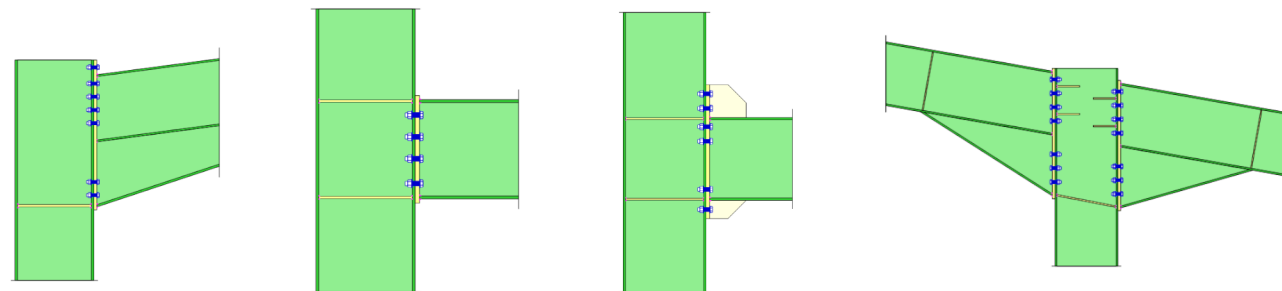


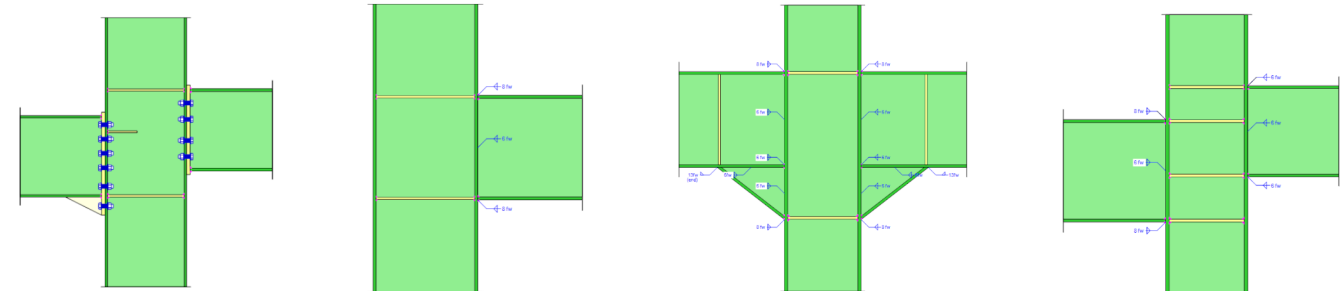
## M O M E N T   C O N N E C T I O N S   # 1   -   S I M P L E   C O N N E C T I O N S   -   B R A C I N G   C O N N E C T I O N S




