

FlexGuard

FlexGuard Installation Guide



CONTENT

FlexGuard Sentinel SL130/SL168	1
FlexGuard Sentinel SL190	5
FlexGuard High-Safe HS130	9
FlexGuard High-Safe HS168	14
FlexGuard Mid-Safe MS130	20
FlexGuard Mid-Safe MS168	25
FlexGuard Low-Safe LS130	31
FlexGuard Low-Safe LS168	36
FlexGuard Anchor AC110	42
FlexGuard Anchor AC190	48
FlexGuard Dockgate DG168	54
FlexGuard Armor AR80/AR100	62

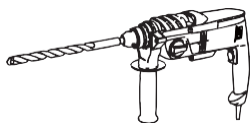
SL130 / SL168

FLEXGUARD SENTINEL



FlexGuard Sentinel – SL130 / SL168

1. Tools Required



Hammer Drill (Φ16mm)



Impact Driver(16mm)



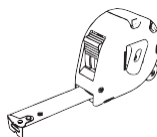
Vacuum Cleaner



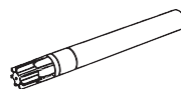
Torque wrench (16mm)



Hammer



Tape Measure



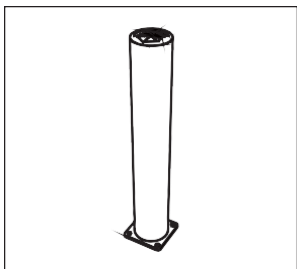
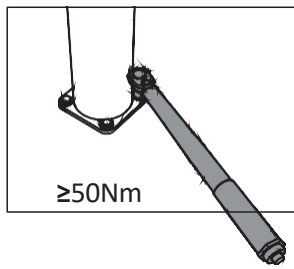
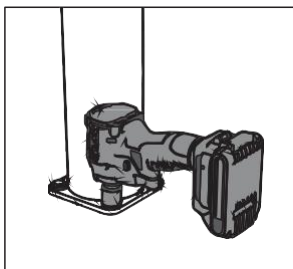
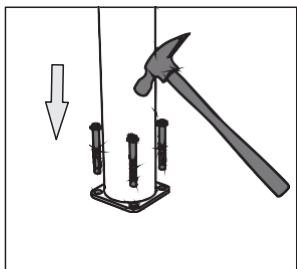
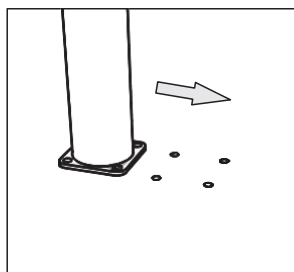
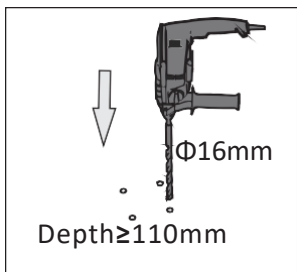
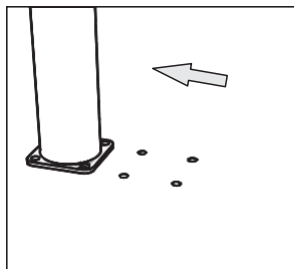
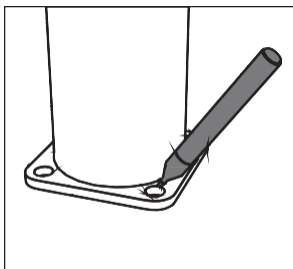
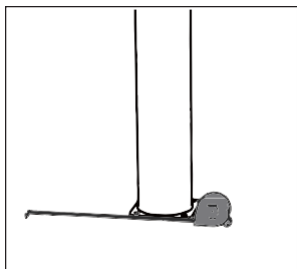
Marker

2. Components



4X

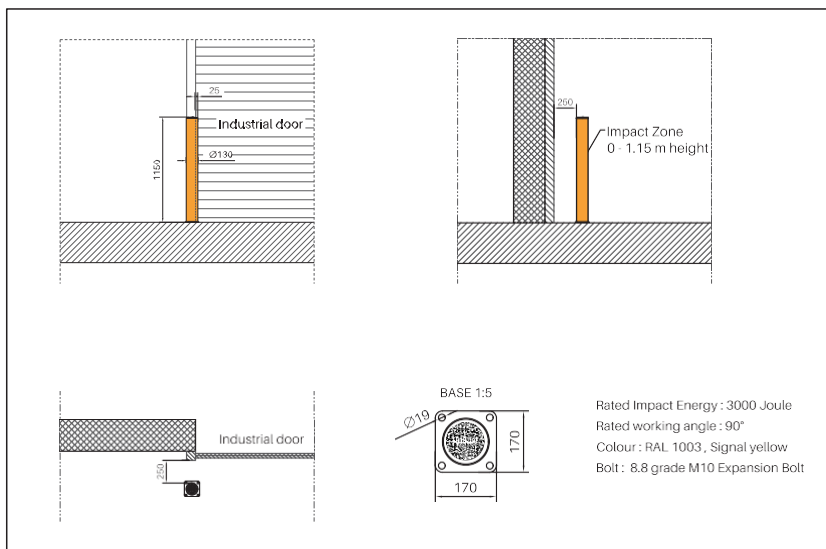
3. Installation



4. Dimensions

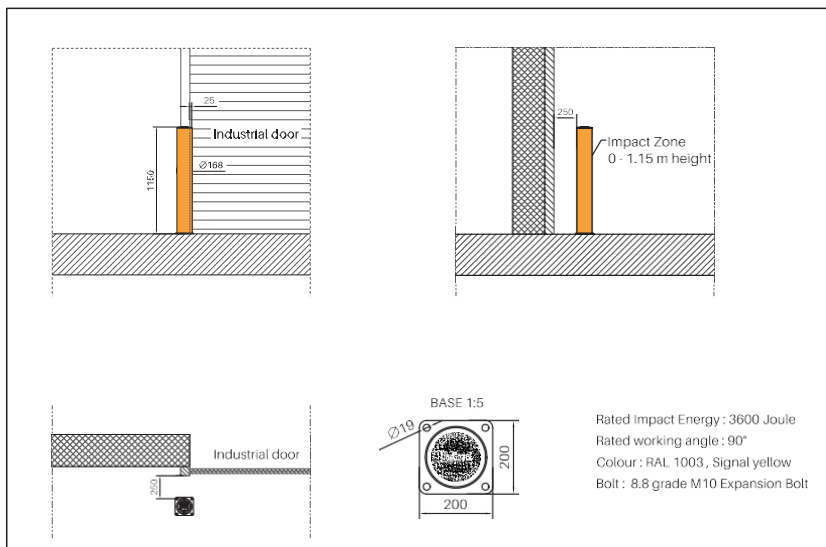
4.1 FlexGuard Sentinel SL130

Dimensions (mm)



4.2 FlexGuard Sentinel SL168

Dimensions (mm)



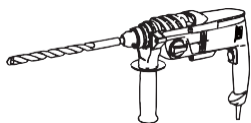
SL190

FLEXGUARD SENTINEL



FlexGuard Sentinel – SL190

1. Tools Required



Hammer Drill (Φ18mm)



Impact Driver(18mm)



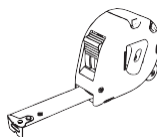
Vacuum Cleaner



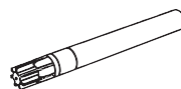
Torque wrench (18mm)



Hammer



Tape Measure



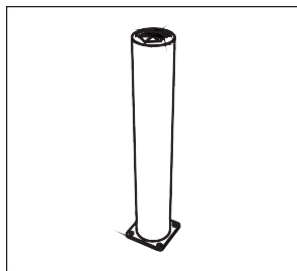
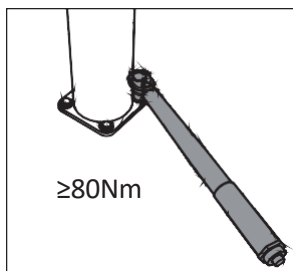
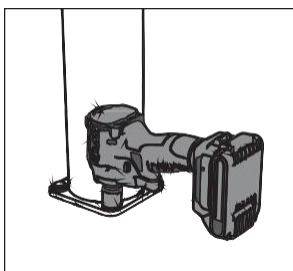
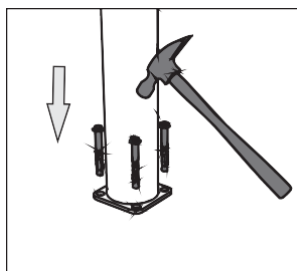
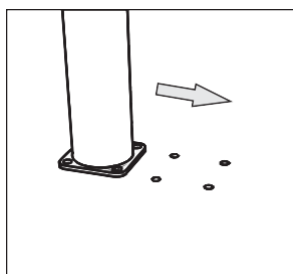
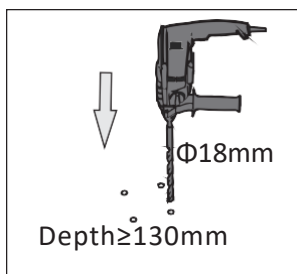
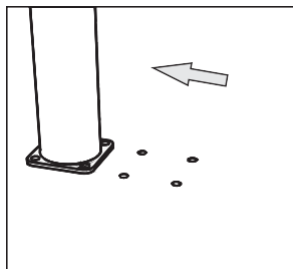
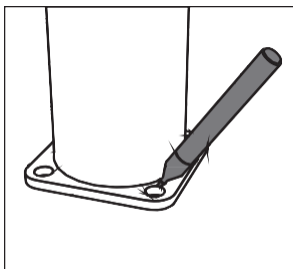
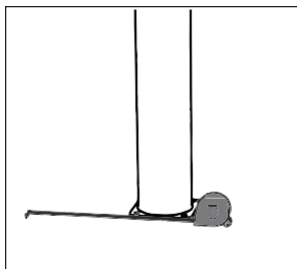
Marker

2. Components



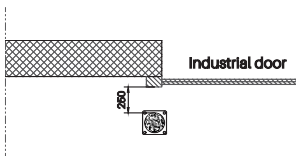
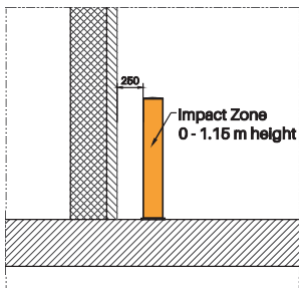
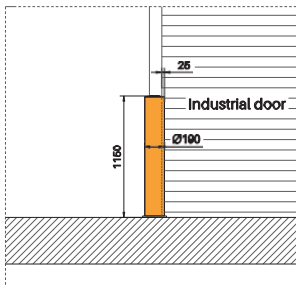
4X

3. Installation

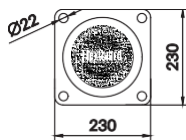


4. Dimensions

Dimensions (mm)



BASE 1:5



Rated Impact Energy : 6900 Joule
Rated working angle : 90°
Colour : RAL 1003 , Signal yellow
Bolt : 8.8 grade M12 Expansion Bolt

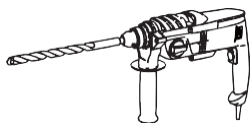
HS130

FLEXGUARD HI-SAFE



FlexGuard High-safe – HS130

1. Tools Required



Hammer Drill (Φ16mm)



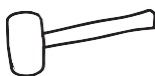
Impact Driver(16mm)



Vacuum Cleaner



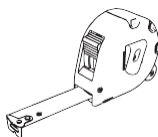
Torque wrench (16mm)



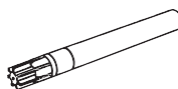
Rubber Mallet



Hammer



Tape Measure



Marker

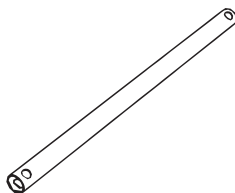


Allen Key (6mm)

2. Components



2X



3X



2X



6X



6X



2X



6X



6X

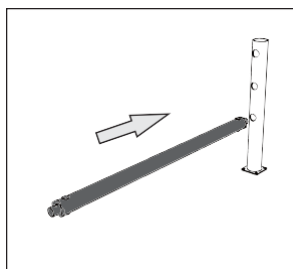
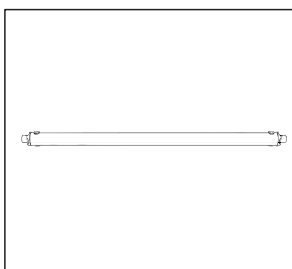
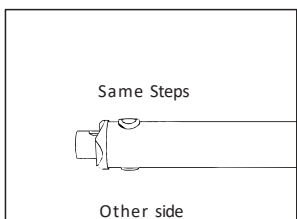
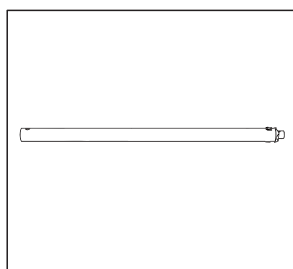
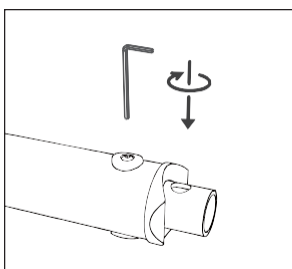
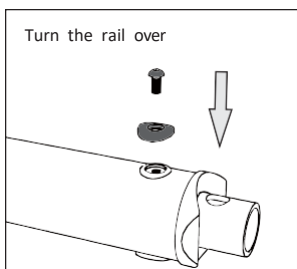
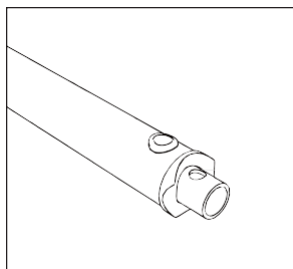
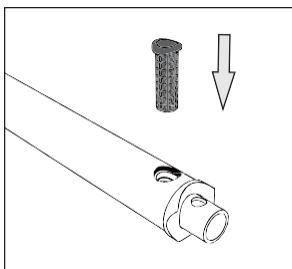
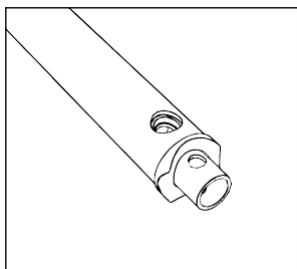
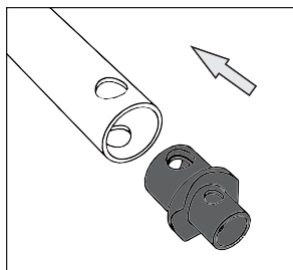
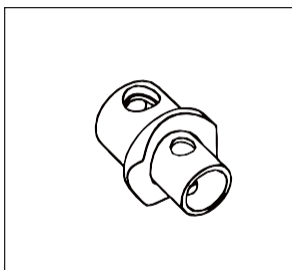
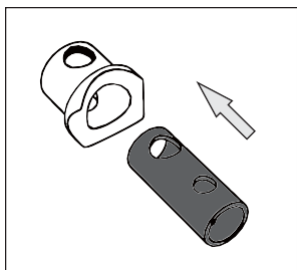


