

# HILTI

**Integrated  
floor system**

## **One system does it all.** Efficient installation of raised floor systems.

The simple yet highly efficient Hilti MQ support system takes control room installation into a new dimension: One system provides cabinet support, cable tray management and floor tile support. This not only minimizes planning but also provides greater versatility and adjustability to suit all configurations. Moreover the Hilti MQ support system speeds up the process of installing control room floors significantly.



**Faster and smarter.**

**Hilti. Outperform. Outlast.**

## **Boosts productivity all the way from planning to installation.**

### **Quick and easy ①**

Parts simply click together during initial assembly by means of push-button fasteners, adding to efficiency and productivity. Slidable connector nuts ease the installation of any component.

### **Flexibility**

Changes and on-site add-ons remain possible at any time, with very little planning effort.

### **Easy to plan**

Standardized components and CAD modeling support speed up the design process. Maximum safety is assured by well-thought-out modeling using Hilti design software. Consulting and engineering support is provided by Hilti specialists whenever needed.

### **One for everything**

System integrates support for cabinets, floor tiles and cable trays.

### **No welding - less risk ②**

Channels are connected by two- and three-dimensional connectors that require no welding. No hot work means less risk and no need for extensive preparatory and finishing work.

### **Lightweight and sustainable**

The modular components are more than 30 percent lighter than welded steel structures and can be reused in reconstruction.

### **More space ③**

A wider span between posts provides additional space for cable tray routing. Posts can be fastened on concrete and steel.



