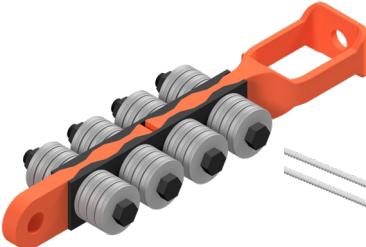
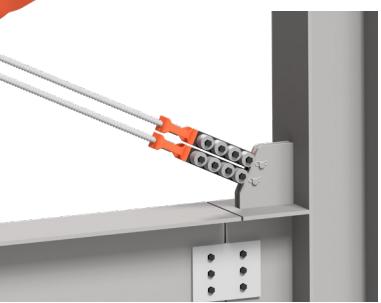
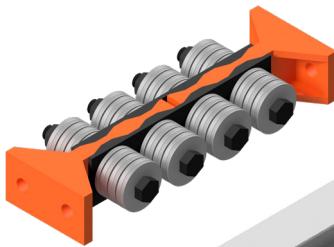


# Application design specifications

## RSFJ - Tbrace (Tension-only brace)

Product Code	Ultimate capacity ( $F_{ult}$ )(kN)	Ultimate deflection ( $\Delta_{ult}$ ) (mm)	Hysteresis damping ( $\zeta$ )	Connection Configuration and Application example
RSFJ-TL1	25	5mm to 60mm (in increments of 5mm)	10% to 15% (depending on $\Delta_{ult}$ )	 
RSFJ-TL2	50			
RSFJ-TL3	75			
RSFJ-TL4	100			
RSFJ-TH1	150			
RSFJ-TH2	300			
RSFJ-TH3	450			
RSFJ-TH4	600			

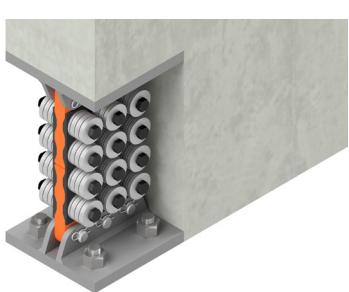
## RSFJ - Brace (Tension and Compression brace)

Product Code	Ultimate capacity ( $F_{ult}$ )(kN)	Ultimate deflection ( $\Delta_{ult}$ ) (mm)	Hysteresis damping ( $\zeta$ )	Connection Configuration and Application example
RSFJ-BL1	25	5mm to 60mm (in increments of 5mm)	10% to 15% (depending on $\Delta_{ult}$ )	 
RSFJ-BL2	50			
RSFJ-BL3	75			
RSFJ-BL4	100			
RSFJ-BH1	150			
RSFJ-BH2	300			
RSFJ-BH3	450			
RSFJ-BH4	600			

# RSFJ - Moment Resisting Frame

Product Code	Ultimate capacity ( $F_{ult}$ )(kN)	Ultimate deflection ( $\Delta_{ult}$ ) (mm)	Hysteresis damping ( $\zeta$ )	Connection Configuration and Application example
RSFJ-ML1	25	5mm to 60mm (in increments of 5mm)	10% to 15% (depending on $\Delta_{ult}$ )	 
RSFJ-ML2	50			
RSFJ-ML3	75			
RSFJ-ML4	100			
RSFJ-MH1	150			
RSFJ-MH2	300			
RSFJ-MH3	450			
RSFJ-MH4	600			

## RSFJ - Shear Wall

Product Code	Ultimate capacity ( $F_{ult}$ )(kN)	Ultimate deflection ( $\Delta_{ult}$ ) (mm)	Hysteresis damping ( $\zeta$ )	Connection Configuration and Application example
RSFJ-SL1	25	5mm to 60mm (in increments of 5mm)	10% to 15% (depending on $\Delta_{ult}$ )	 
RSFJ-SL2	50			
RSFJ-SL3	75			
RSFJ-SL4	100			
RSFJ-SH1	150			
RSFJ-SH2	300			
RSFJ-SH3	450			
RSFJ-SH4	600			

- Products could be applied as multiple joints in a modular pattern to achieve larger capacities. Customised products can also be supplied, satisfying any targeted capacity and deflection.
- Joints are capable of providing deflection beyond  $\Delta_{ult}$  through yielding of the clamping bolts acting as a secondary fuse (without compromising the self-centring characteristic).  $\Delta_{max}$  is equal to the minimum of  $60\text{mm}-\Delta_{ult}$  and  $2\Delta_{ult}$ .
- Estimated equivalent ductility factor is 2 to 3 (depending on hysteresis damping ratio ranging from 10% to 20%)
- Standard width of RSFJ is 75mm. The joint length depends on the number of bolts (twice the number denoted in the product code) with a footprint of 90mm each.