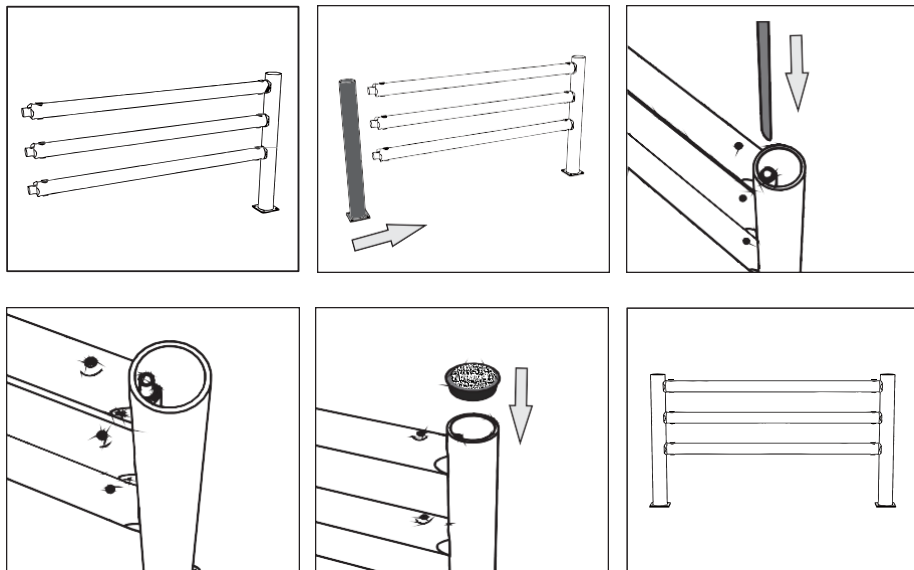
6X



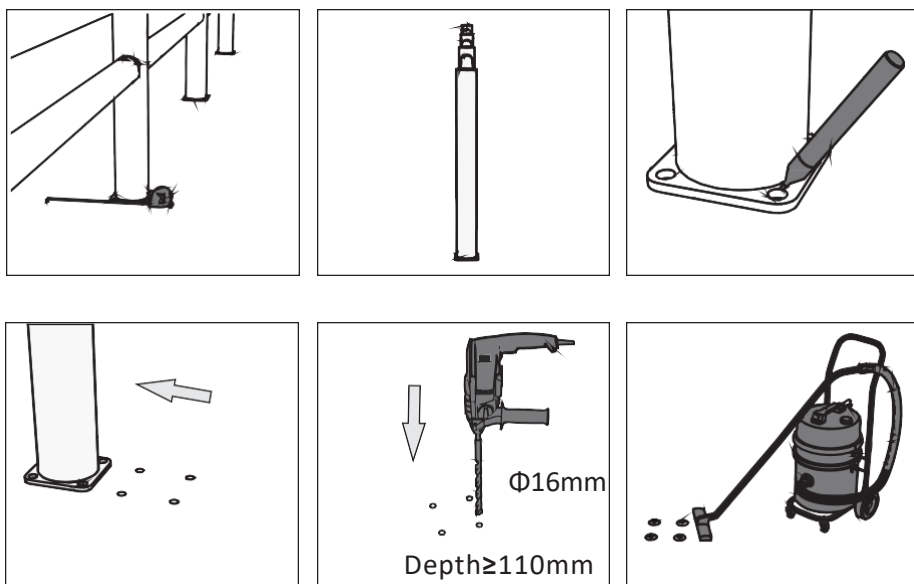
8X

3. Assemble

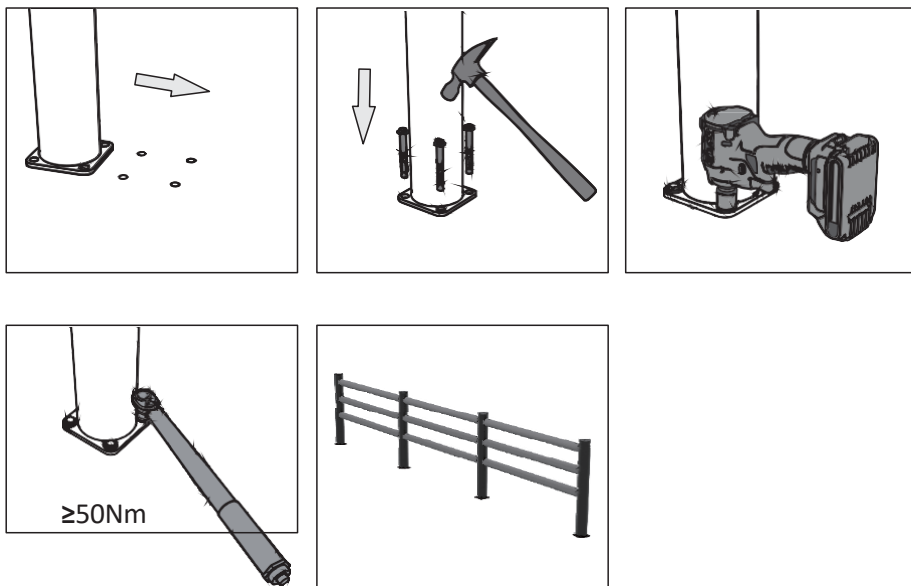




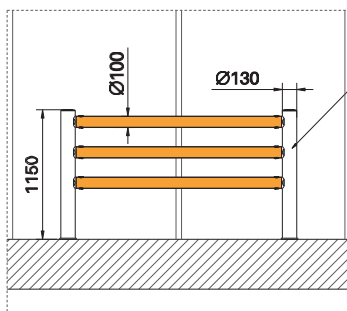
4. Installation



FlexGuard High-safe – HS130

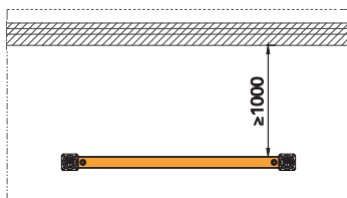
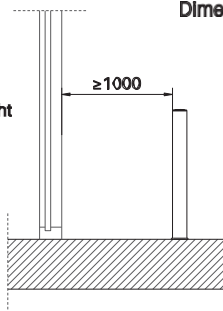


5. Dimensions

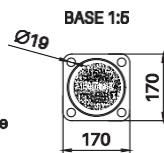


Impact Zone
0.45 - 1.1 m height

Dimensions (mm)

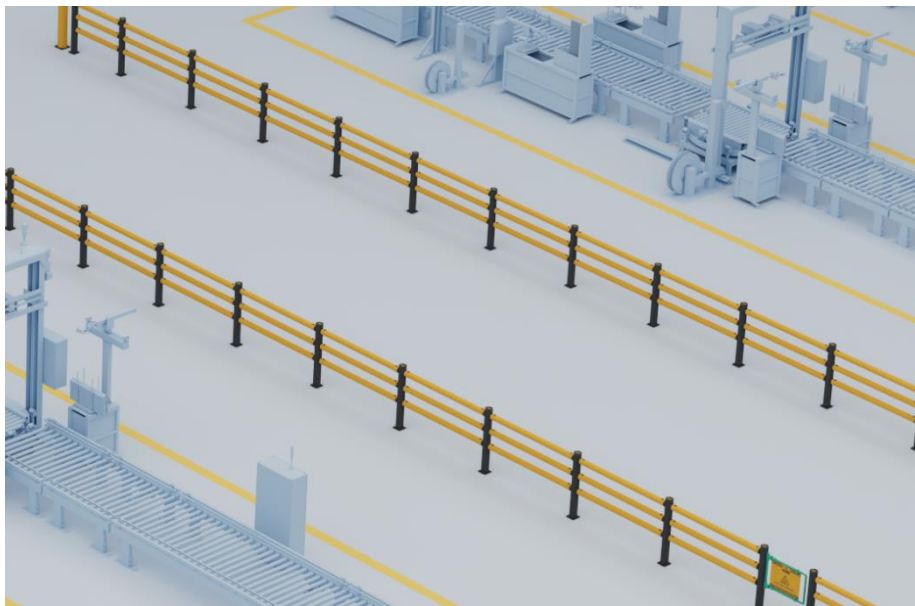


Rated Impact Energy : 8100 Joule
Rated working angle : 45°
Post : RAL 9005, Jet black
Rail : RAL 1003, Signal yellow
Bolt : 8.8 grade M10 Expansion Bolt



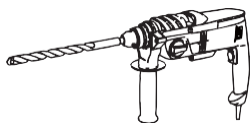
HS168

FLEXGUARD HI-SAFE



FlexGuard High-safe – HS168

1. Tools Required



Hammer Drill (Φ16mm)



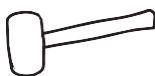
Impact Driver(16mm)



Vacuum Cleaner



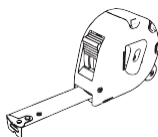
Torque wrench (16mm)



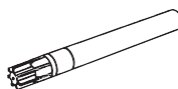
Rubber Mallet



Hammer



Tape Measure

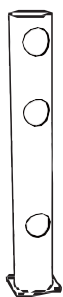


Marker

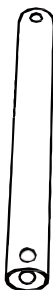


Allen Key (6mm)

2. Components



2X



1X



2X



2X

connector



2X



2X



2X



2X



4X

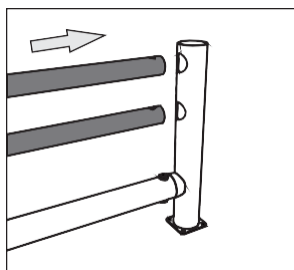
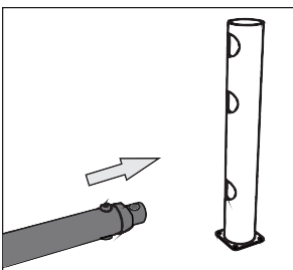
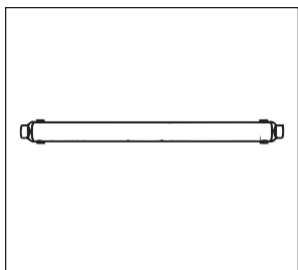
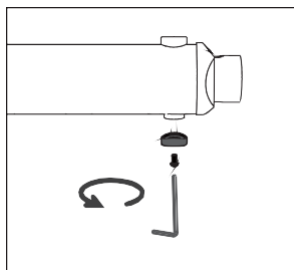
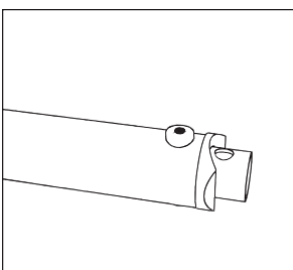
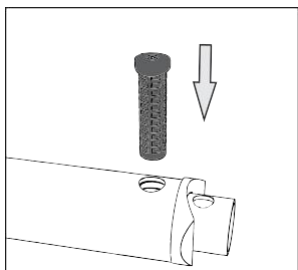
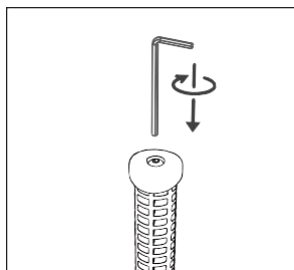
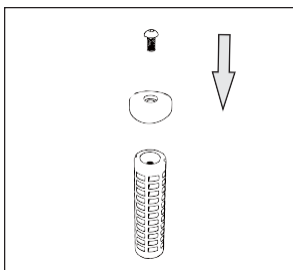
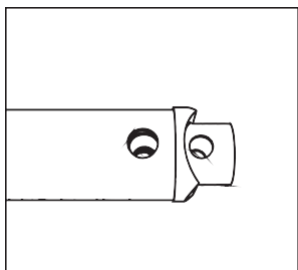
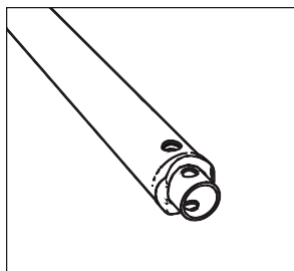
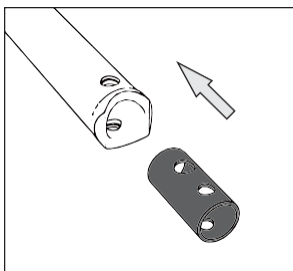
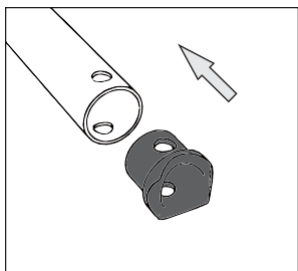


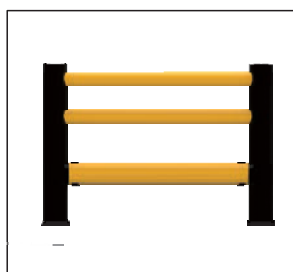
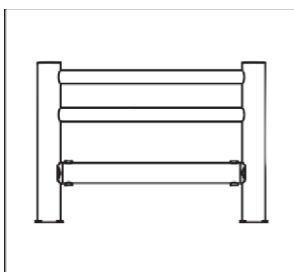
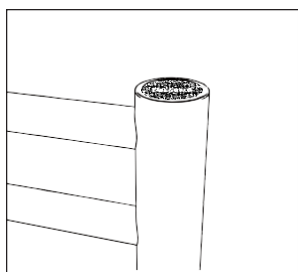
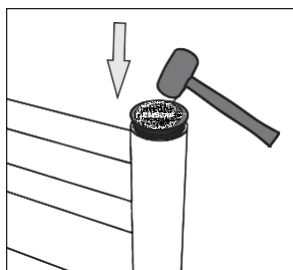
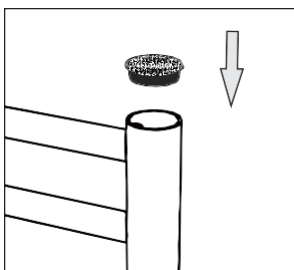
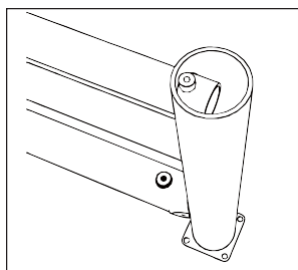
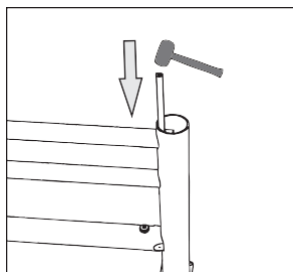
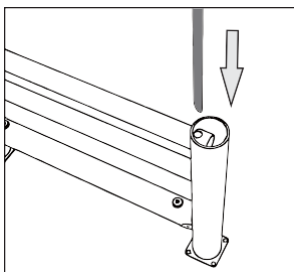
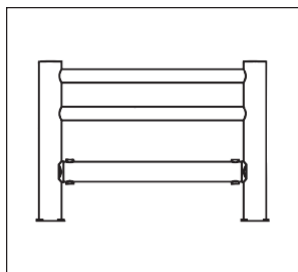
4X

