

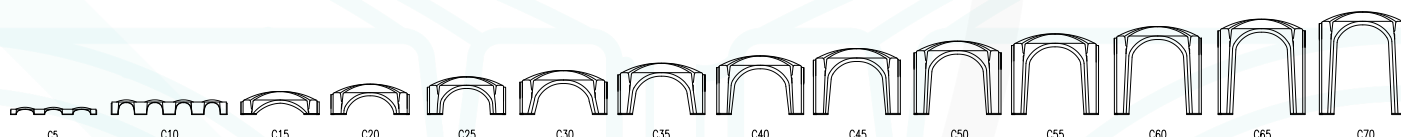
General Technical specifications

Models **C5** to **C70**

Technical Data	C5	C10	C15	C20	C25	C30	C35	C40	C45	C50	C55	C60	C65	C70
Material	Polypropylene													
Dimensions (mm)	580x400	780x580	750x500	750x500	750x500	750x500	750x500	750x500	750x500	750x500	750x500	750x500	750x500	750x500
Total Height (mm)	50	100	150	200	250	300	350	400	450	500	550	600	650	700
Interior Height (mm)	20	73	95	145	190	240	290	345	400	450	500	550	600	650
Supp. on ground (cm ² /m ²)	1.295	1.696	1.233	1.120	1.014	913	817	726	860	753	633	950	844	743
Concrete (l/m ²)*	4,50	10,50	30	35	40	43	49	53	77	81	84	93	97	102
Pieces/m ²	4,31	2,21	2,67	2,67	2,67	2,67	2,67	2,67	2,67	2,67	2,67	2,67	2,67	2,67
Weight (kg/m ²)*	14	24	66	77	88	95	107	117	170	179	185	236	245	260
Concrete in cl.	HA-25													
Concrete in slab	HM-20													
Pieces/pallet	500	140	100	100	100	100	100	100	90	90	90	90	90	90
m ² /pallet	116,3	63,3	37,5	37,5	37,5	37,5	37,5	37,5	33,2	33,2	33,2	33,2	33,2	33,2

*These values exclude the compression layer
cl: compression layer

Differents Cáviti models



System uses

The Cáviti system is intended for the following uses:

- Sanitary slabs and ventilated floor section.
- Light roofing covers.
- Screeds of existing floorings.
- Refrigeration and industrial warehouses.
- Refurbishments.
- Pedestrian areas and platforms.
- Vehicle traffic and parking areas.
- Firefighter passageways.

Limitations of Use

- Sand or mortar may not be used in filling the Cáviti formwork.
- The support element must avoid large irregularities that generate poor support for the pillars generated by the system.
- For high, even, point or dynamic loads, the section must be sized in collaboration with the Cáviti technical department (caviti@caviti.com).
- Compression layers less than 5 cm, or not reinforced, would not meet the standard.
- Concrete with resistance not less than 25 N/mm² (HA-25) must be used.
- The support on expansive terrain or with a very low bearing capacity, must be sized in collaboration with the technical department of Cáviti (caviti@caviti.com).
- All cases not specified in our Suitability for Use Document (DAU 14/086).

General Technical specifications

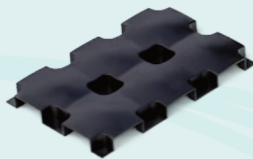
Models C5 and C10

Bearing capacities

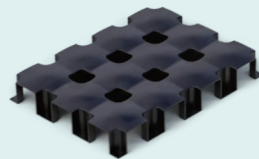
- Maximum bearing capacity defined in kg/m² depending on the section of concrete for cleaning (CC), compression layer (CL) and the admissible stress of the ground.
- Sections greater than 10 cm of cleaning concrete do not improve the bearing capacity.
- This refers to even loads, discounting the system's own weights and considering safety coefficients.
- Point loading is not taken into account.

