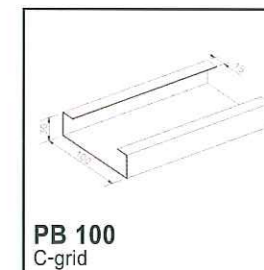
PART 3 - WALL ANGLE & PERFORATED PATTERN

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

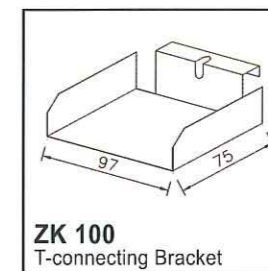
Accessories



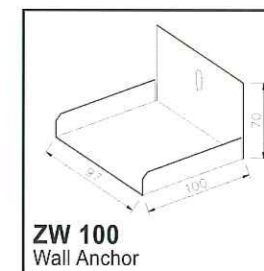
ZL 100
Wall Anchor



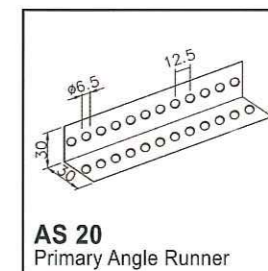
PB 100
C-grid



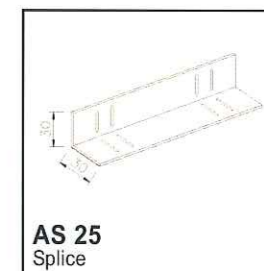
ZK 100
T-connecting Bracket



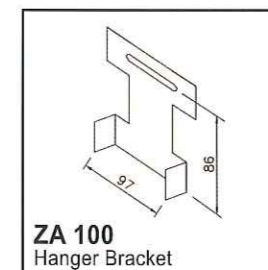
ZW 100
Wall Anchor



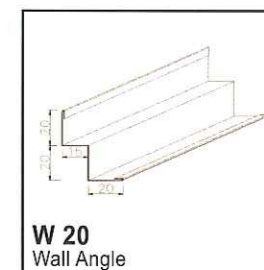
AS 20
Primary Angle Runner



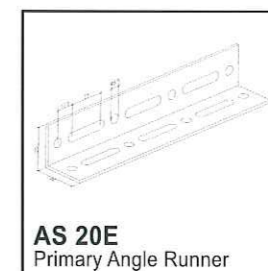
AS 25
Splice



ZA 100
Hanger Bracket



W 20
Wall Angle



AS 20E
Primary Angle Runner



System 170 – Double Directional C-grid Ceiling System

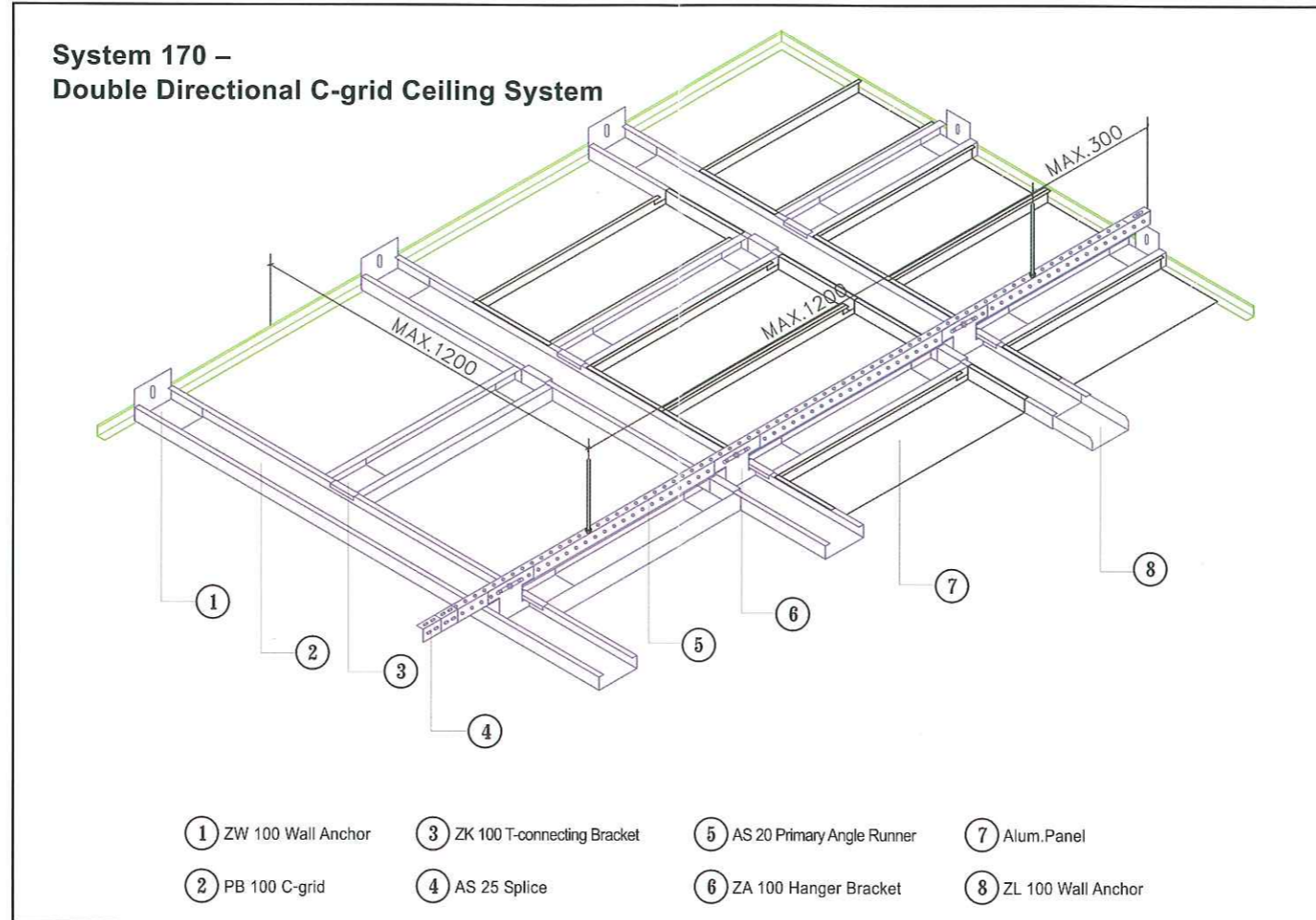
Double Directional C-grid ceiling system is one of the Lay-in suspended ceiling systems being widely used for interior application. The C-grid system has main runners and shorter cross runners integrated to form a square modular ceiling. The system is rigid, stable and dimensionally flexible. It is particularly designed to accommodate full height wall partitions for exhibition halls or commercial buildings. 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” proprietary systems. The system consists of primary structural profile, ‘AS 20’ primary angle runner, in 30x30mm made of galvanized steel in 2.0mm thick with both flanges pierced to provide accurate spacing and even distribution of loading. The secondary C-grid profile, ‘PB 80/100/125/150’ C-shaped grid in 80, 100, 125 and 150mm respectively, is made of 1.25mm galvanized steel with powder coated finish on visible surface. The main runner, C-grid profile, is fixed to primary angle runner by means of hanger brackets, ‘ZA 80/100/125/150’ with M6 bolts & nuts. The cross runner, C-grid profile is butt jointed to the main runner C-grid profile with T-connecting bracket, ‘ZK 80/100/125/150’ to form a rigid and stable square modular grid structure. The primary structure is suspended with threaded rods directly to the concrete soffit. Due to the rigidity of the system, wall partition tracks or promotional banners can be fixed directly onto the surface of the C-grid to achieve a functional and versatile ceiling design.

