

Compact Pyramid Chamber (CPC)

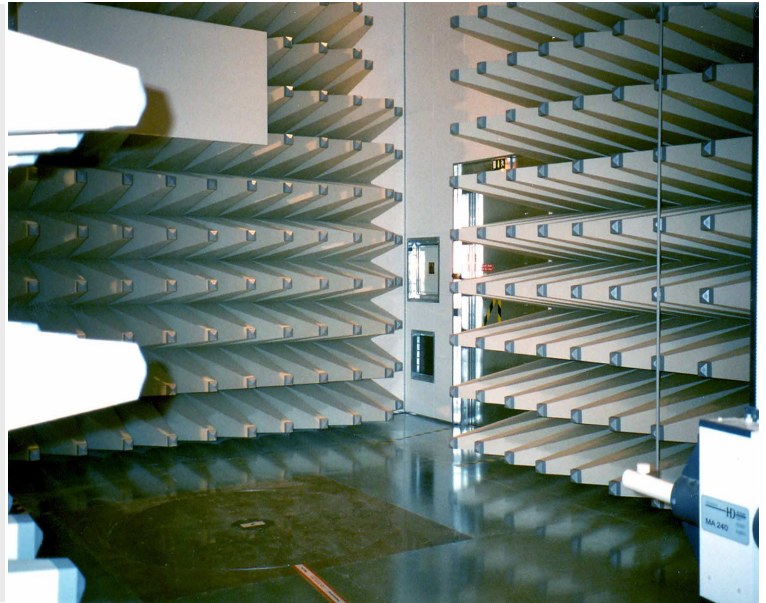
(Full Compliant Anechoic Chamber, 3m Test Distance)



FRANKONIA

Features:

- **Semi Anechoic Chamber, full compliant "CE-Mark" testing**
- **Frequency Range** 26MHz – 18GHz
- **Standards, Immunity, all full compliance** IEC 61000-4-3 +A1
EN 61000-4-3 +A1
ENV 50140
- **Standards, Emission, all full compliance** EN 55022B
EN 50147-1,-2
ANSI C63.4
- **Available as a Turnkey Project, Including Complete Instrumentation, Antenna Support, Turntable, and Software**



Chamber Design

The FRANKONIA CPC 3m is a major break through in chamber design. FRANKONIA can offer a 3m anechoic chamber that fulfills EN 55022B and EN 61000-4-3+A1 (and related standards) without use of ferrite or hybrid absorbers.

A full 4m-height scan can be performed for full compliance emission measurement.

The advantages are quite obvious:

- Much lower cost since ferrites are not needed by design (only 9m² ferrite or hybrid absorbers for immunity testing needed on the floor)
- Small outside dimensions fit existing buildings
- Full frequency range 26MHz – 18GHz from the beginning (no expensive frequency performance upgrades necessary)
- No "mix" of different absorber types, therefore all walls and the ceiling have the same physical properties (all absorbers follow the FrankoSorb[®] technology)

Absorber Technology

This chamber is equipped with FRANKONIA's innovative FrankoSorb[®] absorber technology (Carrier/Supporting Material compliant with German Fire Class DIN 4102 B1). FRANKONIA is the only company worldwide that can also offer truly non-combustible absorbers. The carrier/supporting material meets the German Fire Class DIN 4102 A2 standard. This is achieved by using mineral fiber plates as supporting material, instead of foamed material, which is extremely flammable. A non-combustible and electrically neutral material maintains FrankoSorb[®]'s "pyramid" shape. An absorbing and electroconductive layer coats the supporting material. The mechanical function is completely separated from the electrical function, which allows fabrication of non-combustible hollow pyramid absorbers.

So, how does FrankoSorb[®]'s performance relate to the more traditional foamed pyramid absorbers? FrankoSorb[®] gives you exactly the same performance as a foamed pyramid absorber.

Performance

FRANKONIA's CPC 3m can be used to perform full compliance immunity testing according to IEC61000-4-3, EN61000-4-3+A1, ENV50140, and full compliance emission measurements according to EN55022B.

