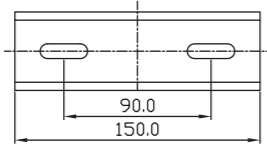


## Components list for F-C-1/F-C-2



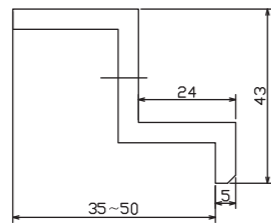
373-70232-00 Rail Connector



- Material: hot dip galvanized steel Q235B
- Connecting two steel rails nearby



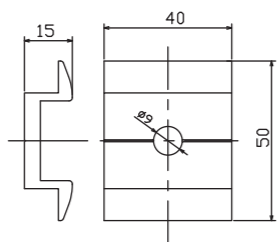
End Clamp 30mm-50mm



- Material: hot dip galvanized steel Q235B
- Fixing modules, suitable for modules of thickness ranging from 35mm to 50mm



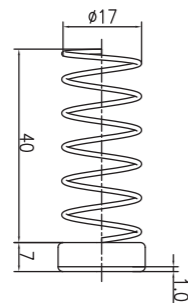
318-73003-00 Middle Clamp - A01



- Material: AL6063-T6
- Fixing modules, suitable for modules of thickness ranging from 35mm to 50mm



412-06020-00 Spring Nuts



- Material: hot dip galvanized steel Q235B

## Flat Roof Mounting System Mechanical Parameters

### I、Load Parameters

The intensity, stiffness and stability have direct relation with the cross section and modules' stress has direct connection with deformation and span. The table below is the result of loading capacity according to GB50009-2001(building code) parameters.

#### 1、Spanning from 2000mm to 2400mm load parameters:

Parameters Section	Wind Load(kn/㎡)	Wind Speed(m/s)	Snow Load(kn/㎡)	Installation Angle
41x41x2	0.8	30	0.8	fixed
41x62x2	1.2	35	1.0	fixed

#### 2、Spanning from 2400mm to 3000mm load parameters:

Parameters Section	Wind Load(kn/㎡)	Wind Speed(m/s)	Snow Load(kn/㎡)	Installation Angle
41x62x2	0.8	30	0.8	fixed
41x82x2	1.2	35	1.0	fixed

**Notes:** The data above are applied for rail parts of mounting system. Others are required to be calculated based on specific situation by engineers.

### II、Ballast List

Wind load has negative pressure upon front and back modules, which produces upward force upon the whole mounting system. Therefore, it demands force analysis and proper configurations, achieving safety, solidity and stability. Load parameters are as below:

Wind Speed(m/s)	≤20	25	30	35
Ballast(kg)	40	70	110	160

**Notes:** Such mounting system spans 1200mm, and kg is the unit of the ballast for each module.

### III、Tightening torque for screws

SUS304 or galvanized steel are raw materials of screws.

The tightening torque of screws are requested for practical needs. Data of tightening torque can be referred to the table below.

Specification	M8	M10	M12	M14
Locking torque (Nm)	12~15	15~20	20~30	30~40