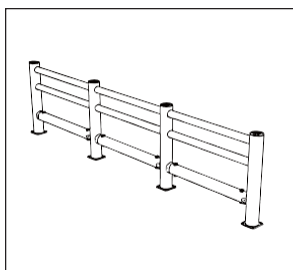
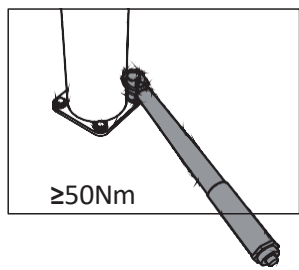
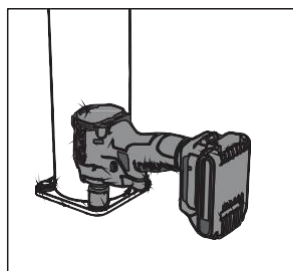
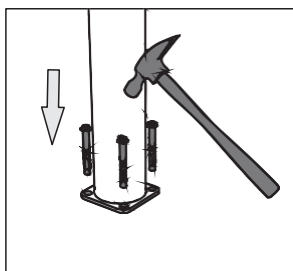
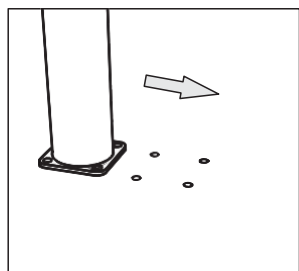
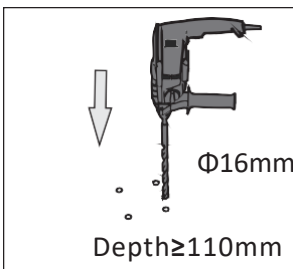
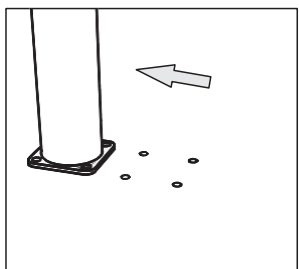
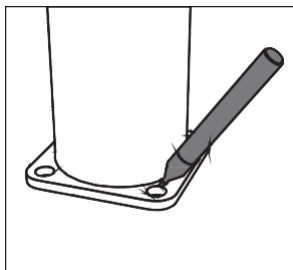
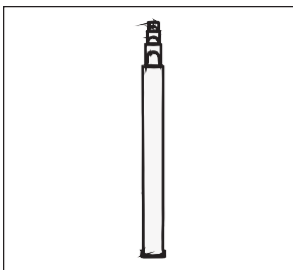
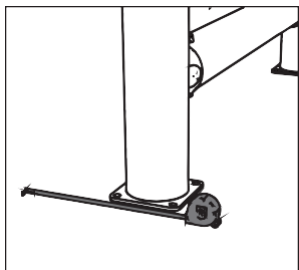


8X

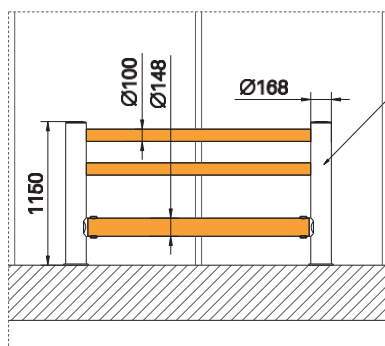
3. Assemble



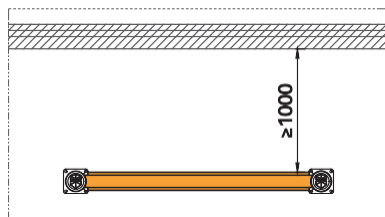
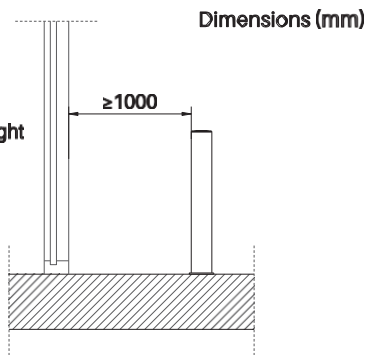




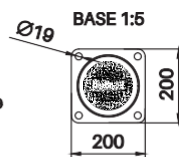
4. Dimensions



Impact Zone
0.226 - 1.1 m height

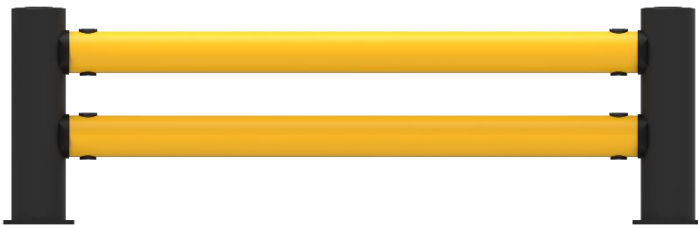


Rated Impact Energy : 14400 Joule
Rated working angle : 45°
Post : RAL 9005 , Jet black
Rail : RAL 1003 , Signal yellow
Bolt : 8.8 grade M10 Expansion Bolt



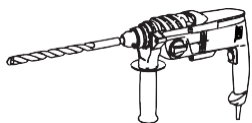
MS130

FLEXGUARD MID-SAFE



FlexGuard Mid-safe – MS130

1. Tools Required



Hammer Drill (Φ16mm)



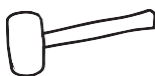
Impact Driver(16mm)



Vacuum Cleaner



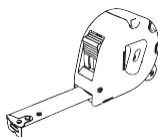
Torque wrench (16mm)



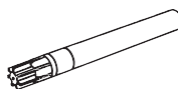
Rubber Mallet



Hammer



Tape Measure



Marker

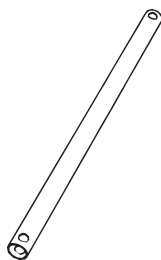


Allen Key (6mm)

2. Components



2X



2X



2X



4X



4X



2X



4X



4X

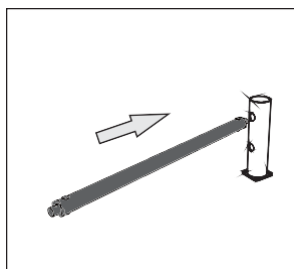
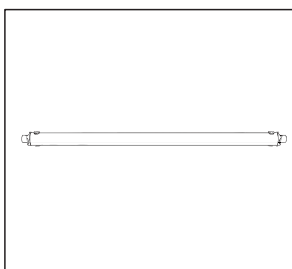
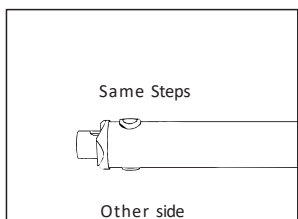
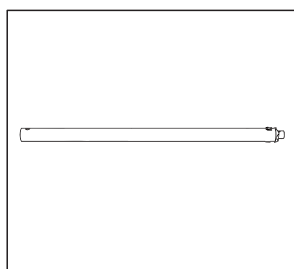
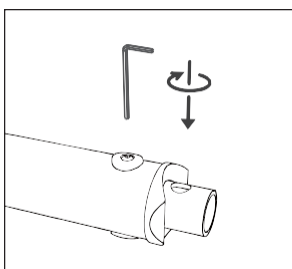
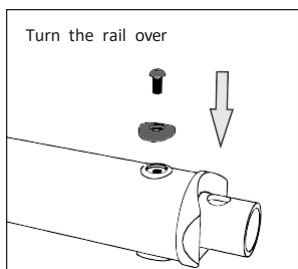
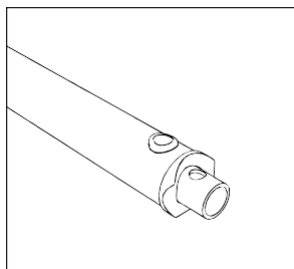
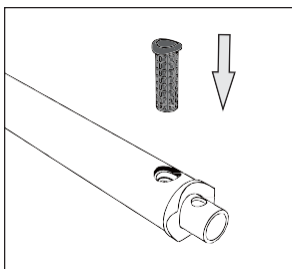
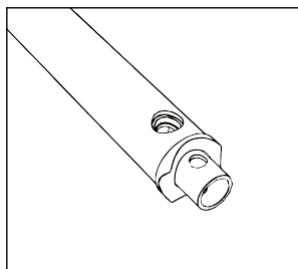
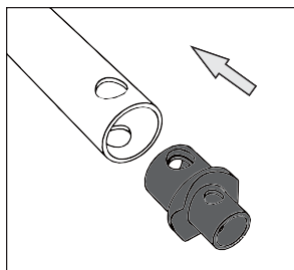
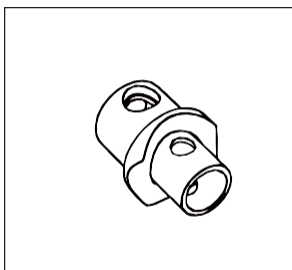
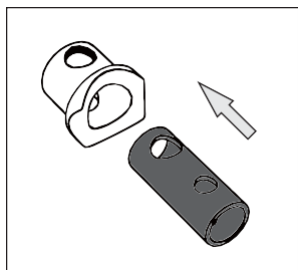


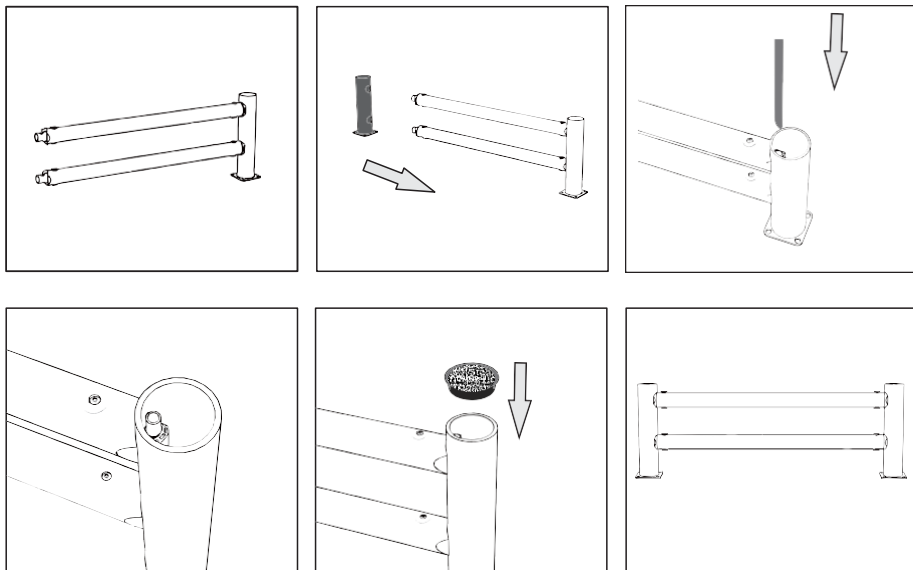
4X



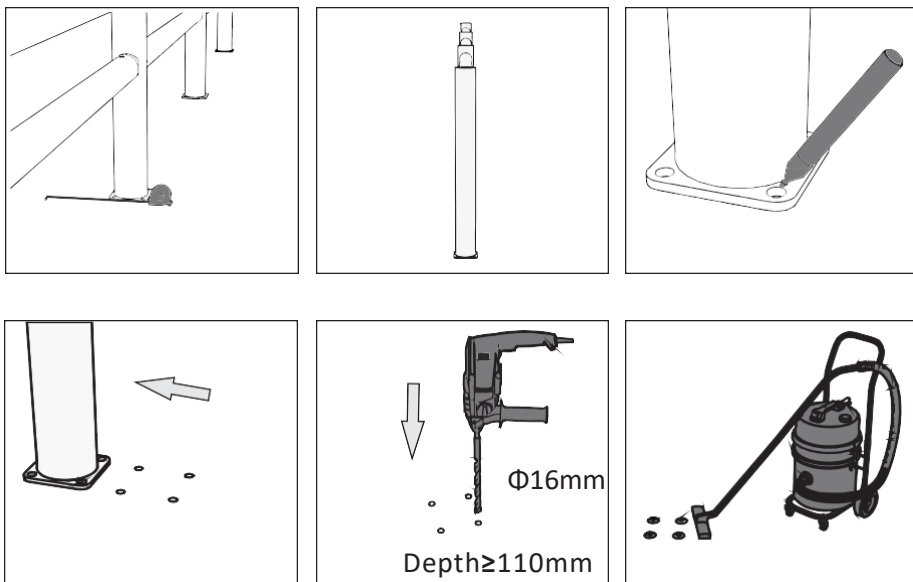
8X

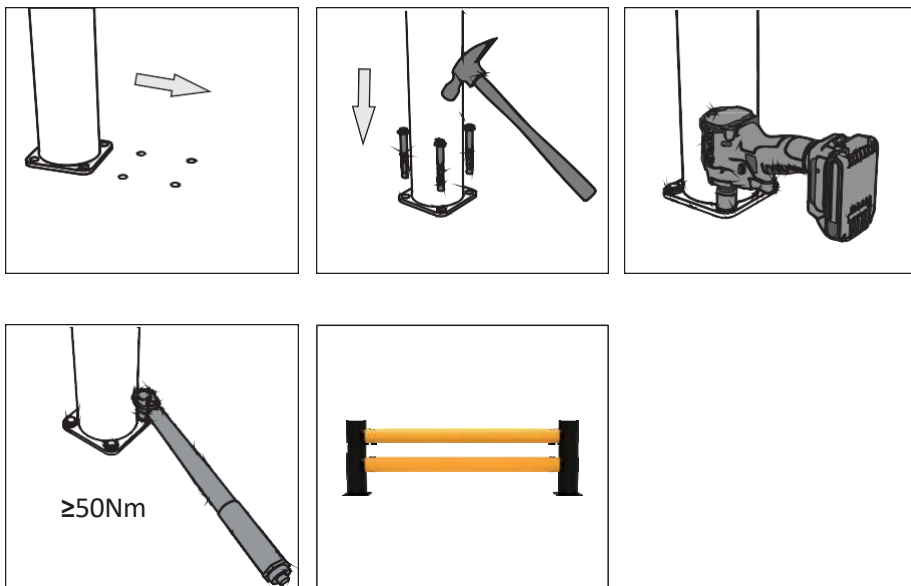
3. Assemble



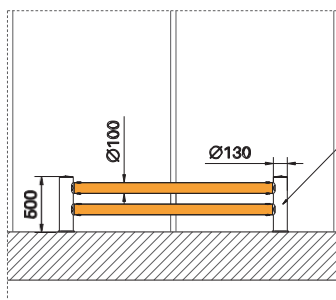


4. Installation



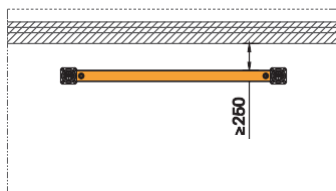
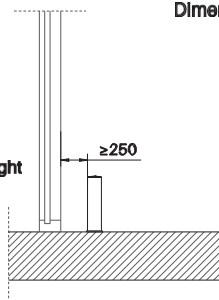


5. Dimensions

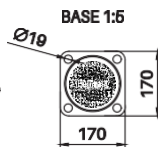


Impact Zone
0.35 - 0.45 m height

Dimensions (mm)



Rated Impact Energy : 6400 Joule
Rated working angle : 45°
Post : RAL 9005 , Jet black
Rail : RAL 1003 , Signal yellow
Bolt : 8.8 grade M10 Expansion Bolt



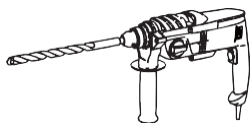
MS168

FLEXGUARD MID-SAFE



FlexGuard Mid-safe – MS168

1. Tools Required



Hammer Drill (Φ16mm)



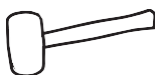
Impact Driver(16mm)



Vacuum Cleaner



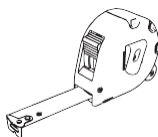
Torque wrench (16mm)



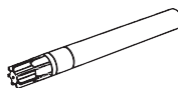
Rubber Mallet



Hammer



Tape Measure



Marker

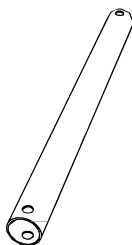


Allen Key (6mm)