Supporting floor tiles

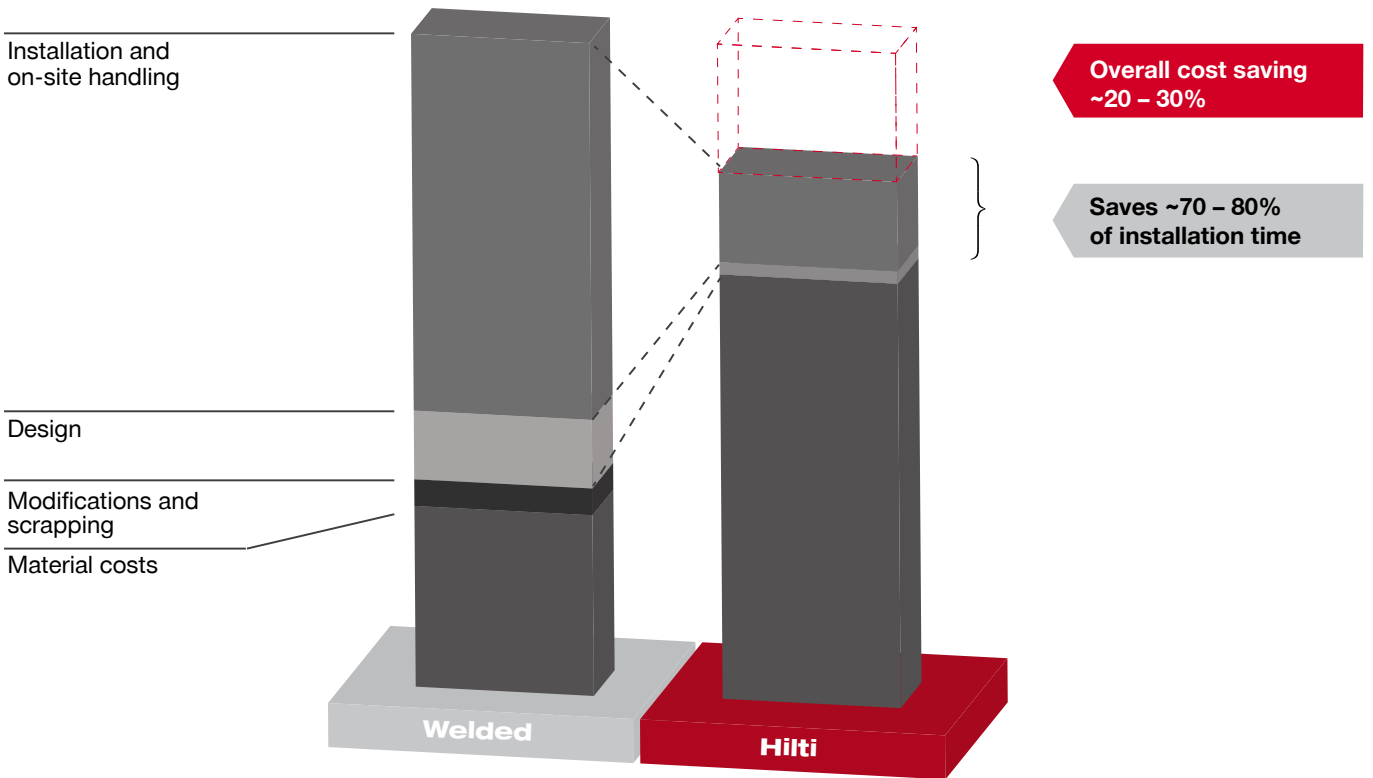


Fastening cable trays



Fastening cabinets

**Up to four times faster - cuts total costs by up to 20 percent.**



Welded structure versus Hilti system.

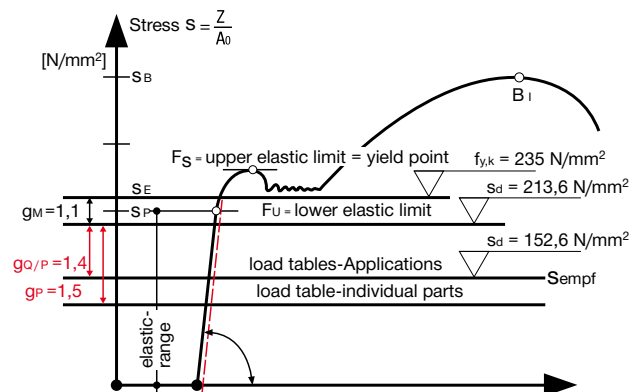
## Performance data

### Support system

Material	Cold-formed steel
Yield stress	235 MPa (34 ksi)
Surface	Hot-dip galvanized (55µm ~ 70µm)/SS
Steel thickness	2 mm / 3 mm
Weight of long members	1.4 kg/m - 9.8 kg/m

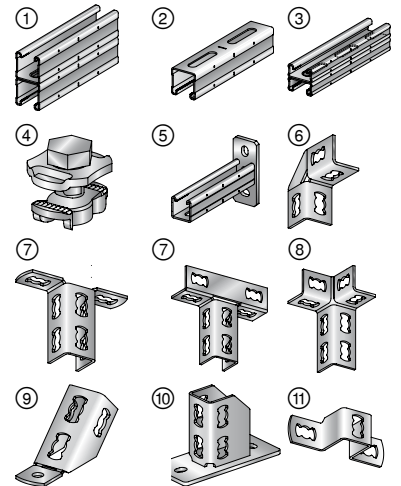
### Design method

Safety factors	1.1 for allowable stress
	1.4 for allowable loads for applications
	1.5 for all connectors
Code	Euro Code EC3, DIN18800
Deflection criteria	L/200 for simply supported spans,
	L/150 for cantilevers



**System parts**

MQ 41 D double channel	①
MQ 41 single channel	②
MQ 21 D double channel	③
MQN connector	④
MQ 41/300 bracket	⑤
90° angle	⑥
2D angle	⑦
3D angle	⑧
45° base connector	⑨
Channel base	⑩
Channel connector	⑪



**Connection to concrete**

Segment anchor	⑫
Rotary hammer drill	⑬



**Connection to primary steel**

X-BT threaded studs for use on steel	⑭
Powder-actuated fastening tool	⑮



**Productivity plus**

With Hilti tools that save you time.



Laser range meters for easy, accurate distance measurement



Rotating lasers for easy, accurate leveling and alignment



Rugged reciprocating saws for cutting materials of virtually any kind

**Hilti. Outperform. Outlast.**