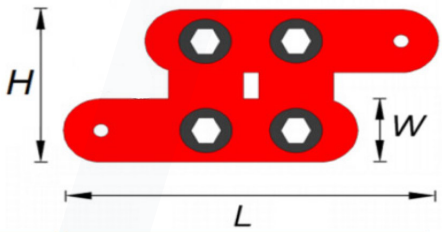
DAMPTECH
Earthquake Protection

Turkey
Greece
Japan
eg. Japan's Highest Skyscraper
United States
China
India
Chile

PRODUCT LIST
DAMPTECH DAMPERS

MOST STANDARD DAMPER SIZES

(In the same scale, all shown as 140 mm stroke)



Capacity (kN)	Type	H (mm)	L (mm)	W (mm)	Layers	Displacement (+/- mm)
100	FD4J-100	360	650	160	2	120
200	FD4J-200	360	650	160	2	120
300	FD4J-300	360	650	160	3	120
400	FD4J-400	360	650	160	4	120
500	FD4J-500	360	650	160	5	120
600	FD4J-600	560	900	250	3	120
700	FD4J-700	560	900	250	3	120
800	FD4J-800	560	900	250	3	120
1000	FD4J-1000	560	900	250	4	120
1500	FD4J-1500	660	1350	315	3	120
2000	FD4J-2000	660	1350	315	4	120

3 LAYERS / 300 KN

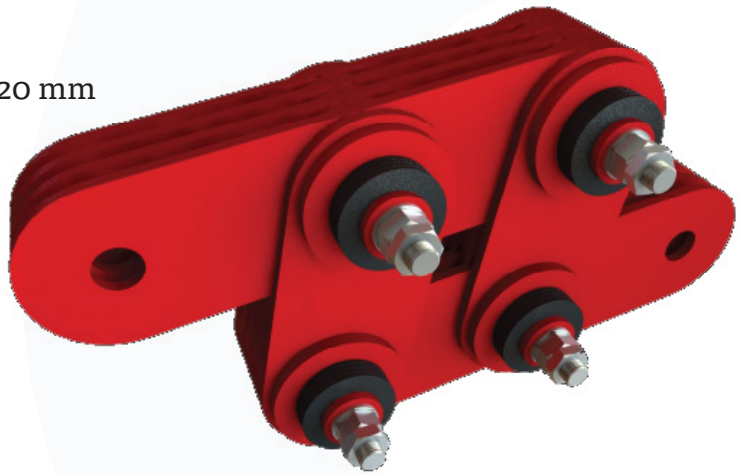
- Displacement amplitude: +/-120 mm
- Capacity: 300 kN (3 layers)
- Pin-to-pin distance: 660 mm
- Plate width: 160 mm

5 LAYERS / 500 KN

- Displacement amplitude: +/-120 mm
- Capacity: 500 kN (5 layers)
- Pin-to-pin distance: 660 mm
- Plate width: 160 mm

4 LAYERS / 2000 KN

- Displacement amplitude: +/-120 mm
- Capacity: 2000 kN (4 layers)
- