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creating environments



The advantage of suspended ceilings is in their ability to create an aesthetic interior finish while concealing and allowing access to all the services that make an interior space function practically including lighting and air-conditioning and if required optimising acoustics as well.

Pelican Systems Econogrid is designed to meet the most stringent requirements for modern day's complex buildings and is suitable for any suspended ceiling application including offices, retail outlets, hospitals, schools, hotels and restaurants.

Features and Benefits

- High quality hot-dip galvanised steel with pre-painted capping ensuring effectiveness against corrosion and high light reflectance properties
- Positive lock coupling mechanisms with audible click
- Econogrid can be disassembled and reused
- Stepped end cross tees that prevent tee rotation
- Mid-span deflection not exceeding 1/360 of the span length
- Main Tee includes a fire safety feature (see additional information below)
- Main Tees are punched at 100 centres to facilitate versatility for all tile sizes

Econogrid 24mm x 38mm

Description	Size	Qty / Box	Mass / Box (kg)	Coverage / Box	Qty / Pallet	No of Cartons / Pallet	Mass / Pallet (kg)
Main Tee	3.6	25	29.0	105m ²	1500	60	1830
Cross Tee	1.2	50	17.0	35.5m ²	2500	50	860
Cross Tee	0.6	75	12.0	54m ²	7350	98	1280
Wall Angle	3.6	40	21.2	144 lm	3200	80	1785
Shadowline	3.6	40	48.0	144 lm	1600	40	2007



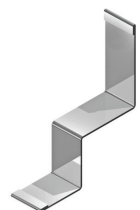
Main Tee



Cross Tee



**Wall Angle
Steel & PVC**



**Shadowline
Steel & Aluminium**

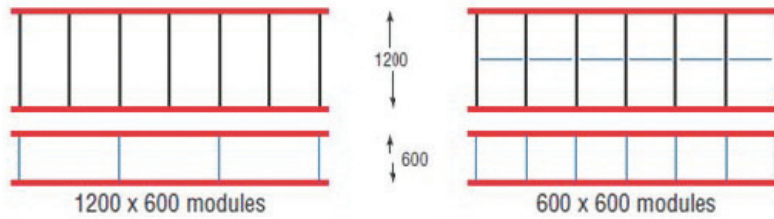
*NOTE: Drawings are not to scale

Fire-Safety

Econogrid Main Tees include a fire punch out as an additional safety feature to facilitate a more controlled collapse of the ceiling in the event of a fire. The punch-out allows expansion of the main tee during a fire which prevents Econogrid from twisting, bending or bowing unpredictably and enables the Econogrid system to tighten and remain intact limiting any collapsing of the ceiling tiles and the creation of gaps in the perimeter thereby assisting in the containment of the fire.

In order to ensure that the fire safety benefits are maximised we recommend the following:-

- Do not install the fire punch outs adjacent to each other, i.e. the punch outs must be spaced 3.6m apart
- Use Hanger wire / strap to suspend the Main Tee through the web holes only
- Do not use bulb convenience holes or suspension clips
- The allowable installation layouts are as per the illustration below



Material Calculations for Econogrid

1200 x 600mm Grid (Exposed)

1. Main tees 3 600mm long at 1 200mm centres, multiply total ceiling area x 0,232 = number of main tees
2. Cross tees 1 200mm long at 600mm centres, multiply total ceiling area x 1,383 = number of cross tees
3. Wall angle = total length of wall divided by 3.6 = number of wall angles
4. Suspension hangers at maximum 1 200mm centres. Total ceiling area divided by 1.25 = number of hangers
5. Pelican Tiles 1200 x 600mm: total ceiling area divided by 0.72 = number of ceiling tiles

600 x 600mm Grid (Exposed)

1. 1,2,3,4 as 1200 x 600mm grid
2. Take the number of 1 200 cross tees and multiply by 1 = 600mm cross tees needed
3. Pelican Tiles 600 x 600mm: Total ceiling area divided by 0.36 = number of tiles

Installation Recommendations

Being part of the decorative finish, the installation of the ceiling needs to take place after services are installed to avoid interference and damage to the grid, especially the white chromodek face. It is advisable to limit the amount of time the grid is stored on site, and ensure that the area is clean and dry.

Special Trims

Pelican Systems has a number of trim sections to assist with special applications.

All of these are white epoxy coated aluminium and are pre-drilled making onsite installation easier.

Description	Material	Colour	Length	Units / Box (kg)	Mass / Box (kg)
Plaster Junction	Aluminium	White	4.0m	10	15.5
Shadow Curve	Aluminium	White	4.0m	20	19.6
Facia Trim	Aluminium	White	4.0m	20	25.6
Flexible Wall Angle	PVC	White	2.4m	50	15.0

Accessories

Burgess Channel - sub grid

Strap Hanger 19mm

Hanger Wire 2.5mm

Glasswool Insulation can be used to improve thermal and acoustic performance

Bill of quantity specification:

Pelican Systems Econogrid exposed Face 24mm (1200 x 600 system).

Supply and install Econogrid white exposed face 24mm tee suspended ceiling grid system. Main tees spaced at 1200mm and cross tees spaced at 600mm (1200 x 600 system). Main tees supported at 1200mm maximum. The installation to be in accordance with SABISA (South African Building Interior Systems Association) installation guidelines.

Pelican Systems Econogrid exposed Face 24mm (600 x 600 system).

Supply and install Econogrid white exposed face 24mm tee suspended ceiling grid system. Main tees spaced at 1200mm and 1200mm cross tees spaced at 600mm with 600mm cross tees spaced between 1200mm cross tees at 600 centres (600 x 600 system). Main tees supported at 1200mm maximum. The installation to be in accordance with SABISA (South African Building Interior Systems Association) installation guidelines. Find this spec on Autospec and CCN

Warranty

A ten year system warranty is applicable if installed in accordance with SABISA (South African Building Interior Systems Association) installation guidelines.



Pelican Systems is an ISO 9001:2008 certified company (certified from 2005)