### Eaves or beam-to-column flange

#### Bolted moment end-plate

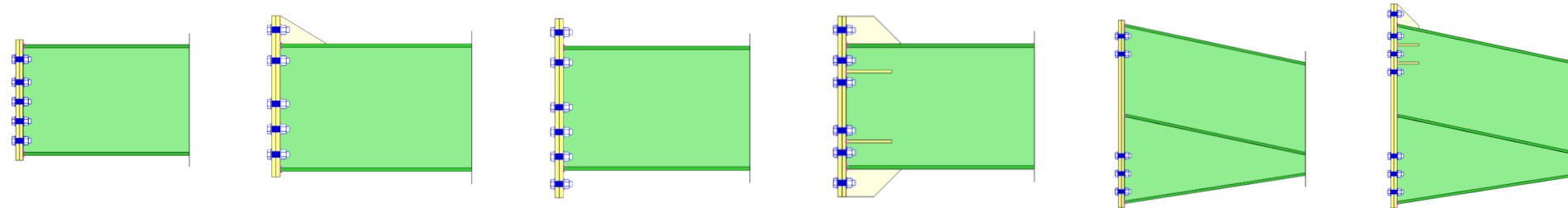





#### Shop welded



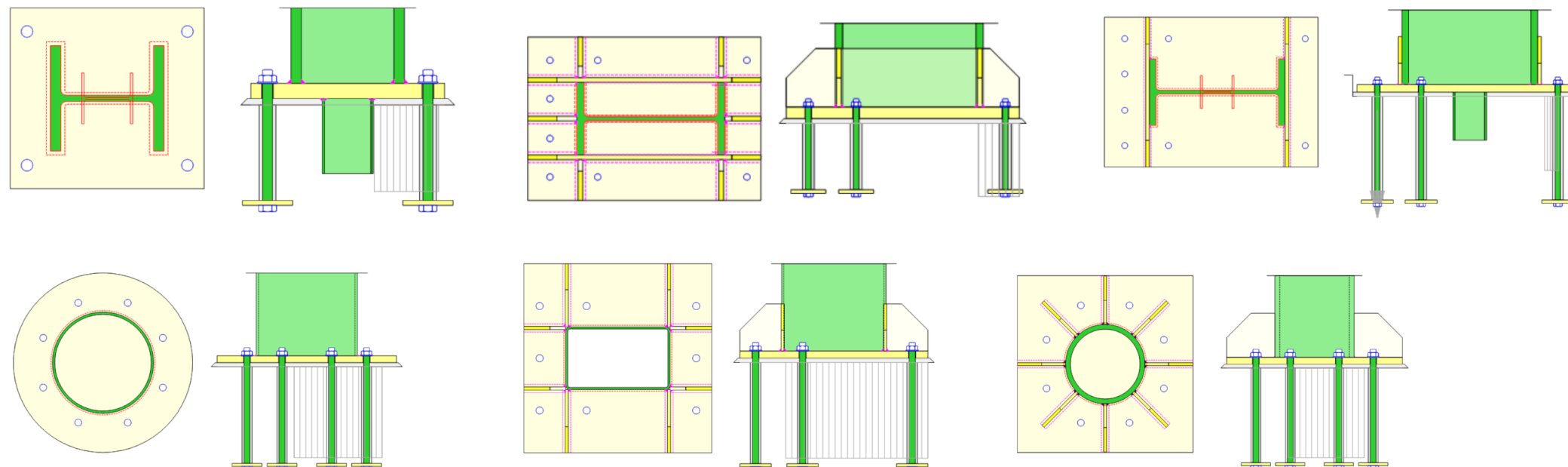
Section types  
 UB, UC, IPE  
 HEA, W...  
 Built-up I  
 Asymmetric







### Apex or beam-to-beam end-plated splice



Section types  
 UB, UC, IPE  
 HEA, W...  
 Built-up I  
 Asymmetric

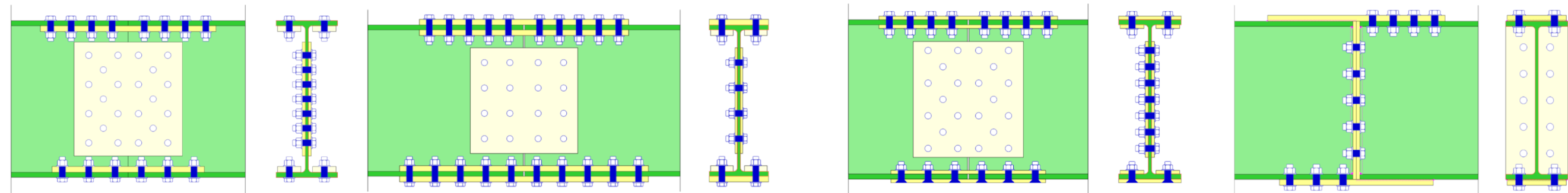
### Base-plates (slab and stiffened)



Section types  
 UB, UC, IPE  
 HEA, W...  
 Built-up I  
 Asymmetric  
 SHS  
 RHS  
 CHS