FRANKONIA - your single source for EMC

FRANKONIA is not just a system integrator of third party products. FRANKONIA developed and manufactures a complete product line of EMC equipment:

- Shielding Panels (Pan-Type and Sandwich-Type)
- FrankoSorb[®] Absorbers including non-combustible absorbers
- Doors and Gates
- TEM_{pact}[®] GHz-TEM-cell
- Antennas
- Amplifiers
- Software

Our suppliers also offer a wide range of products. There are famous names like Deisel, Pontis, AFJ, Schenck, emc partner, R&S.

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Technical Data

Absorbers

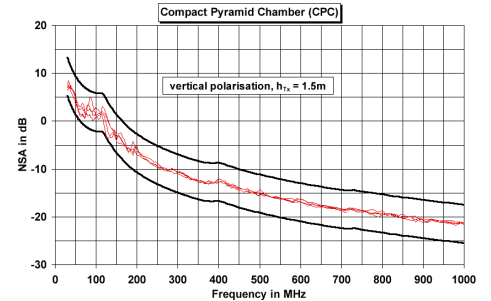
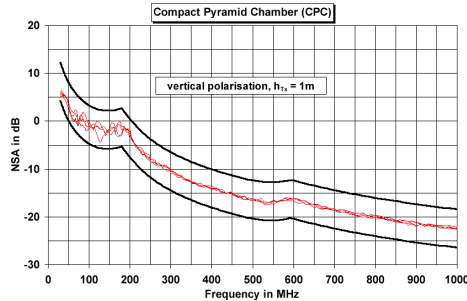
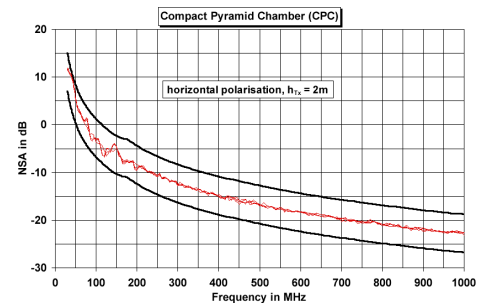
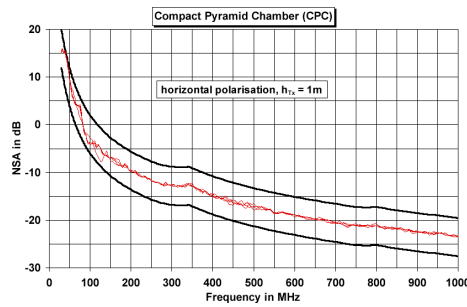
- FrankoSorb® P1450 and P1000
- Flat Absorber FrankoSorb® W001
- Longitudinal Absorber FrankoSorb® U001
- FrankoSorb® H300
(9m² on Floor for Immunity Testing)

Standard Configuration

- Shielding (Pan Type)
- Steel Construction (also partial if building is suitable)
- False Floor with Ground Plane (max. load 1000kg/m²)
- 1 Turntable Ø2m
- 1 Automatic Antenna Support 1m-4m Height Scan
- 1 Controller for Turntable and Support
- 1 Personnel Hinged Door 1238mm x 1968mm
- Electrical Distribution
- 1 Power Line Filter 4 x 30A
- 1 Power Line Filter 2 x 30A
- 2 Access Panels
- 2 Connection Panels (3m Position and next to/middle of Turntable)
- 6 Honeycomb Inserts for Ventilation

Available Options

- FrankoSorb® P1450 A2 and P1000 A2 (A2 = non-combustible)
- Sliding Doors (automatic)