The Lay-in Panel

The high quality lay-in panel is fabricated with precision-engineered equipment to achieve flat and dimensionally stable surface. The ceiling panel is fabricated with outward flange, with square edges, to lay onto the C-grid profile. The ceiling panel and the C-grid profile are flushed at the same



level to form a harmonious and flat 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. Recommended grid modular sizes are: 1000x1000mm and 1200x1200mm. You have choices of various width of C-grids in 80, 100, 125 and 150mm. The panel sizes are flexible to fit into your choice of grid modules, please consult our “Suckow & Fischer” personnel for details.

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

All C-grid profiles have special designed wall anchors (‘ZS 80/100/125/150’ with shadow line and ‘ZW 80/100/125/150’ without shadow line) to fix directly onto wall for proper loading distribution and grid alignment. Also, 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

Lay-in Ceiling Panels or the C-grid profiles 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 as options.

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

Lay-in ceiling panel can be dismantled and removed from the suspension grid by hands without using special tools. Gently push the panel end upward at one end and tilt the ceiling panel to remove from the C-grid profile.



Advantages of System 170

- Functional, versatile and durable ceiling system
- Modular form ceiling with exposed C-grid system
- Can accommodate wall partitions and promotional banners
- Flexible in rectangular or square shape of ceiling panels
- Easy to integrate with all lighting fixtures & other building services
- 100% accessibility and de-mountability without tools

