



ALLOWABLE LOADS STEC 47/60 + F60 FALSE CEILING SYSTEM

DESCRIPTION AND LOAD TYPES

■ Le système de faux-plafond F60 a été dimensionné pour supporter le poids de jusqu'à 3 plaques de plâtre laminé (PPL) et d'un isolant de type laine minérale ou similaire. Toute autre charge, par exemple les installations, doit être fixée à la dalle avec ses propres suspensions, autres que celles du système F60 de Kingspan.

■ For the purposes of this document, the total loads to be suspended from the F60 system are classified as:

CLASS 1: Loads up to 0.20 kN/m²

CLASS 2: Loads up to 0.35 kN/m²

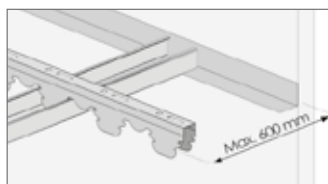
CLASS 3: Loads up to 0.45 kN/m²

■ To obtain the maximum load, the weight of the boards to be suspended from the system and the weight of the insulation will be added. The resulting load will be multiplied by a safety factor of 1.35.

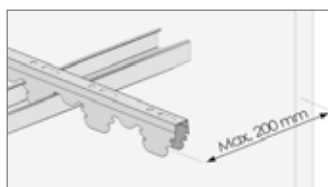
CROISEMENTS AVEC DES MURS VERTICAUX

The system can be executed with or without a perimeter angle where the F60 rail meets the vertical wall.

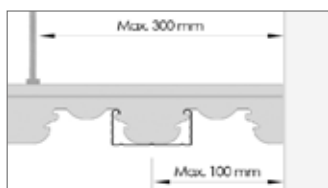
If a perimeter angle is used, the F60 rail will not be screwed to the perimeter profile and will have a maximum gap of 600 mm.



If a perimeter angle is not used, the F60 rail will have a maximum gap of 200 mm.



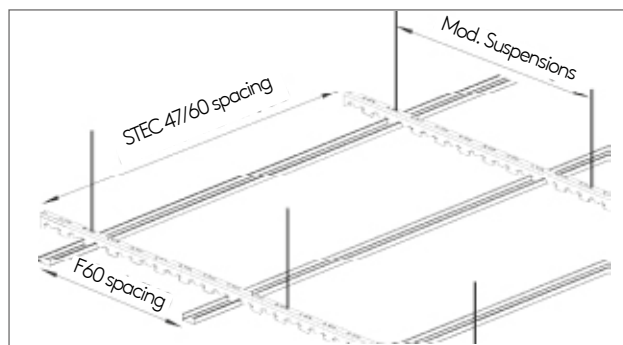
Where the STEC 47/60 profile meets the vertical wall, it is not necessary to have a perimeter profile.



The first suspension will be located at a maximum distance of **300 mm** and the first F60 rail at a maximum distance of **100 mm**.

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DOUBLE STRUCTURE CEILING (F60 + STEC 47/60)



CLASS 1: < 0.20 kN/m²

F60 spacing	STEC47/60 spacing	Hangers max. spacing
0.4	0.80	1.00
	1.00	0.90
	1.20	0.80
0.5	0.80	1.00
	1.00	0.90
	1.20	0.80
0.6	0.80	1.00
	1.00	0.90
	1.20	0.80

1 kN ≈ 100 kg
0.20 kN/m² ≈ 20 kg/m²
0.35 kN/m² ≈ 35 kg/m²
0.45 kN/m² ≈ 45 kg/m²

CLASS 2: < 0.35 kN/m²

F60 spacing	STEC47/60 spacing	Hangers max. spacing
0.4	0.80	0.75
	1.00	0.70
	1.20	0.60
0.5	0.80	0.75
	1.00	0.70
0.6	0.80	0.75
	1.00	0.70

CLASS 3: < 0.45 kN/m²

F60 spacing	STEC47/60 spacing	Hangers max. spacing
0.4	0.80	0.65
0.5	1.00	0.60
0.6	0.80	0.65

EXAMPLES OF APPLICATION

■ **EXAMPLE 1:** Find the load class when of a ceiling made up with three boards of 0,09 kN/m² each and a 0,04 kN/m² insulating layer. The total weight will be: [(3 x 0.09) + 0.04] x 1.35 = 0.42 kN/m², and therefore it will be **CLASS 3**.

■ **EXAMPLE 2:** If we have a **CLASS 2** load, and we want to use a simple structure system with F60 spaced every 0,6 m. In this case, the hanger anchors will be arranged at most every 0.75 m.

■ **EXAMPLE 3:** Suppose we have a **CLASS 2** load, and we want to use the double structure system and STEC 47/60 arranged at 1.2 m centers. In this case, the F60 profiles will be spaced at a maximum of 0.4 m and the hangers spaced at a maximum of 0.60 m.