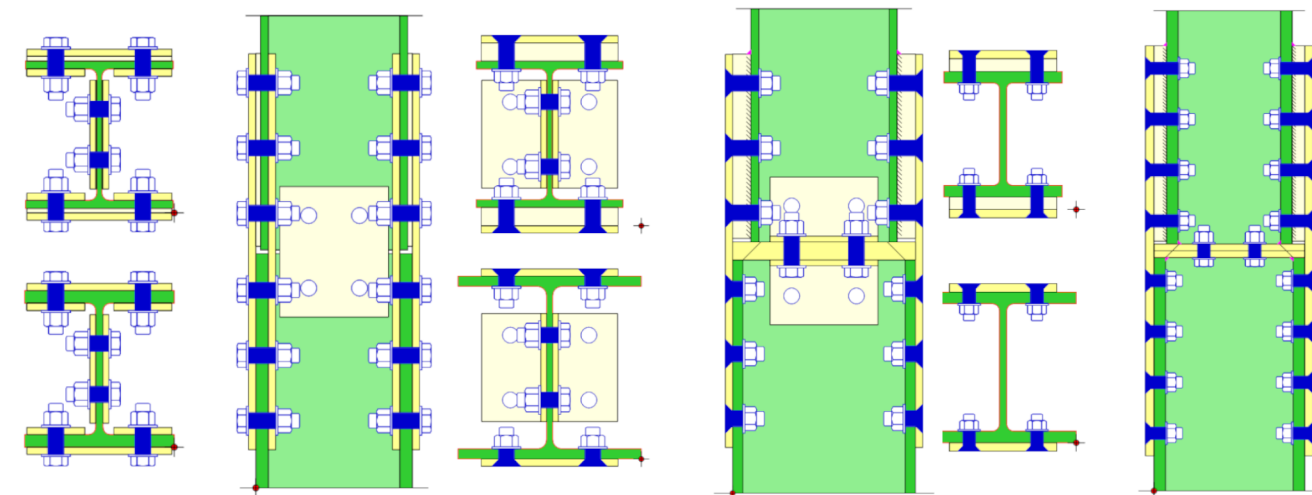
# MOMENT CONNECTIONS # 2 - SIMPLE CONNECTIONS - BRACING CONNECTIONS

Beam splice



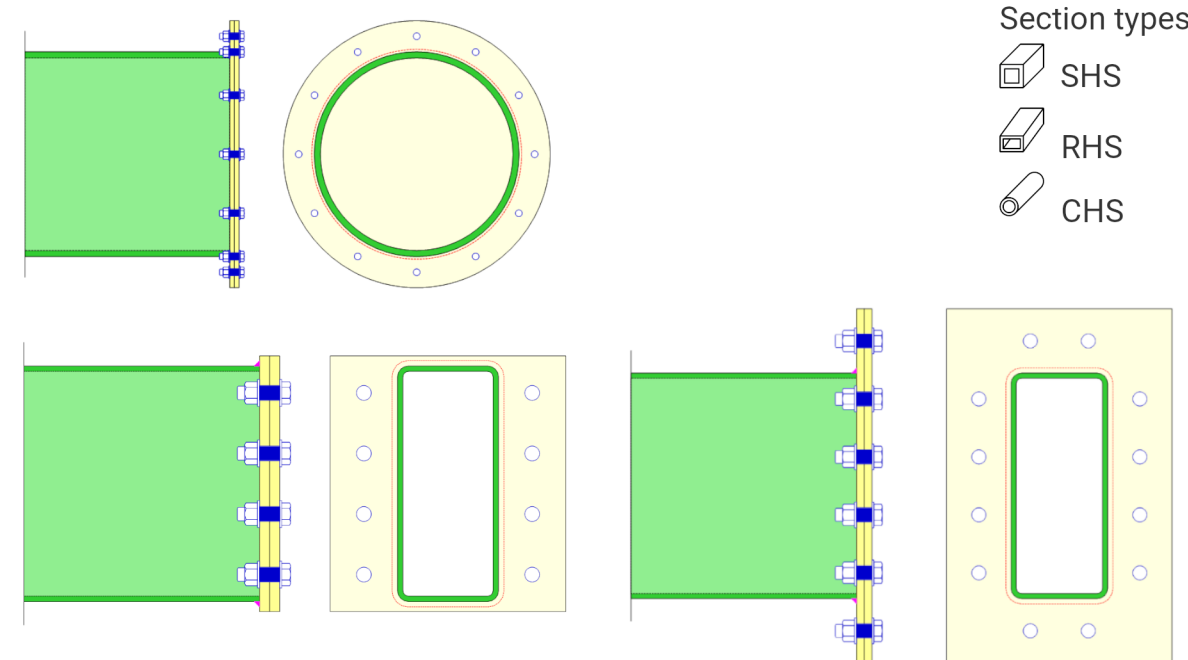
- Section types
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric

Column splice



- Section types
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric

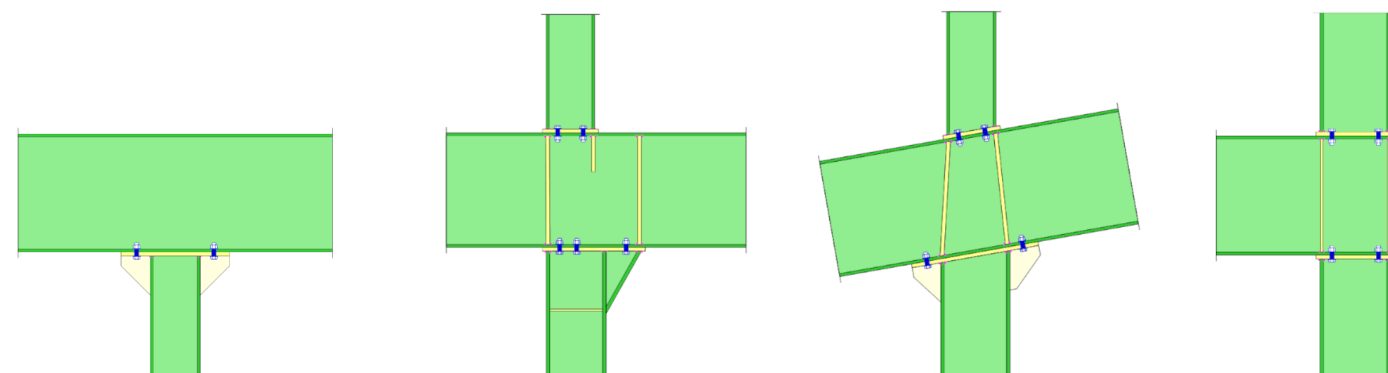
Hollow Splice



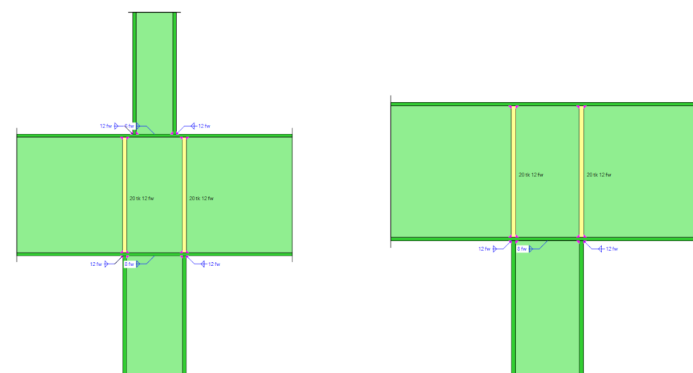
- Section types
- SHS
  - RHS
  - CHS

Column-to-beam (above and/or below)

Bolted moment end-plate



Shop welded

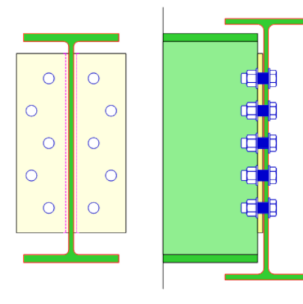
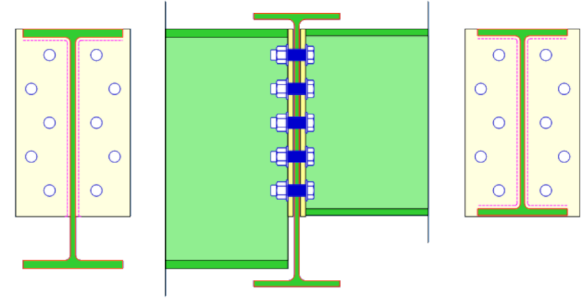
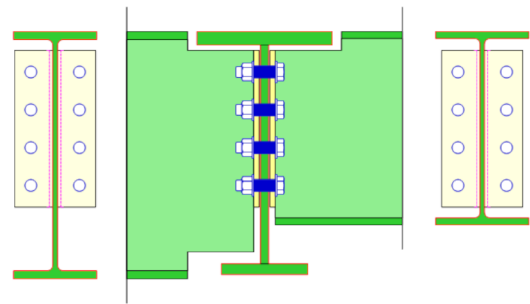


