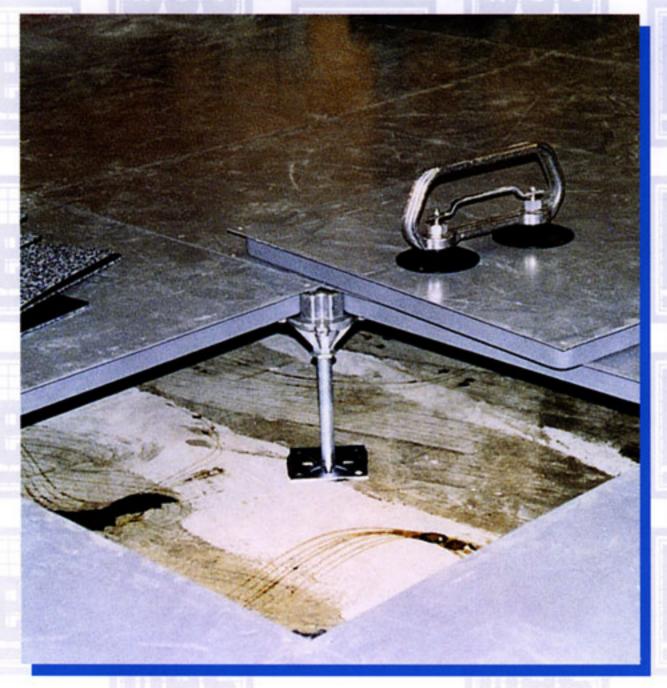
# BES MK30 SERIES GRIDLESS SYSTEM





	TECHNICAL DATA IN BRIEF		
	Description	Model BES MK30-10	Model BES MK30-8
	Concentrated Load	4.5 kN (1000 lbf)	3.0 kN (670 lbf)
	Uniform Distributed Load	12 kN per M <sup>2</sup> (250 lb per sq ft)	12 kN per M <sup>2</sup> (250 lb per sq ft)
	Impact Load	0.40 kN (90 lbf)	0.40 kN (90 lbf)
	Rolling Load	3.3 kN (740 lbf)	2.7 kN (600 lbf)
	Fire Protection	Non-combustible  Die form steel shell, epoxy painted and infill with cementitious compound.	
	General Construction		
THE PERSONS	Finish Floor Height	Min 150mm	Max 300mm

## **BES MK30 SERIES GRIDLESS SYSTEM**

**Specifications** 

#### 1. THE SYSTEM IN GENERAL

- 1.1 The system shall be BES MK30\* SERIES Gridless System being manufactured by Building Equipment Services Sdn Bhd consisting of modular square panels and pedestal assemblies. Pedestal assemblies are carefully installed at 600mm centres to support the modular square panels equally at the corners. Bolting down the modular square panel to the pedestal assembl is not recommended.
- 1.2 The main components of the system shall be as follows:
  - a. Modular square panel 600mm x 600mm x 33mm nominal thick and comply to the loading requirement as specified.
  - b. Pedestal assemblies.
- 1.3 The weight of the modular square panel shall not exceed 16kg per piece and therefore shall be easily removed by one person with a lifting device. These modular square panels shall be interchangeable in all respect unless being cut for a particular position or purpose.
- 1.4 The pedestal assemblies shall be glued to the sub-floor with an approved fillet adhesive and carefully installed at 600mm centres.
- 1.5 The system when completed shall be sturdy, rigid and free of rattles, squeaks and other vibrations. The floor shall achieve to an overall flatness of within 1.5mm over any area of 5M² and within 6.0mm over any size of the enclosed space. It shall also be capable of accepting a concentrated load as specified over an area of 6.25cm square.
- 1.6 The Gridless System shall be constructed to a specified height with 30mm plus minus vertical adjustment.

### 2. PANELS

- 2.1 The modular square panel shall be 600mm x 600mm with manufacturing tolerance within 0.5mm. All edges are sealed with hard PVC trim grey colour and with mitred corner joints.
  - \*\*The edges of bare finish panel shall be folded flush with the bottom pan to eliminate any visible gap along its perimeter. No PVC trim is required for bare finish panel.
- 2.2 The modular square panel shall consist of the following parts:
  - a. A die-formed steel bottom, pan of 33mm nominal depth consisting of 64 hemispherical cups moulded by cold-forming process to achieve 7 rows of uniform structural ribs running in both directions.
  - b. The top flat sheet is die-cut similar in size to the bottom pan and spot-welded together to form a square modular panel.
  - c. The panel shall have at least 100 resistance welded points in accordance with the manufacturer's approved welding procedures.
- 2.3 The modular square panel shall be surface coated with an approved epoxy paint system.
- 2.4 Floor covering as specified shall be laminated to the panel by double gluing method using an approved adhesive system being selected by the manufacturer.

Floor covering would not peel from the panel or create any formation of air cavity under normal usage or under specified environmental conditions.

#### 3. PEDESTAL ASSEMBLY

- 3.1 Pedestal assembly shall consist of:
  - a. pedestal head complete with self-locking device.
  - b. pedestal base of a specified height.
- 3.2 Pedestal head shall be fabricated from either steel die form plate or an ADC 12 alloy, pressured die cast aluminium, consisting M6 thread size tapped holes and a 22mm diameter shaft for vertical adjustment. A sound deadening PVC pad, forming part of the pedestal head, shall locate the modular square panel into position. It shall be self-locked into the pedestal base by forces of gravity and restraint with a M6 hexagonal bolt.
- 3.3 Pedestal base shall consist of a threaded M22 diameter steel tube welded to a die formed base plate of 100mm square and with minimum thickness of 3.0mm. A dimple hexagonal nut shall be used for vertical levelling.
- 3.4 Pedestal assembly shall be supplied in electro-zinc plated finish and during installation, the base of the pedestal shall be glued to the sub-floor with fillet adhesive. The type of fillet adhesive and its usage shall be recommended by the manufacturer.
  - \* Specify the appropriate model, refer to page 10
    \*\* Optional supply available on request.