2. Components



2X



2X



2X

connector



4X



4X



2X



4X



8X

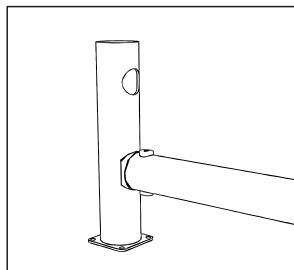
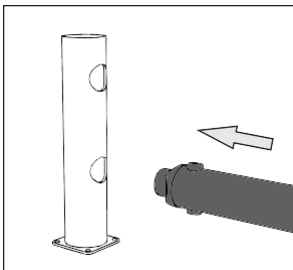
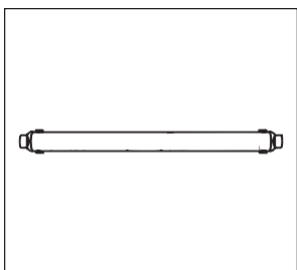
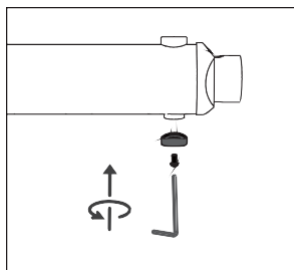
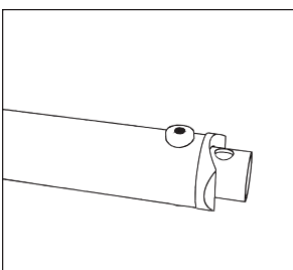
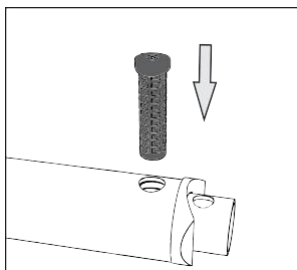
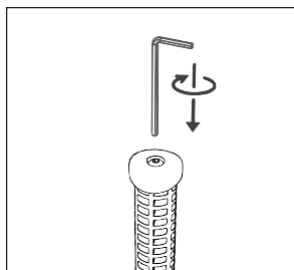
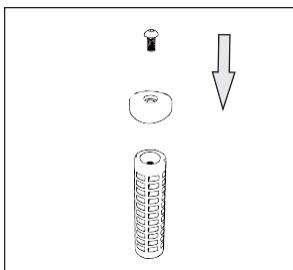
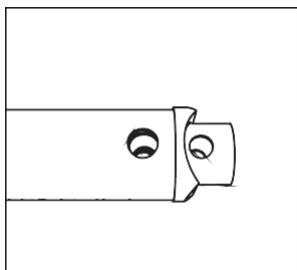
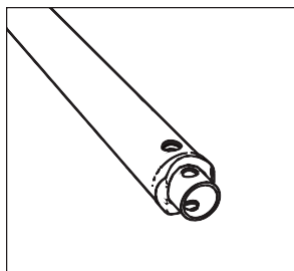
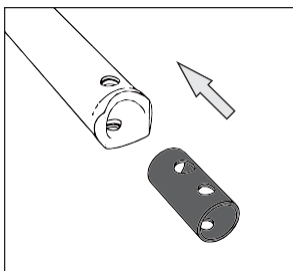
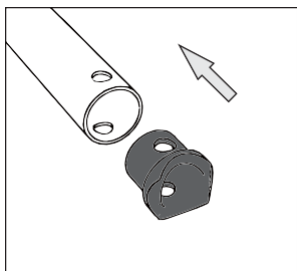


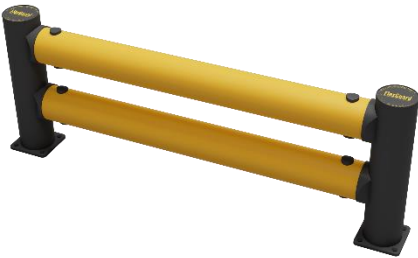
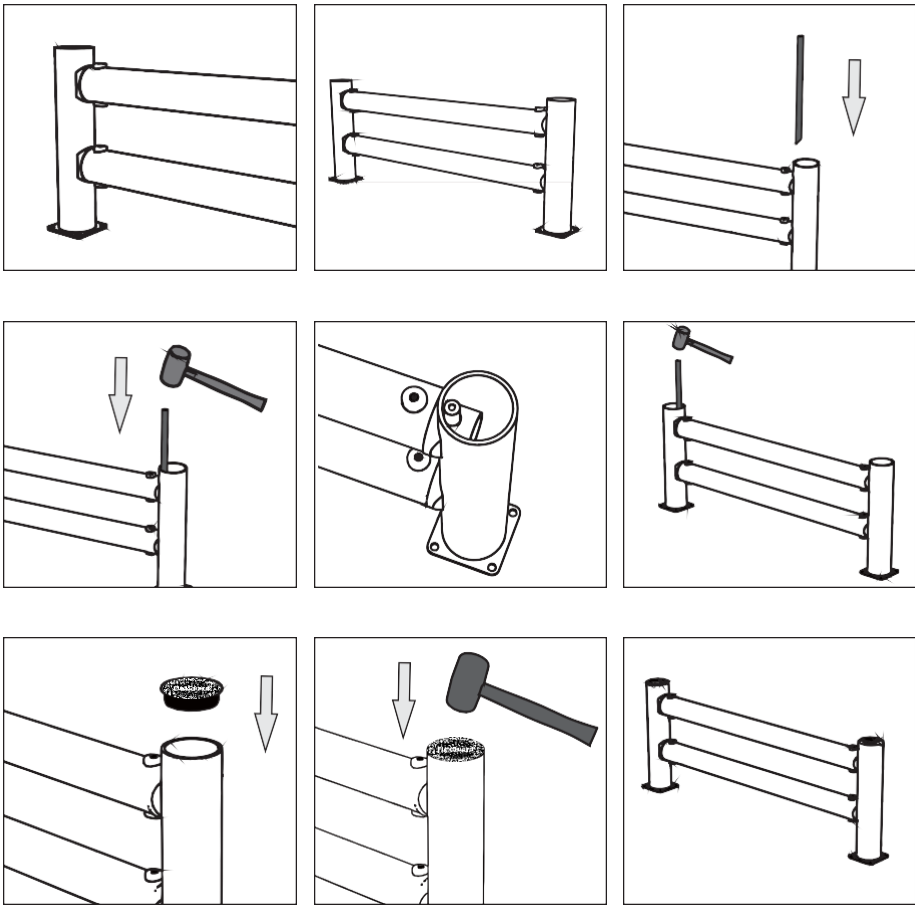
8X



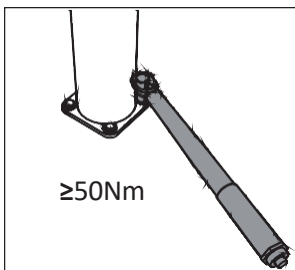
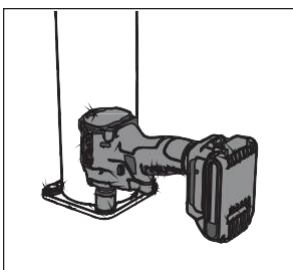
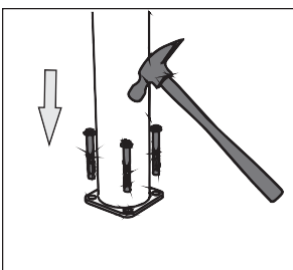
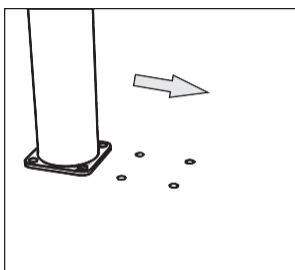
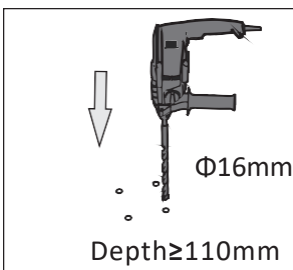
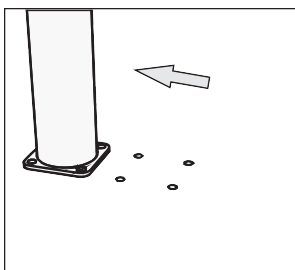
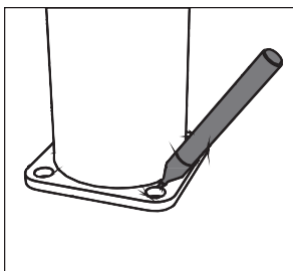
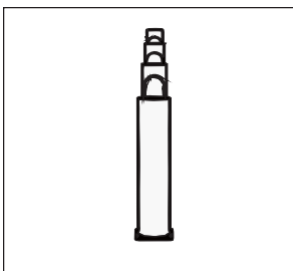
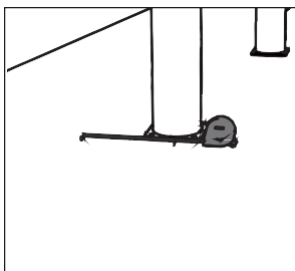
8X

3. Assemble

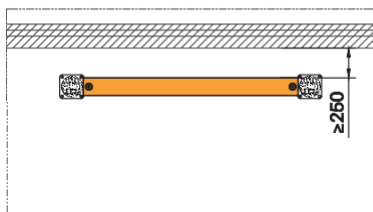
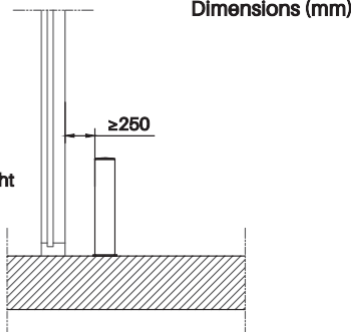
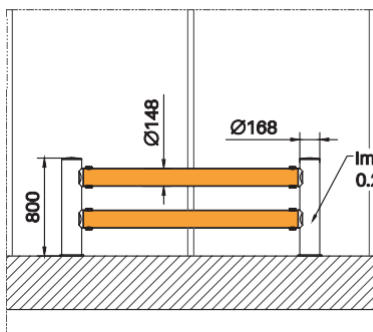




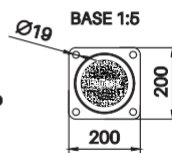
4. Installation



5. Dimensions



Rated Impact Energy : 19000 Joule
 Rated working angle : 45°
 Post : RAL 9005 , Jet black
 Rail : RAL 1003 , Signal yellow
 Bolt : 8.8 grade M10 Expansion Bolt



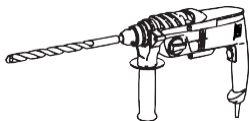
LS130

FLEXGUARD LO-SAFE



FlexGuard Low-safe – LS130

1. Tools Required



Hammer Drill (Φ16mm)



Impact Driver(16mm)



Vacuum Cleaner



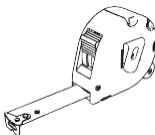
Torque wrench (16mm)



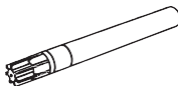
Rubber Mallet



Hammer



Tape Measure



Marker

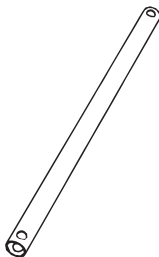


Allen Key (6mm)

2. Components



1X



1X



2X



2X



2X



2X



2X



2X

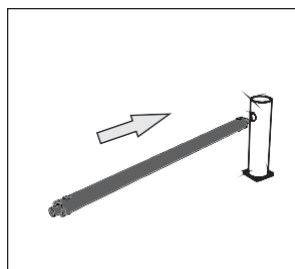
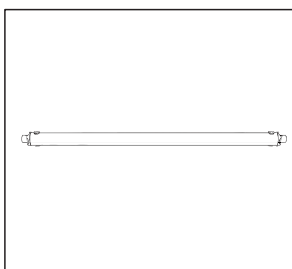
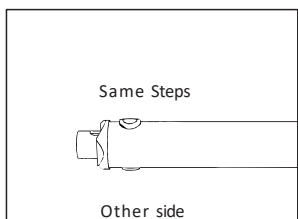
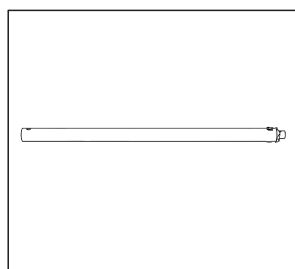
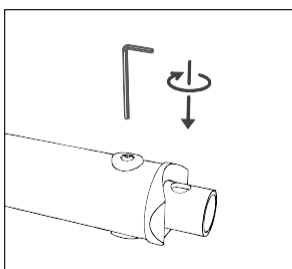
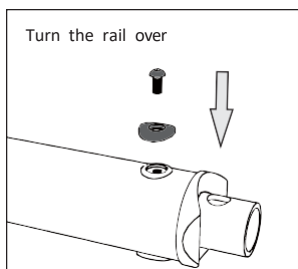
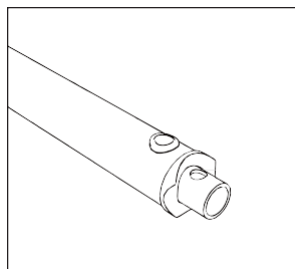
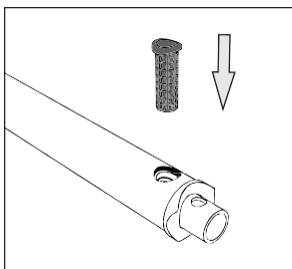
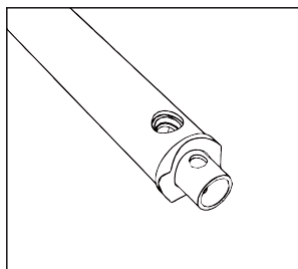
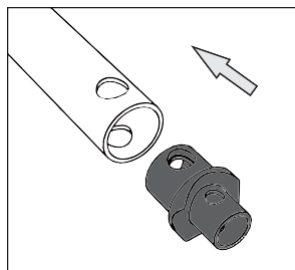
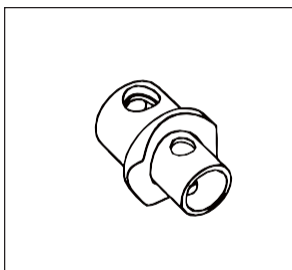
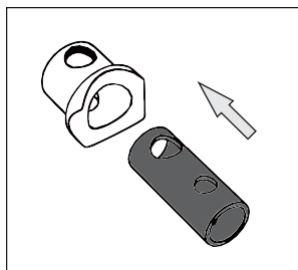