CC	CL	Allowable stress (kg/cm ²)					
cm	cm	0,50	1,00	1,50	2,00	3,00	4,00
5	5	1.419	3.007	4.594	6.181	9.356	12.530
10	5	4.649	9.649	14.649	18.666	18.666	18.666
>10	5	soil resistant (máx. 18.866)					
5	7	1.369	2.957	4.544	6.131	9.306	12.480
10	7	4.599	9.599	14.599	19.599	28.616	28.616
>10	7	soil resistant (máx. 28.816)					

CC: cleaning concrete section in cm
CL: compression layer section in cm



Model C5



Model C10



Models C15 to C70

Models C15 to C70

Bearing capacities

- Maximum bearing capacity defined in kg/m² depending on the section of concrete for cleaning (CC), compression layer (CL) and the admissible stress of the ground.
- This refers to even loads, discounting the system's own weights and considering safety coefficients.
- Point loading is not taken into account.

CC	CL	Allowable stress (kg/cm ²)					
cm	cm	0,50	1,00	1,50	2,00	3,00	4,00
5	5	355	1.012	1.668	2.325	3.638	4.951
10	5	1.037	2.417	3.798	5.178	7.360	7.540
15	5	1.941	4.312	6.651	7.540	7.540	7.540
20	5	2.909	6.384	7.540	7.540	7.540	7.540
5	8	305	962	1.618	2.275	3.588	4.901
10	8	987	2.367	3.748	5.128	7.889	10.651
15	8	1.891	4.262	6.634	9.005	13.290	13.800
20	8	2.859	6.334	9.809	13.230	13.800	13.800
5	10	230	887	1.543	2.200	3.513	4.826
10	10	912	2.292	3.673	5.053	7.814	10.576
15	10	1.816	4.187	6.559	8.930	13.673	17.643
20	10	2.784	6.259	9.734	13.210	17.750	17.750

CC: cleaning concrete section in cm
CL: compression layer section in cm

General Technical specifications

Models **C5** to **C70**

On-site installation criteria

Support Flatness

As we are dealing with a pre-cast system formed by the bonding of modules that must fit together, the support must have the greatest flatness possible, rather than horizontality, to avoid unstable supporting of the pieces.

Support on site

It will only be viable if the support displays sufficient resistance and that with the indicated flatness is complied with. Otherwise, a regularisation layer with HM-20 concrete will have to be added, as a means of improving the terrain. In most cases 5 cm will suffice.

Concrete pouring

The pouring of concrete can be performed using pumps or buckets.

It will be poured onto the dome of the modules so that it falls into the pillars, since, if it is projected directly onto the pillars, the pressure of the pouring can cause the formwork to separate.

For heights greater than C45, concrete with fluidity not exceeding cone 16 must be used.

Concrete vibration

The vibrating action is essential to avoid gaps inside the pillars, also facilitating the setting and hardening process.

The vibrator must not remain overly long inside the pillars. The concrete must be pierced quickly to prevent the forms from opening.