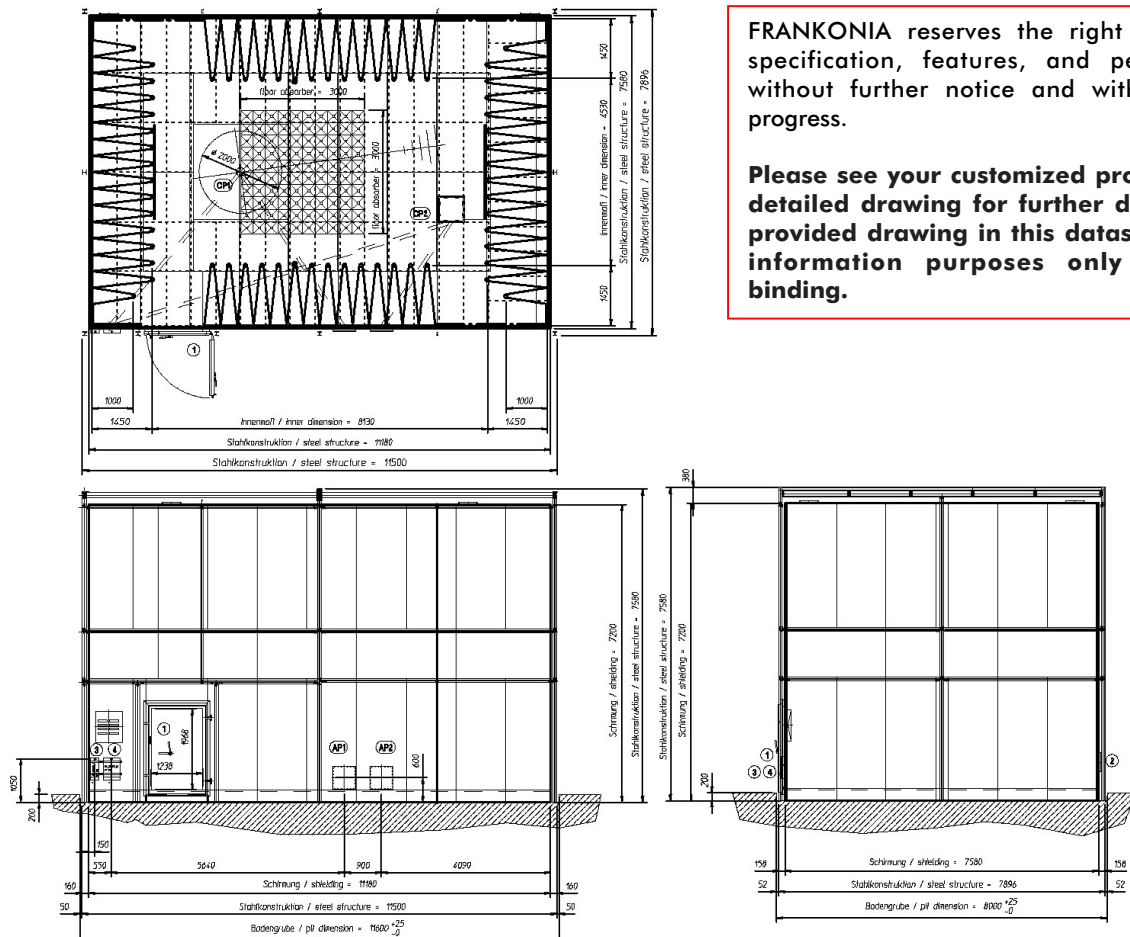


- Manual Ramp (150mm height)
- CCTV
- NSA measurement 30MHz-1GHz According to EN 50147-2 and Related Standards
- 1GHz-18GHz NSA Correlation to Free Space
- Automatic Ramp or Platform (With Respect to Floor Levels of Building and Chamber)
- IEC 61000-4-3(IEC 1000-4-3) /EN 61000-4-3 +A1 Uniformity Measurements (-0dB/+6dB, 75%)
- Full instrumentation
- Full automation
- Immunity Software

- Emission Software

Dimensions

- **Outside incl. Steel Construction, L x W x H**
Absorbers Standard: 11500mm x 7896mm x 7580mm
Absorbers Class A2: 11520mm x 7914mm x 7580mm
- **Outside Shielding only L x W x H**
11180mm x 7580mm x 7200mm
- **Inside, L x W x H between absorber tips / ground plane**
8080mm x 4480mm x 5350mm



FRANKONIA reserves the right to change specification, features, and performance without further notice and with technical progress.

Please see your customized proposal and detailed drawing for further details. The provided drawing in this datasheet is for information purposes only and not binding.