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## NEWS

### Aluminium and Glass Juliet

11/10/2015 13:38:28

Selfbuilders in the UK are choosing to install French doors with glass Juliet balcony, or external glass balconies, as attractive and functional design features.

[Blog](#)

## REVIEWS

### New build at Ledbury



20 December 2014

Our new build at Ledbury occupies a hillside setting with commanding views over the Herefordshire countryside. The design aimed to maximise...

## PROJECTS

### Loft Juliet Balcony in London



Balcony Systems Solutions Ltd supplied a clear glass Juliet balcony for a South London family whose major home extension project was featured on Channel 4's Double Your House for Half the Money with Sarah Beeny. >>

considered. The loads on privacy screens are A LOT larger than on [balcony rails](#), and will require stronger elements to resist these loads – namely stronger posts with bigger base plates.

All the information and data herein related to screens that are up to 5.4m long. The reason for this is that screens that are over this length will require a greater loading factor.

We have modified some elements of our proprietary Balcony 1 System so that our solution is able to withstand and conform to the loading required. Here is what we have done:

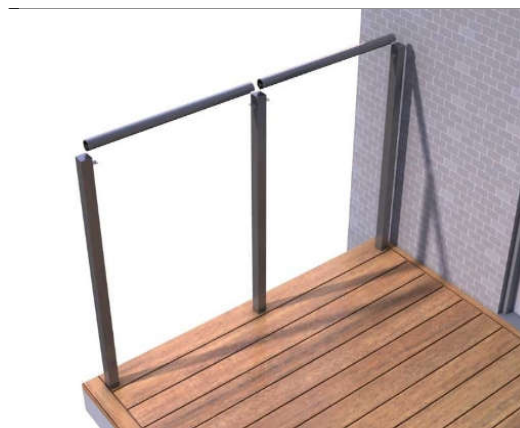
\* We have introduced a new primary post that is made from a 60 X 60 X 5 SHS (square hollow section) with a 20mm thick base plate 300mm X 225mm



\* This primary post is sheathed by a new Aluminium sleeve post which is 72 X 72mm



\* As normal the handrail will be fixed between these new posts



\* Glass on screens must be fixed on all 4 sides so we must run a bottom rail on the VERTICAL posts as well

## Retirement Village Juliets



Castleoak, a leading care sector development and construction company, specified clear glass Juliette balconies from Balcony Systems for its latest care project to make the most of magnificent lakeside views in South Lanarkshire. >>



\* We have limited these screens to a maximum height of 1.8m

### Geographical parameters

Not all areas in the UK will require the same parameters and so we have divided the calculations into 3 different options – each category will permit a different MAXIMUM post distance.

In order to know which one will fit a particular site we need to ascertain the following parameters:

#### THINGS TO ASCERTAIN:

1. The area the job is in in terms of basic wind speed. On each calculation there is a map of the UK with basic wind speeds (Show figure 6 on P3 of basic wind speeds in UK).
2. Altitude of site
3. Effective height of the building
4. Distance of the site from the sea

The calculations and parameters are as follows:

#### For Maximum post spacings of 1.5m

Sites at an altitude of 50 metres or less above sea level within the 23 m/sec basic wind speed area, examples of the different types of terrain and height of buildings for which this system is suitable are as follows:

- (a) Any coastal, country, or town location where the effective building height is 9 metres or less.
- (b) Sites in town or country areas 10 km or more from the sea where the effective building height is 12 metres or less.
- (c) Town sites 100 km or more from the sea, with an effective building height of 19m or less.

#### For Maximum post spacings of 1.2m

Sites at an altitude of 100 metres or less above sea level within the 25 m/sec basic wind speed area, examples of the different types of terrain and height of buildings for which this system is suitable are as follows:

- (a) Any coastal, country, or town location where the effective building height is 7 metres or less.
- (b) Sites in town or country areas 10 km or more from the sea where the effective building height is 8 metres or less.
- (c) Town sites 100 km or more from the sea, with an effective building height of 14m or less.

#### For Maximum post spacings of 1.0m

Sites at an altitude of 100 metres or less above sea level within the 25 m/sec basic wind speed area, examples of the different types of terrain and height of buildings for which this system is suitable are as follows:

- (a) Any coastal, country, or town location where the effective building height is 19 metres or less.
- (b) Sites in town or country areas 10 km or more from the sea where the effective building height is 20 metres or less.
- (c) Town sites 100 km or more from the sea, with an effective building height of 30m or less.

### Implementation or installation procedure:

The primary posts should be fixed down to the structure in the early stage so that the base plates are covered by the finished floor.

Once floor is finished the 72 X 72 posts slide onto the primary posts giving a maximum height of 1.8m for the screen.

The handrails are fixed between the posts.

Bottom rail is fixed on the floor and on the heights of the posts – also fixing the 72 X 72 post to the primary post.

The glass is then placed into position with temporary beads on all 4 sides.

Silicone is applied to all 4 sides of the glass.

Once silicone is dry the full length beads are replaced and glazed with 3mm rubber.

This solution of privacy screen can also allow combining a regular [balcony balustrade](#) with a screen by the placement of a corner 72 X 72mm post



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