2X

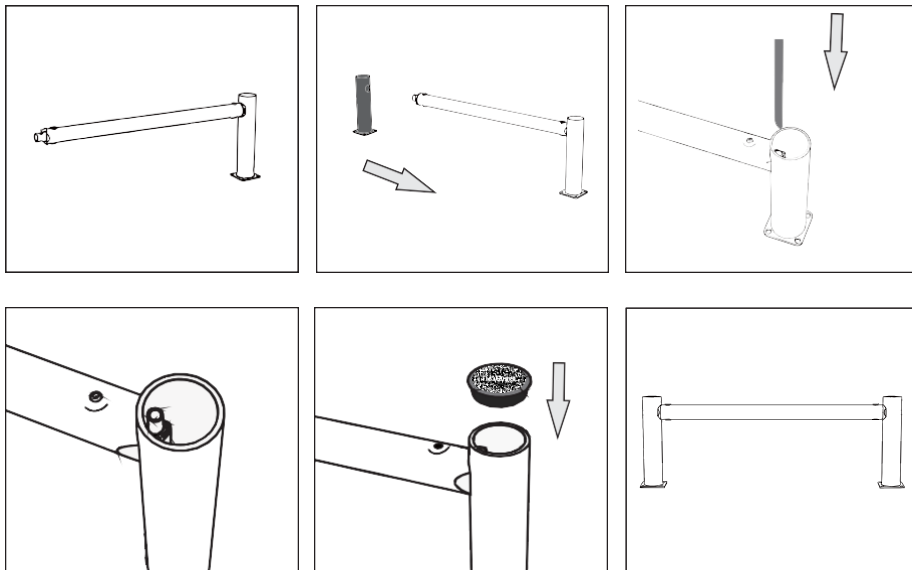


8X

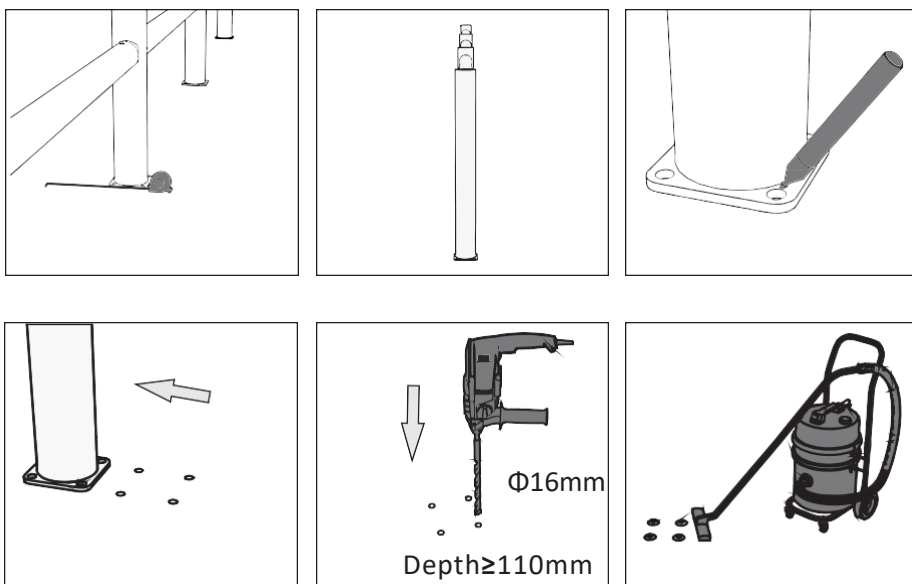
3. Assemble



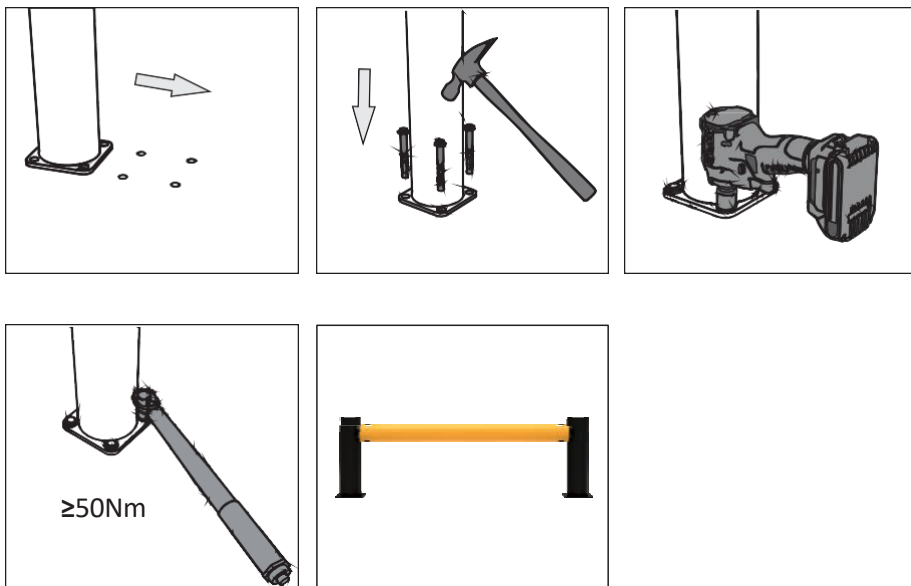
FlexGuard Low-safe – LS130



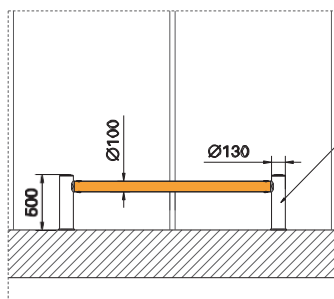
4. Installation



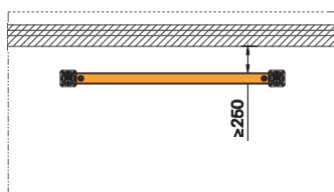
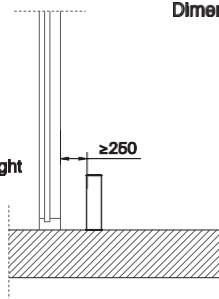
FlexGuard Low-safe – LS130



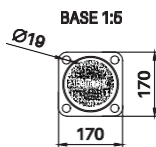
5. Dimensions



Dimensions (mm)



Rated Impact Energy : 3850 Joule
 Rated working angle : 45°
 Post : RAL 9005 , Jet black
 Rail : RAL 1003 , Signal yellow
 Bolt : 8.8 grade M10 Expansion Bolt



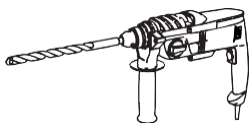
LS168

FLEXGUARD LO-SAFE



FlexGuard Low-safe – LS168

1. Tools Required



Hammer Drill (Φ16mm)



Impact Driver (16mm)



Vacuum Cleaner



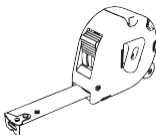
Torque wrench (16mm)



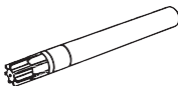
Rubber Mallet



Hammer



Tape Measure

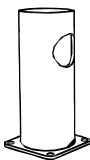


Marker

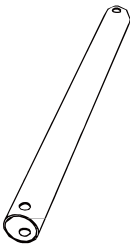


Allen Key (6mm)

2. Components



2X



1X



2X

connector



2X



2X



2X



2X



4X

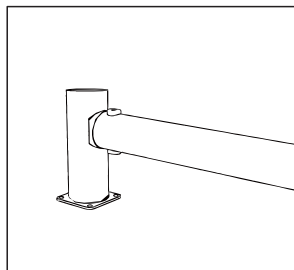
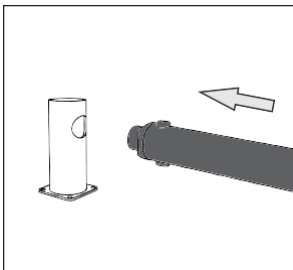
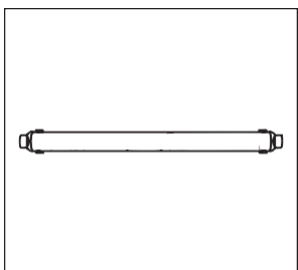
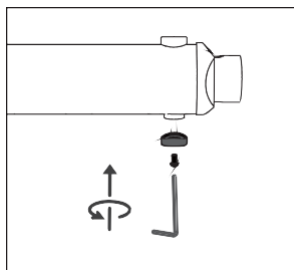
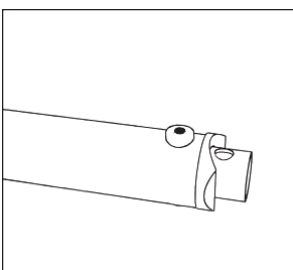
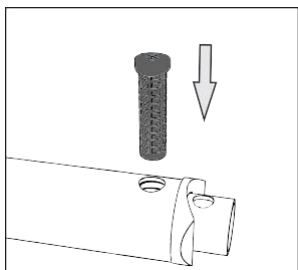
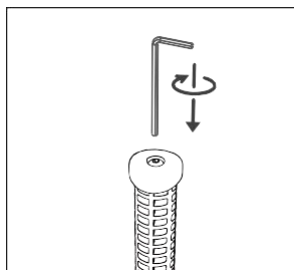
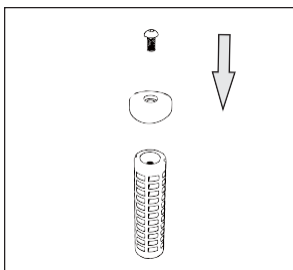
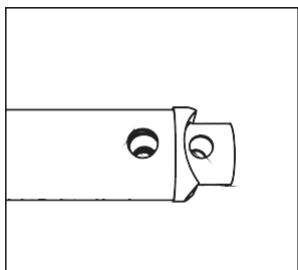
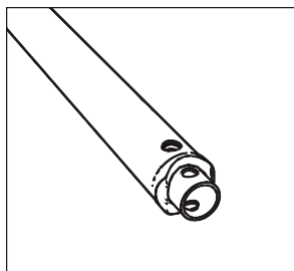
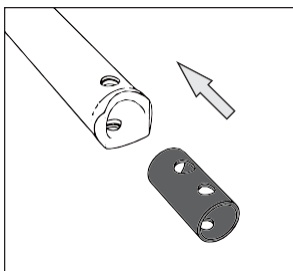
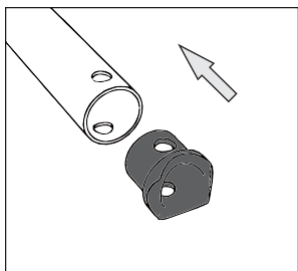


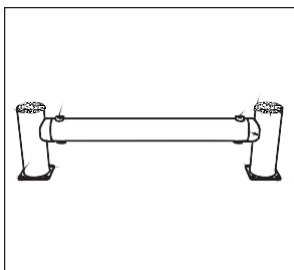
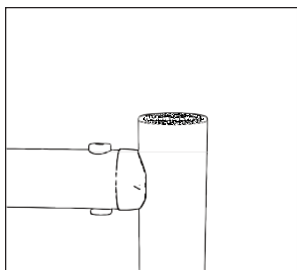
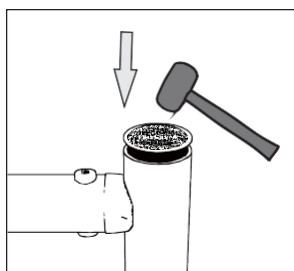
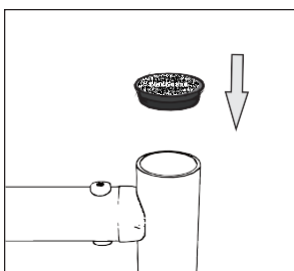
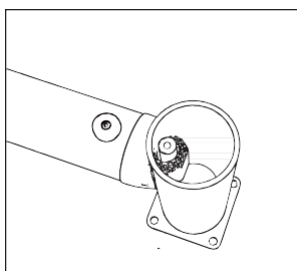
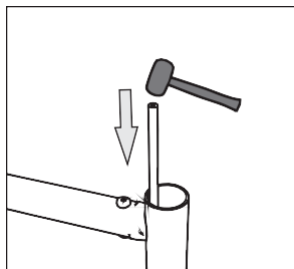
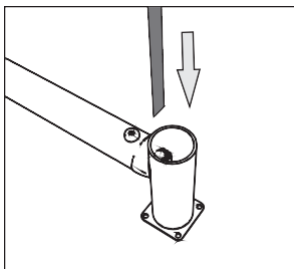
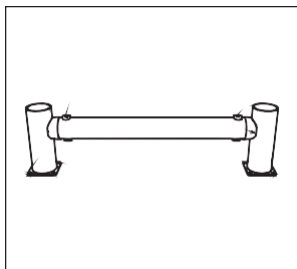
4X



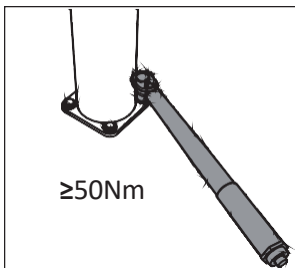
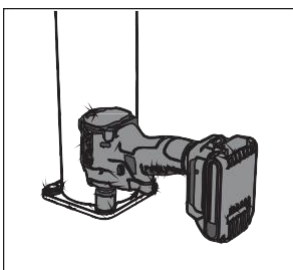
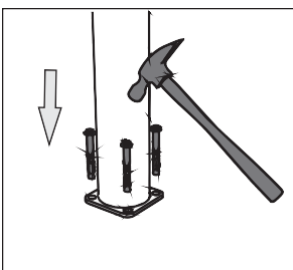
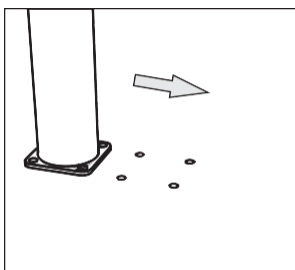
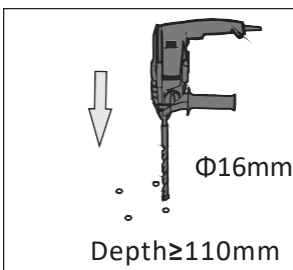
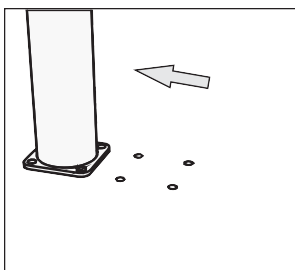
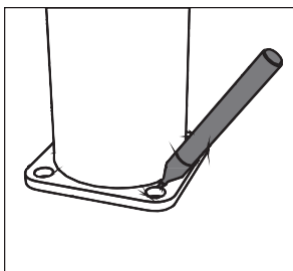
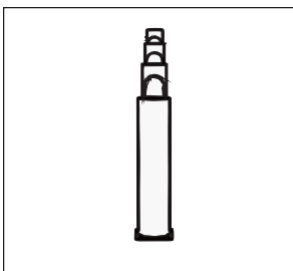
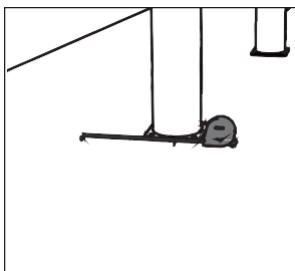
8X

3. Assemble

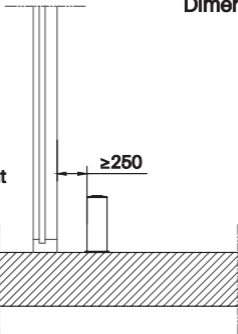
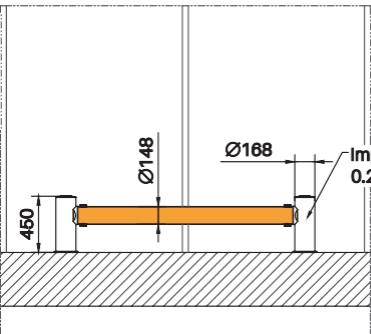




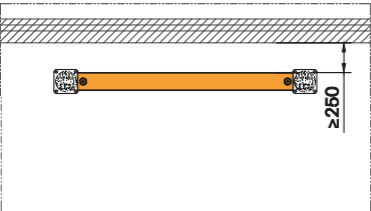
4. Installation



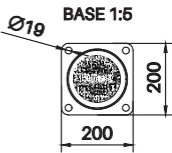
5. Dimensions



Dimensions (mm)



- Rated Impact Energy : 14400 Joule
- Rated working angle : 45°
- Post : RAL 9005, Jet black
- Rail : RAL 1003, Signal yellow
- Bolt : 8.8 grade M10 Expansion Bolt