Reinforced

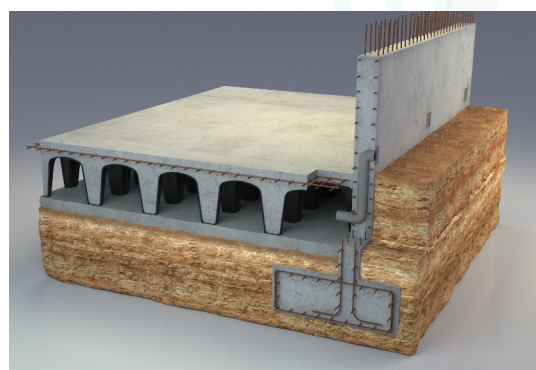
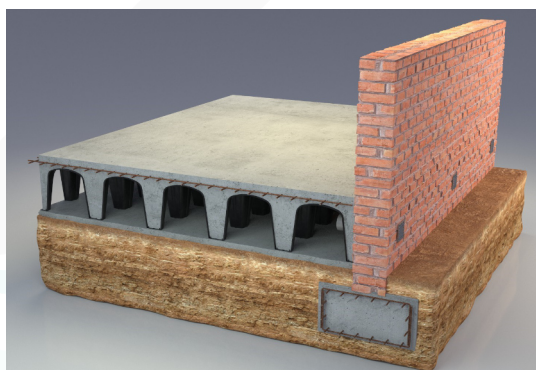
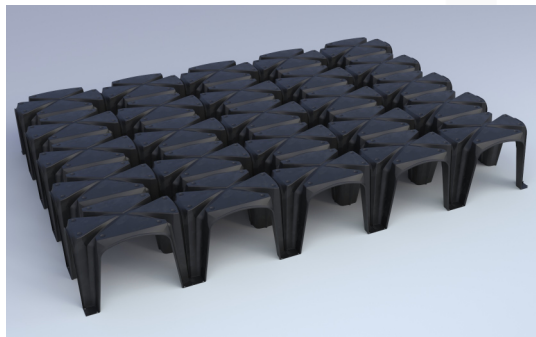
Electro-welded meshes that meet the technical requirements set forth in UNE 36092:96 will be used, that is, 15x15 or 20x20 cm grids, with 6 or 8-mm round bars.

Ventilation

The specifications contained in the Technical Edification Code (CTE) in its Basic Document "DB HS Health and Sanitation" must be met, which defines ventilating sections based on the surface of the sanitary chamber, maximum distances between ventilation points and their location.

Radon

The specifications contained in the CTE in its Basic Document "DB HS Protection against exposure to radon" must be met for those municipalities included in this standard, which defines ventilating sections based on the length of the exposed facades, maximum distances between ventilation points and their location.



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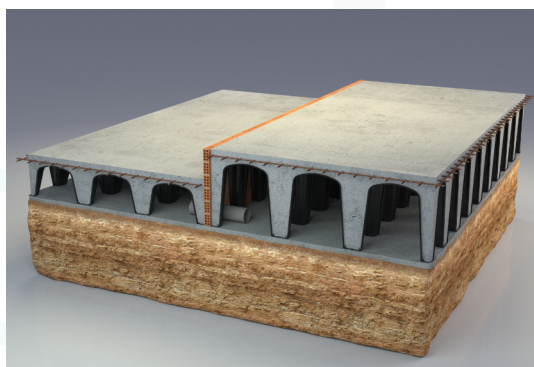
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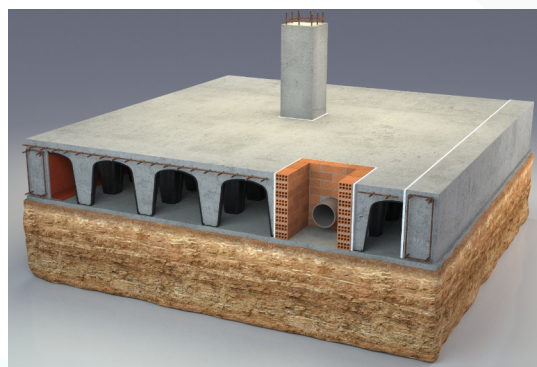
Variable edge section, inclined support



Variable edge section, ramp



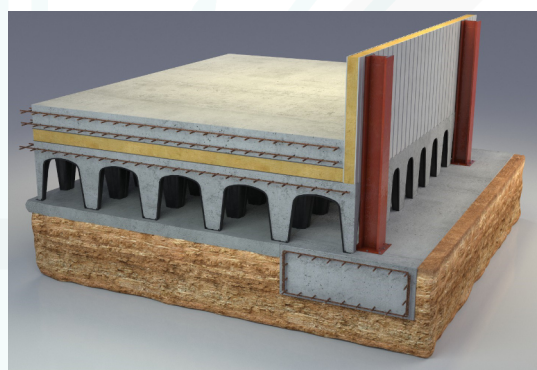
Change of upper limit



Encounters with construction elements



Same level ventilation
Passive house section



Cold storage

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