- Section types
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric

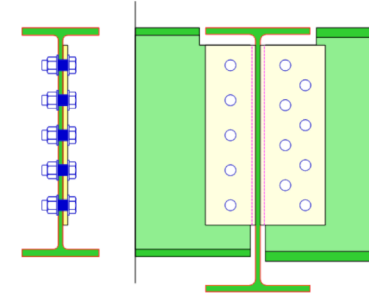
# M O M E N T   C O N N E C T I O N S   -   S I M P L E   C O N N E C T I O N S   -   B R A C I N G   C O N N E C T I O N S

## Beam-to-beam web (shear)

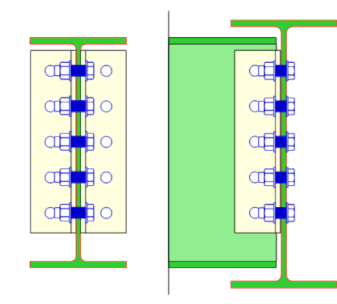
### Flexible end-plate



### Fin-plate



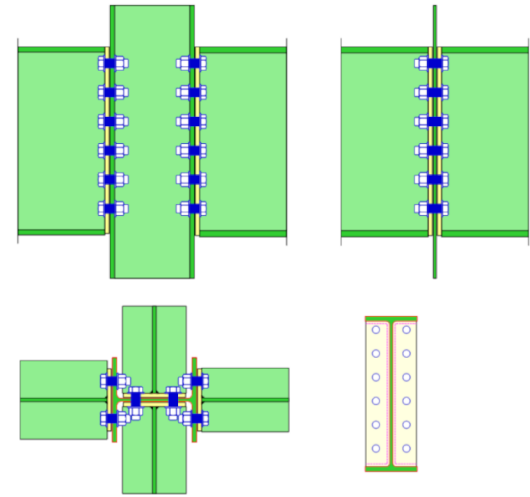
### Web angle-cleats



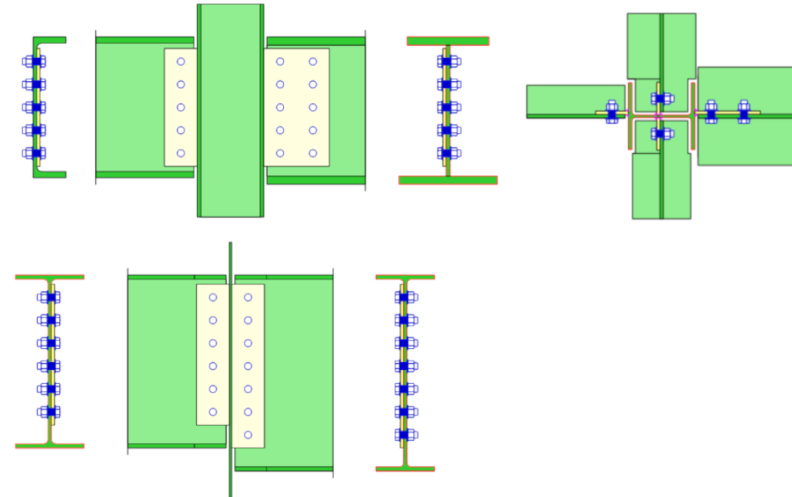
- Beam sections
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric
  - RSC, PFC, UPN...