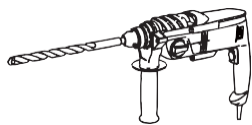
AC110

FLEXGUARD ANCHOR



FlexGuard Anchor – AC110

1. Tools Required



Hammer Drill (Φ23mm)



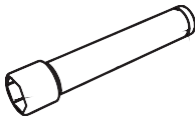
Impact Driver(12mm)



Vacuum Cleaner



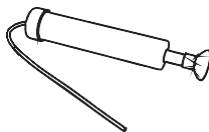
Tape Measure



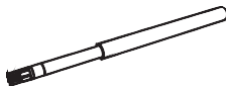
Extended Impact Socket (30mm)



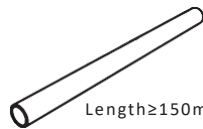
Cleaning brush



Air Pump

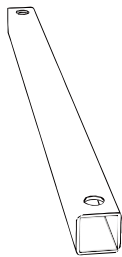


Marker With Extension



Length≥150mm
guide tube(≤Φ16mm)

2.. Components



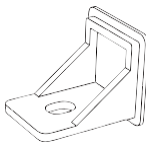
1X



2X



2X



2X



2X

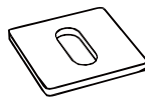
Nylon sleeve



2X



2X

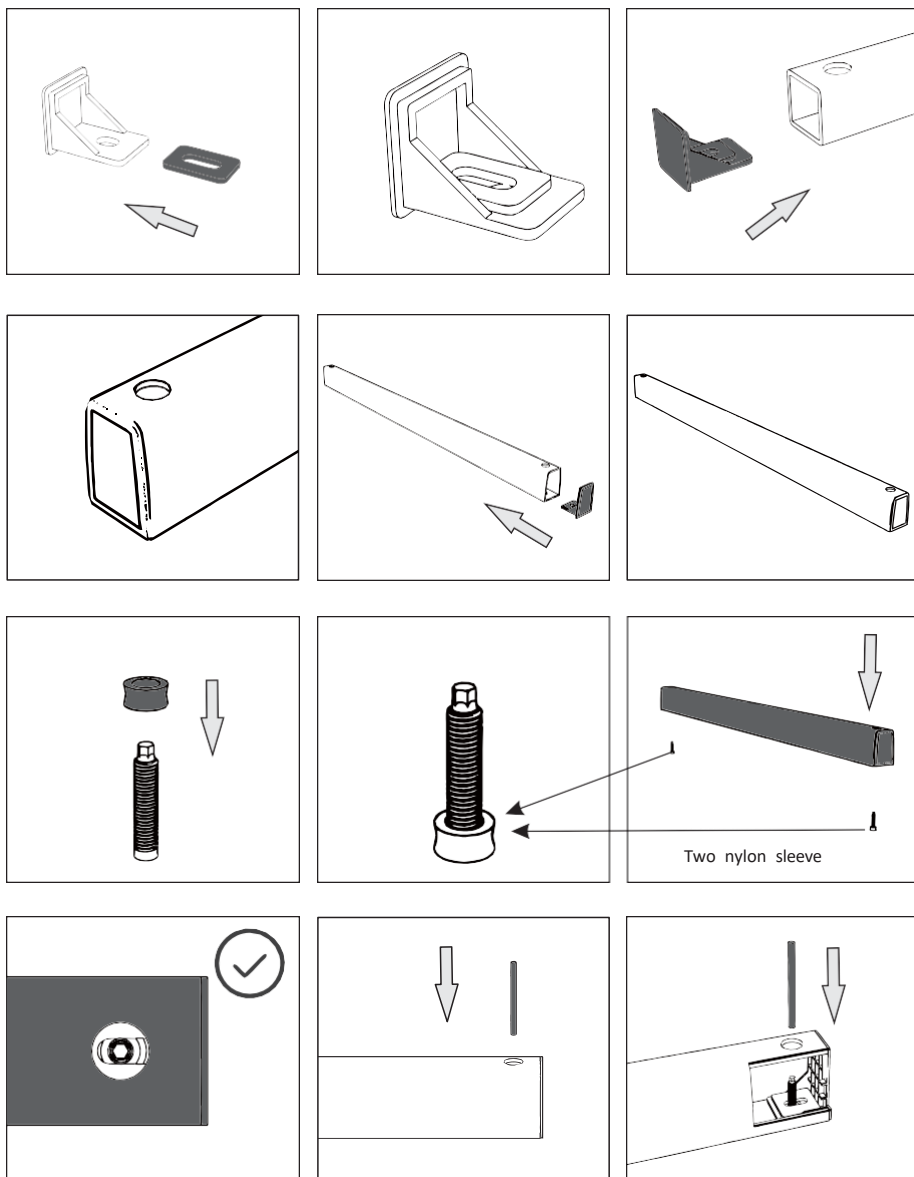


2X

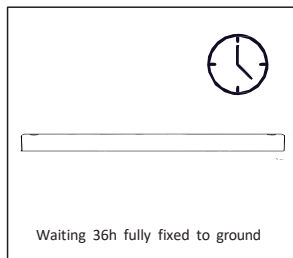
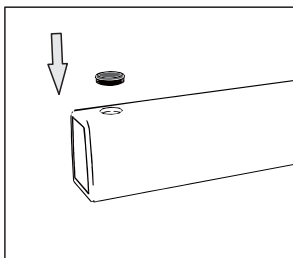
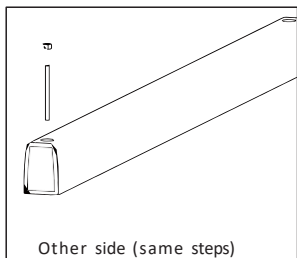
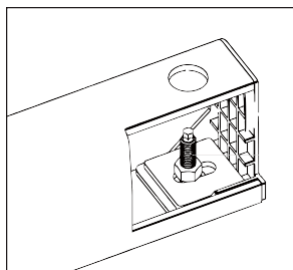
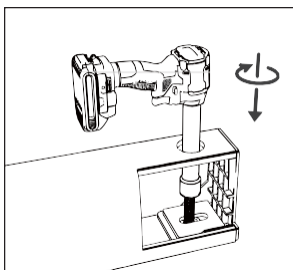
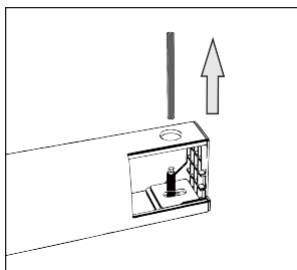
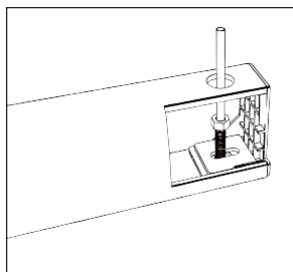
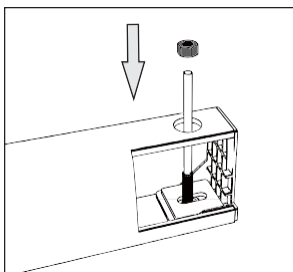
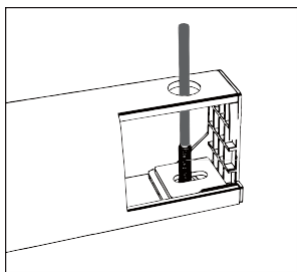
3.Installation



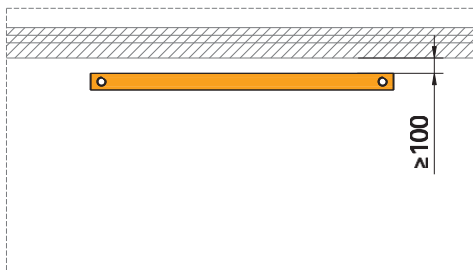
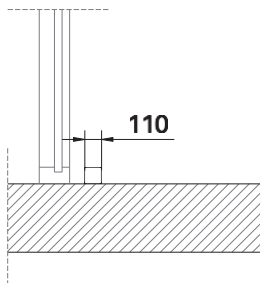
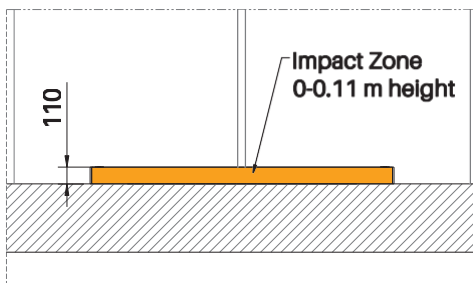
FlexGuard Anchor – AC110



FlexGuard Anchor – AC110



Dimensions (mm)



Rated Impact Energy : 5800 Joule
Rated working angle : 90°
Rail : RAL 1003, Signal yellow
Bolt : 8.8 grade M20 Chemical Bolt
8.8 grade M16 Expansion Bolt

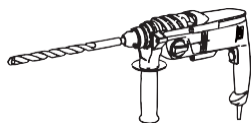
AC190

FLEXGUARD ANCHOR



FlexGuard Anchor – AC190

1. Tools Required



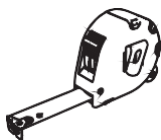
Hammer Drill (Φ23mm)



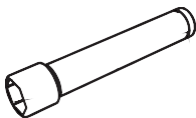
Impact Driver(12mm)



Vacuum Cleaner



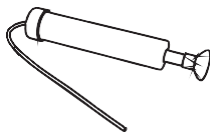
Tape Measure



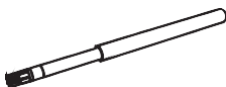
Extended Impact Socket (30mm)



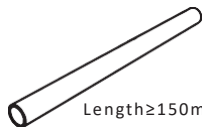
Cleaning brush



Air Pump

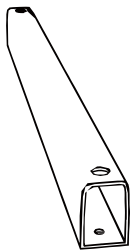


Marker With Extension



Length≥150mm
guide tube(≤Φ16mm)

2. Components



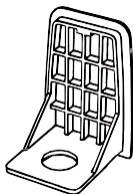
1X



2X



2X



2X



2X

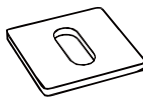
Nylon sleeve



2X

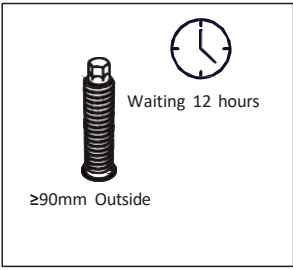
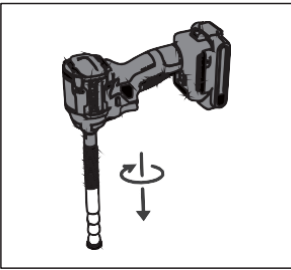
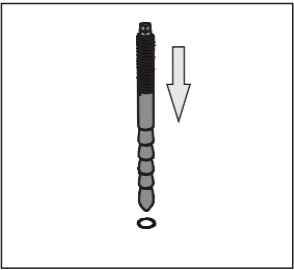
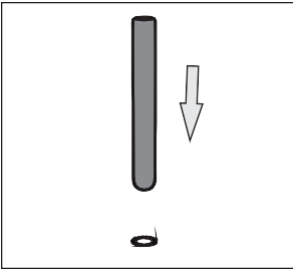
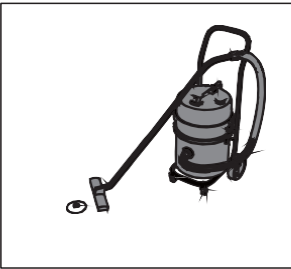
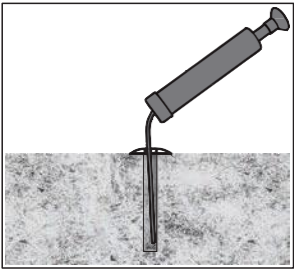
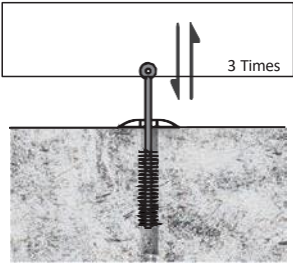
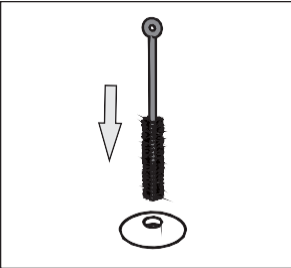
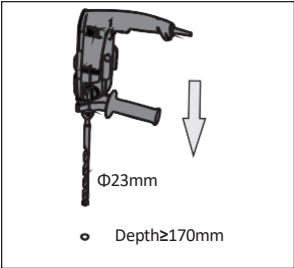
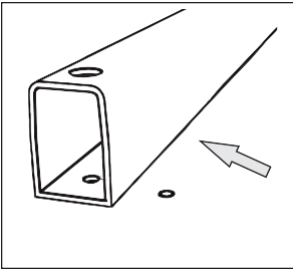
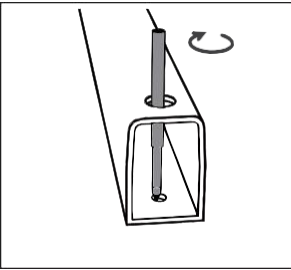
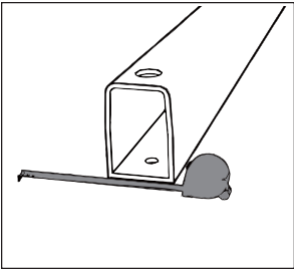