## Beam-to-column flange and web (shear)

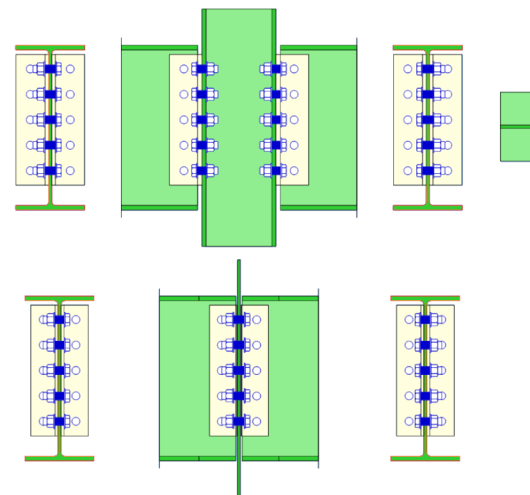
### Flexible end-plate



### Fin-plate



### Web angle-cleats



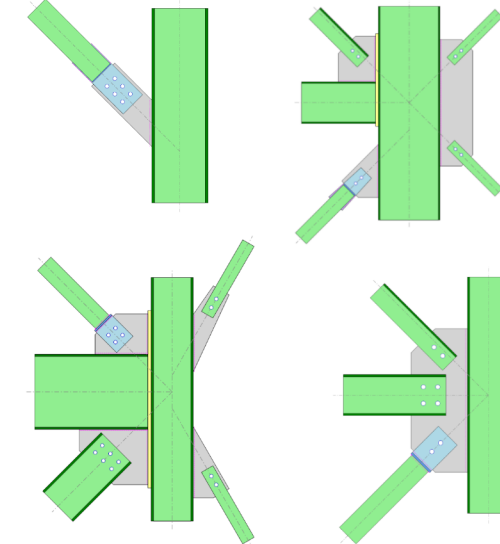
- Beam sections
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric
  - RSC, PFC, UPN...

- Column sections
- UB, UC, IPE  
HEA, W...
  - Built-up I
  - Asymmetric
  - SHS\*
  - RHS\*
  - CHS\*

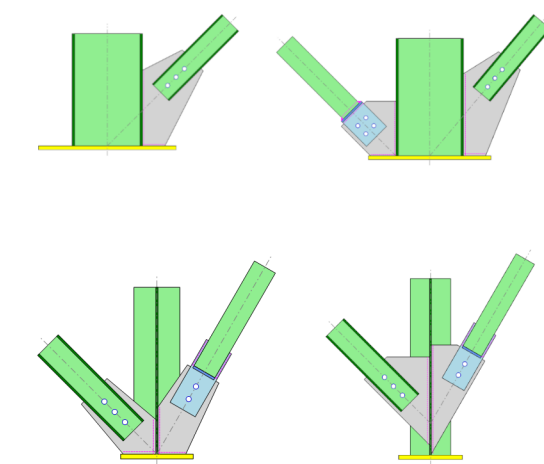
\* only for fin-plate connection

## Bracing connections

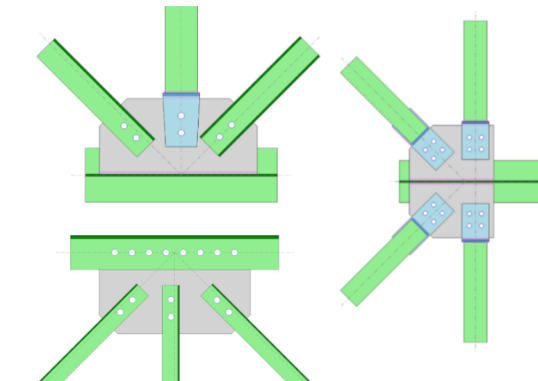
### Vertical bracing to column



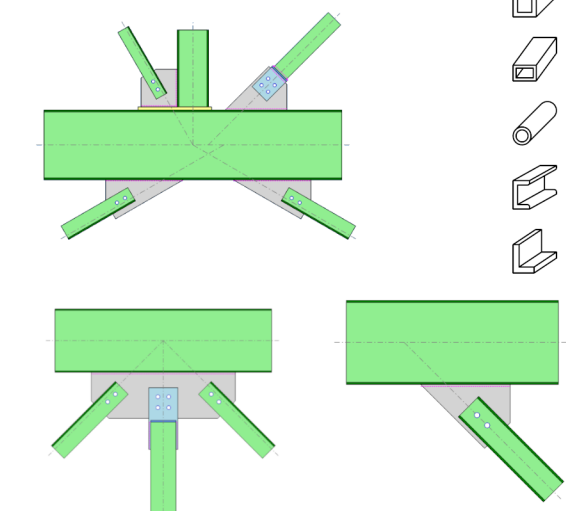
### Vertical bracing to base-plate



### Horizontal bracing to beam



### Vertical bracing to beam



- Brace sections
- SHS
  - RHS
  - CHS
  - RSC, PFC, UPN...
  - L or angle
  - Flat

- Supporting member sections
- UB, UC, IPE, HEA, W...
  - Built-up I
  - Asymmetric
  - SHS
  - RHS
  - CHS
  - RSC, PFC, UPN...\*
  - L or angle\*

\* only for bracing to beam connection