2X

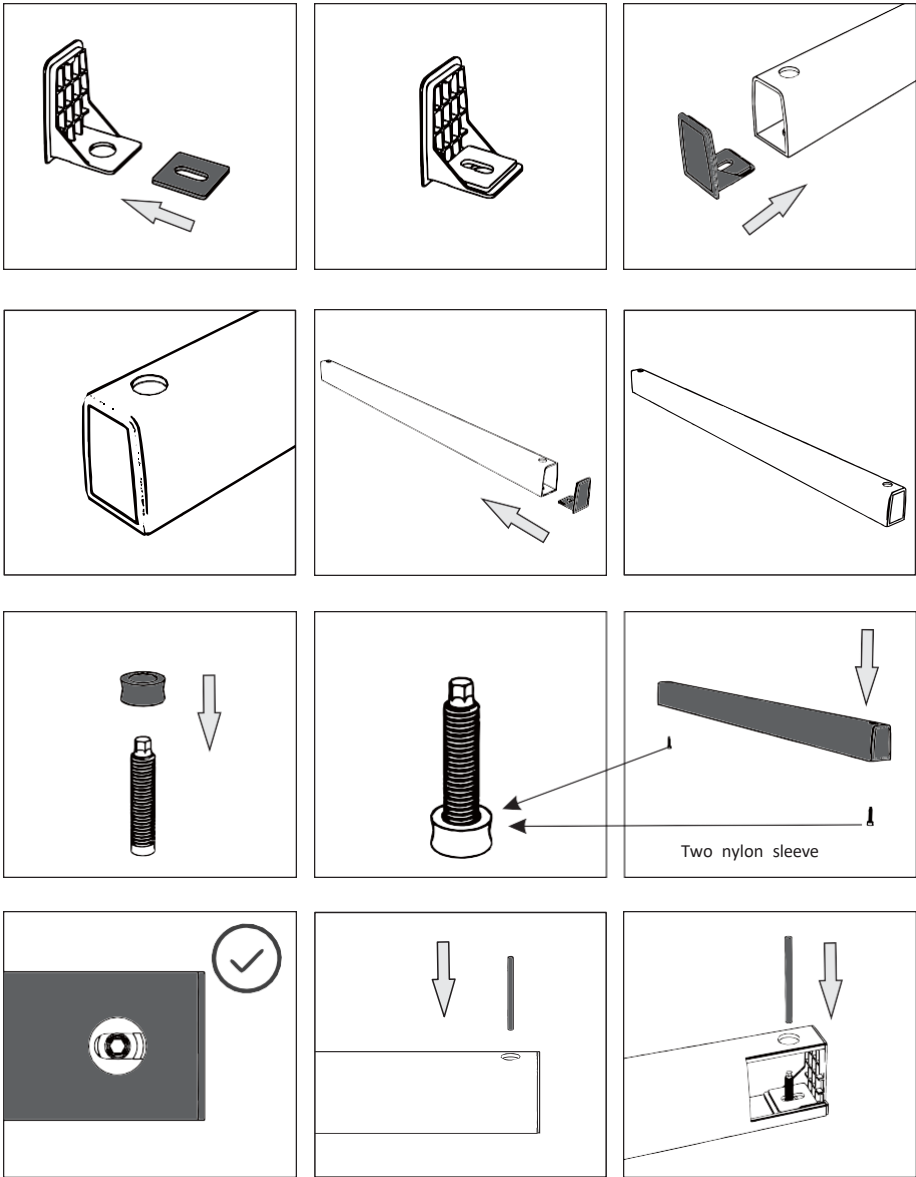


2X

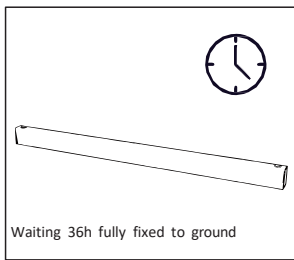
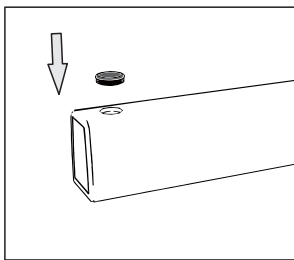
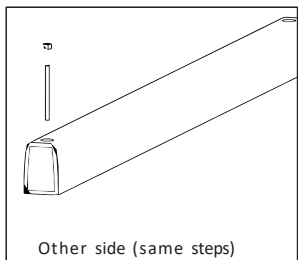
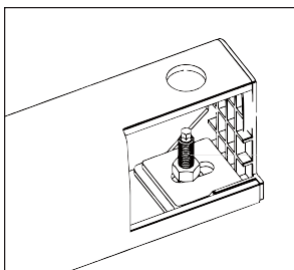
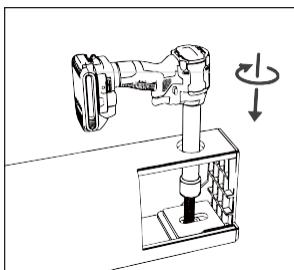
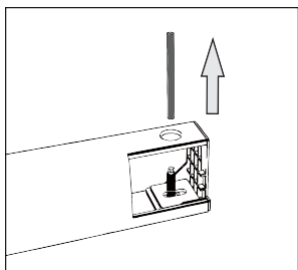
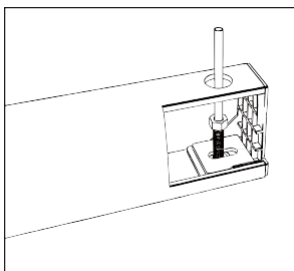
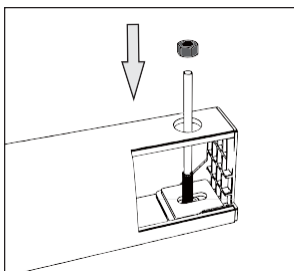
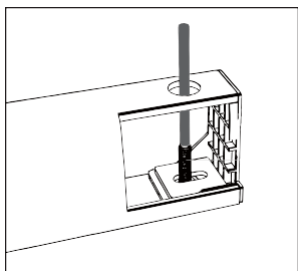
3. Installation



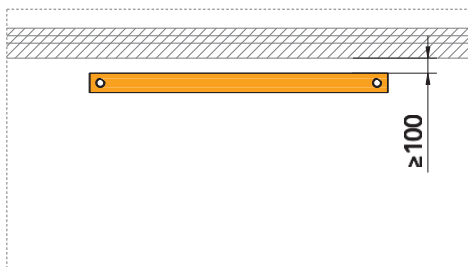
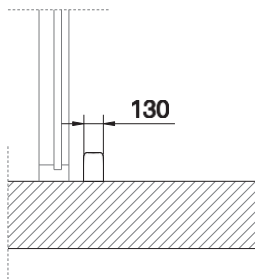
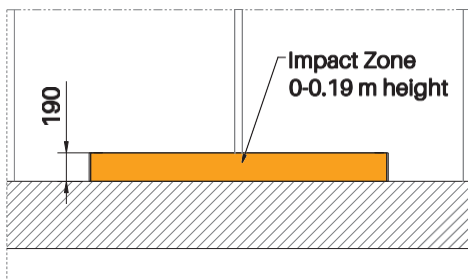
FlexGuard Anchor – AC190



FlexGuard Anchor – AC190



Dimensions (mm)



Rated Impact Energy : 5800 Joule

Rated working angle : 90°

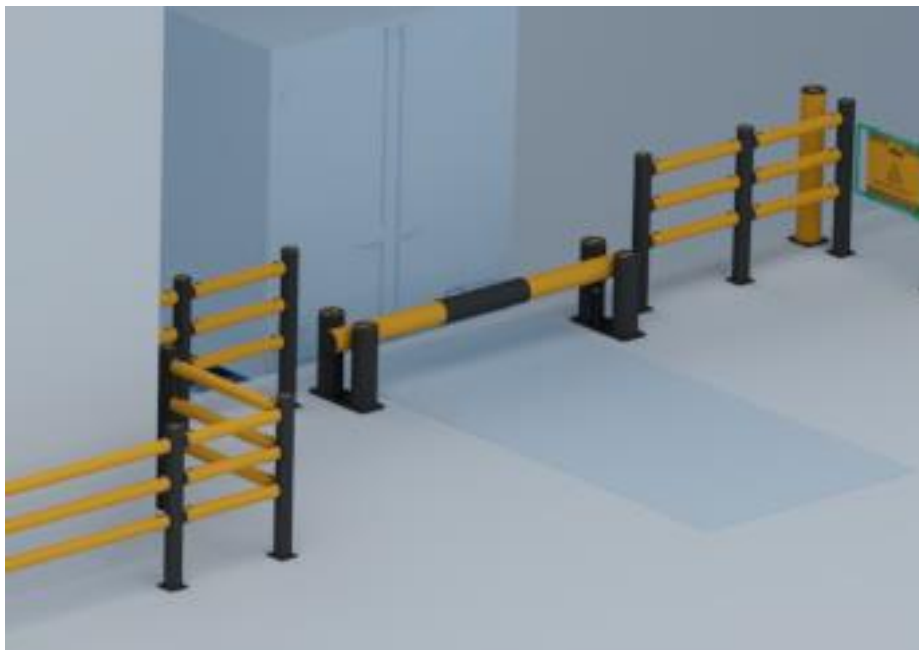
Rail : RAL 1003 , Signal yellow

Bolt : 8.8 grade M20 Chemical Bolt

8.8 grade M16 Expansion Bolt

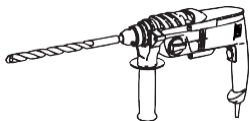
DG168

FLEXGUARD DOCKGATE



FlexGuard Dockgate – DG168

1. Tools Required



Hammer Drill (Φ16mm)



Impact Driver(16mm)



Vacuum Cleaner



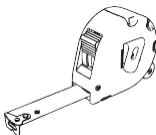
Torque wrench (16mm)



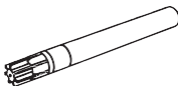
Rubber Mallet



Hammer



Tape Measure

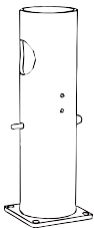


Marker

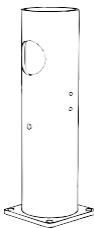


Allen Key (5mm)

2. Components



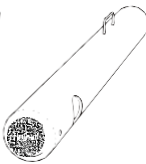
2X



2X



1X



1X



2X



1X



2X



8X



8X



8X

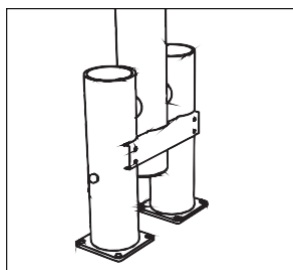
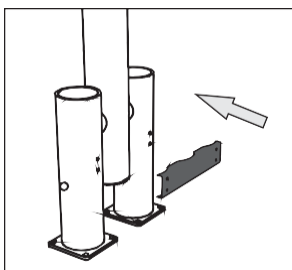
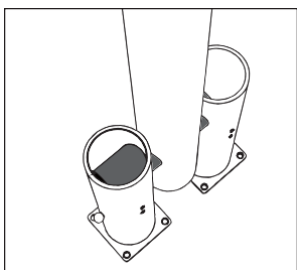
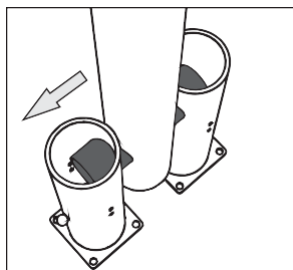
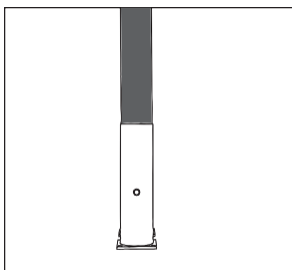
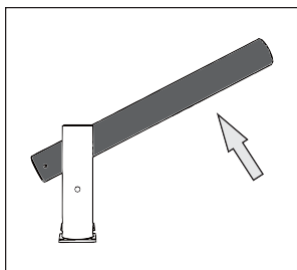
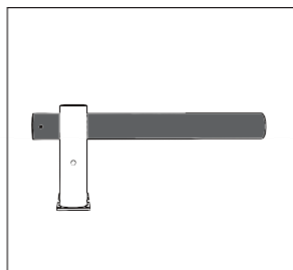
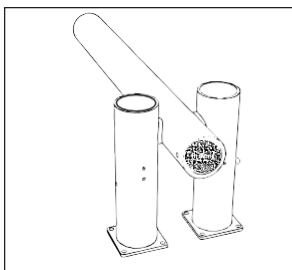
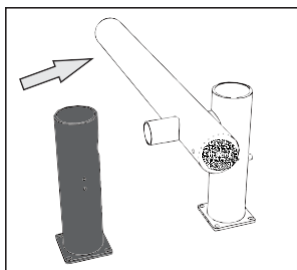
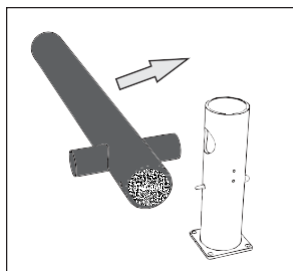
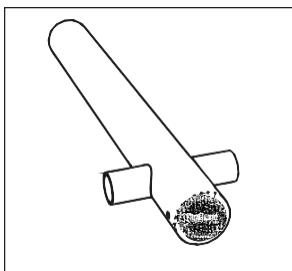
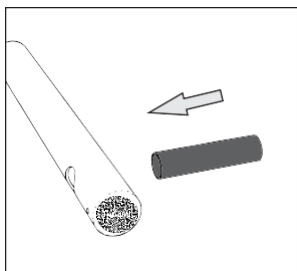


4X

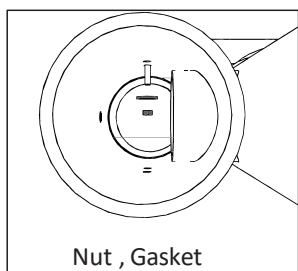
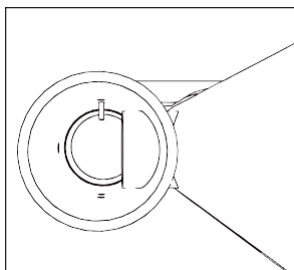
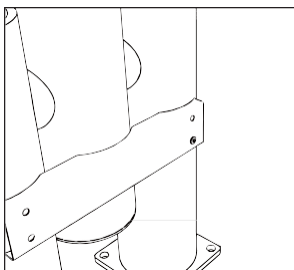
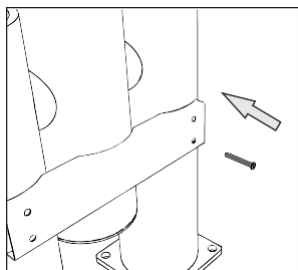


16X

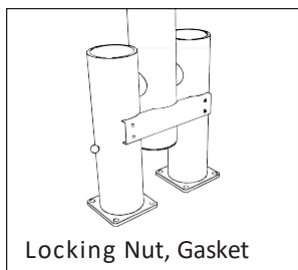
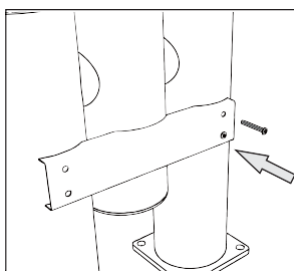
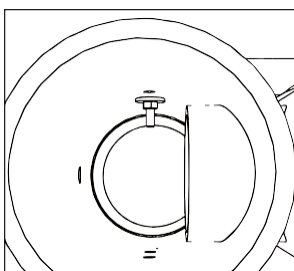
3. Assemble



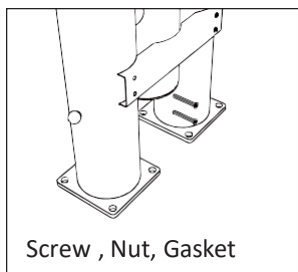
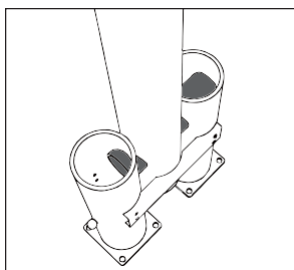
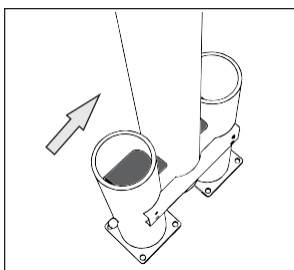
FlexGuard Dockgate – DG168



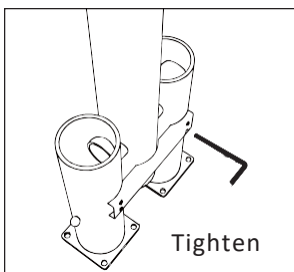
Nut , Gasket



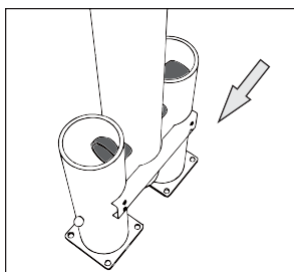
Locking Nut, Gasket



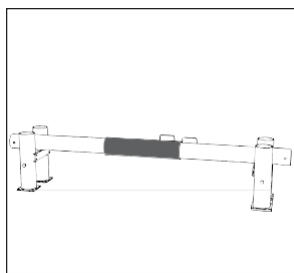
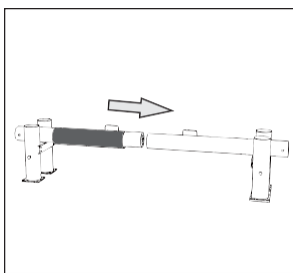
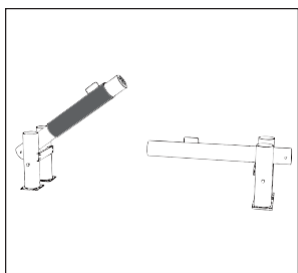
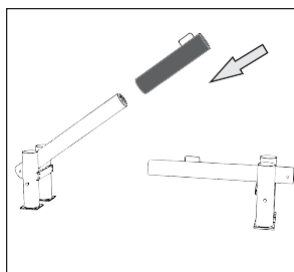
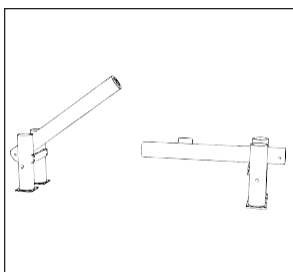
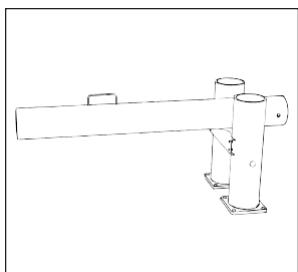
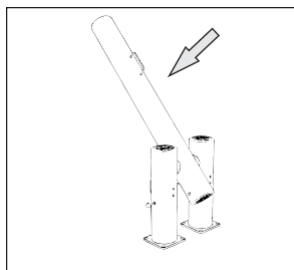
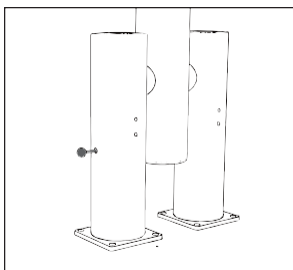
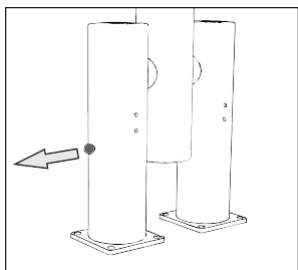
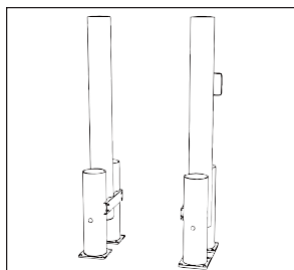
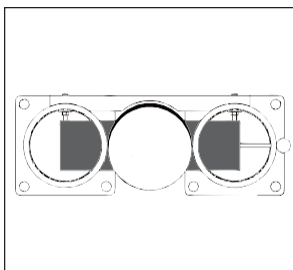
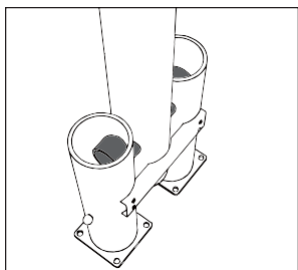
Screw , Nut, Gasket



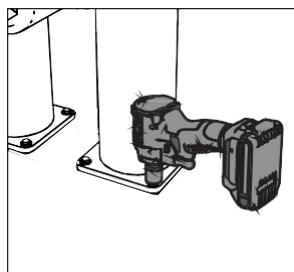
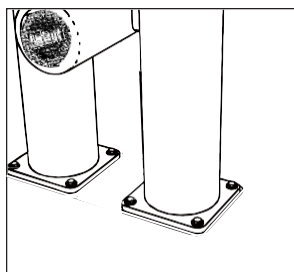
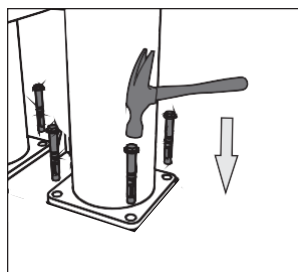
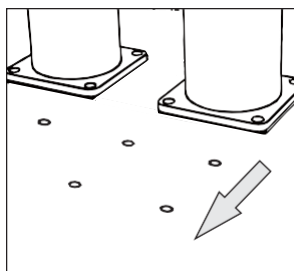
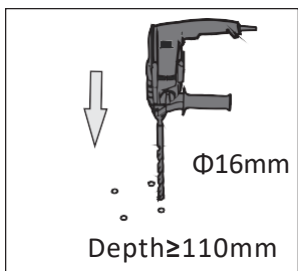
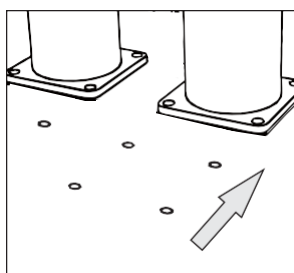
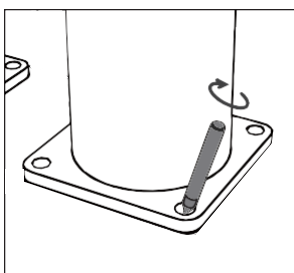
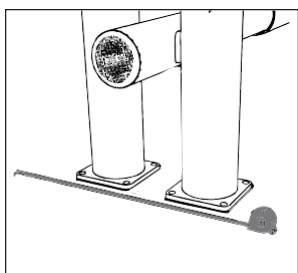
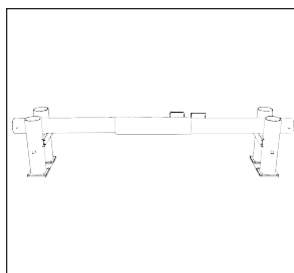
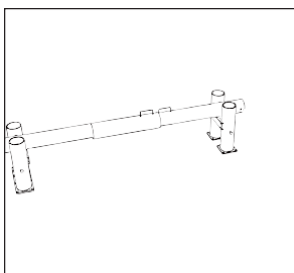
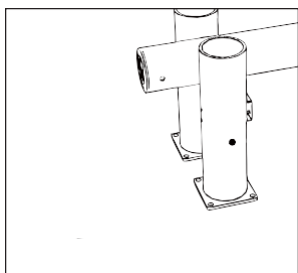
Tighten



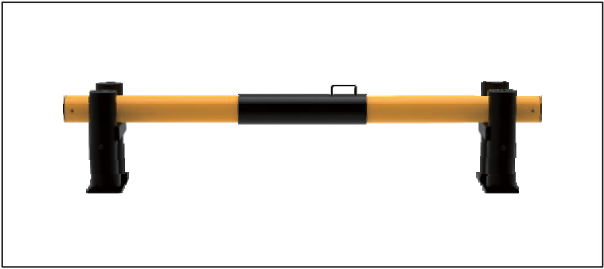
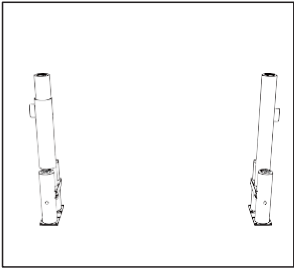
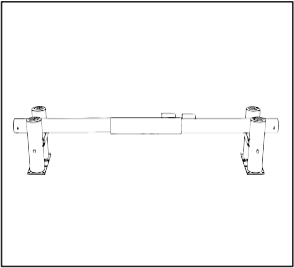
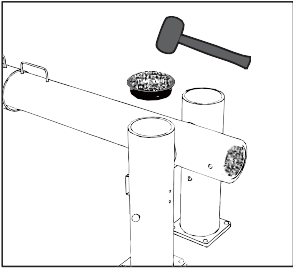
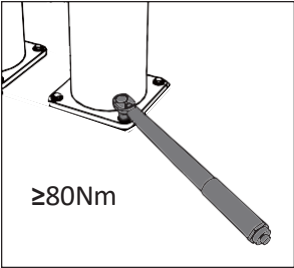
FlexGuard Dockgate – DG168



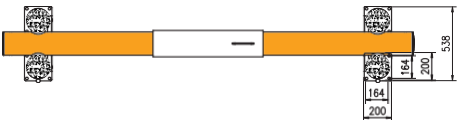
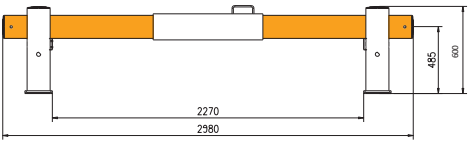
4. Installation



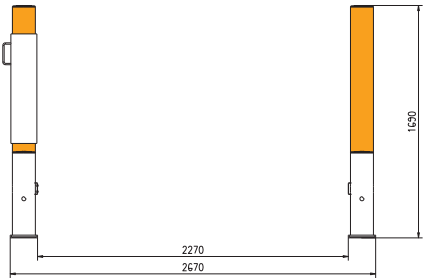
FlexGuard Dockgate – DG168



5. Dimensions

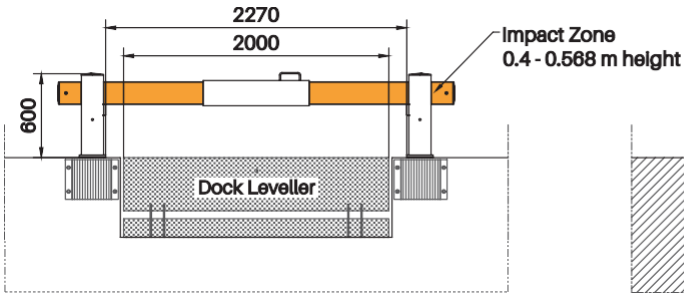


Close

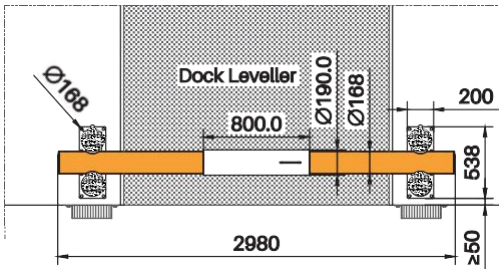
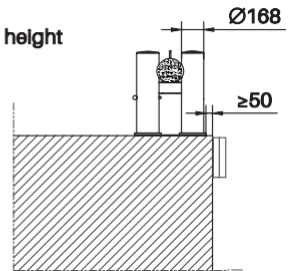


Open

FlexGuard Dockgate – DG168



Dimensions (mm)



Rated Impact Energy : 10000 Joule

Rated working angle : 90°

Post : RAL 9005, Jet black

Rail : RAL 1003, Signal yellow

Bolt : 8.8 grade M10 Expansion Bolt

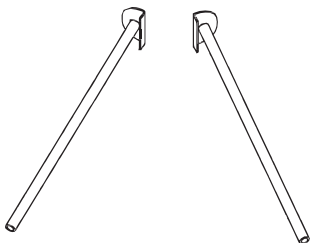
AR80/AR100

FLEXGUARD ARMOR



FlexGuard Armor – AR80/AR100

1. Preparation

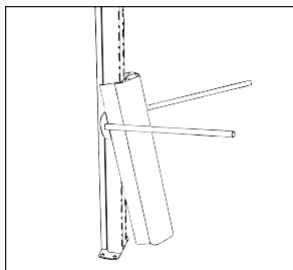
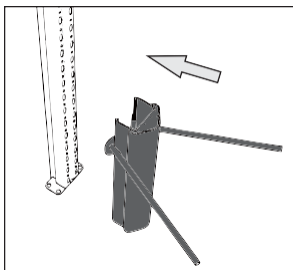
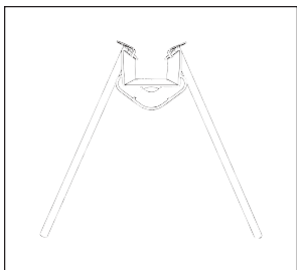
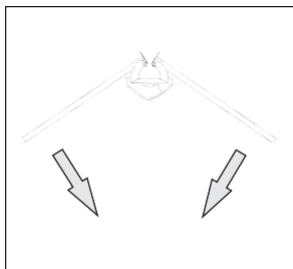
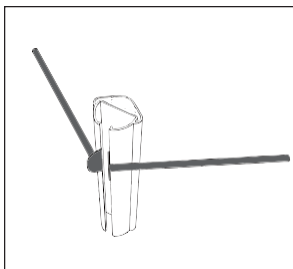
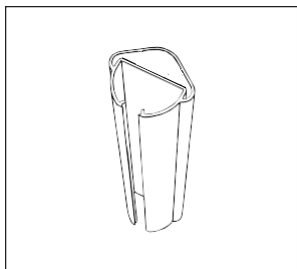


Specialized tools
(The appearance is subject to the actual product)

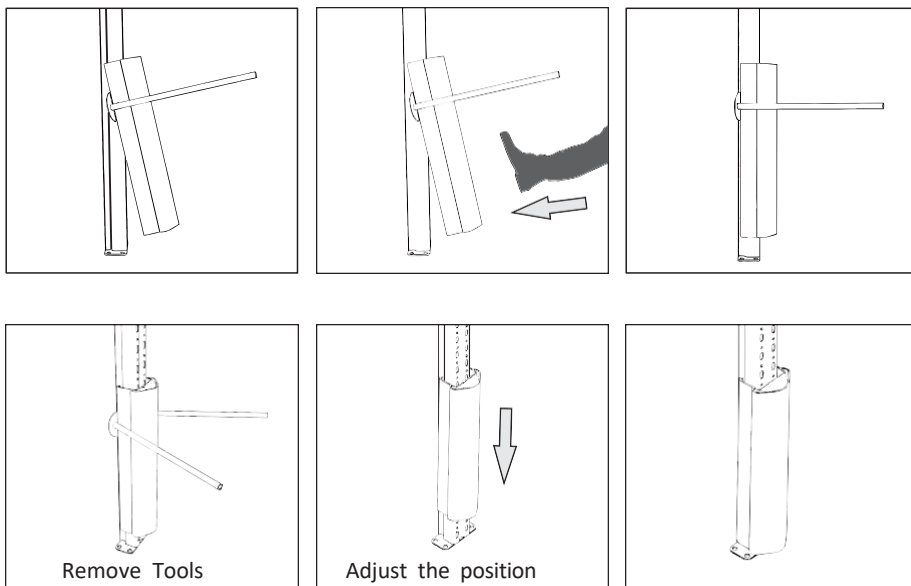


Impact Rackshield –
FlexGuard Armor

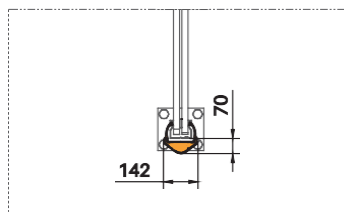
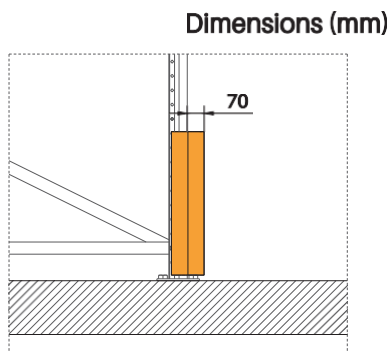
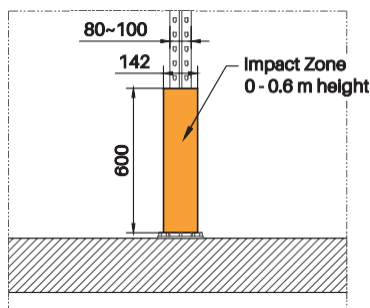
2. Installation



FlexGuard Armor – AR80/AR100



3. Dimensions



Rated Impact Energy : 1000 Joule
Rated working angle : 90°
Colour : RAL 1003 , Signal yellow
Installation : Quick installation with specialized tools
bolt : No bolts needed

**A SAFER TOMORROW
■ SINCE 1955 →**



TROAX SAFETY SYSTEMS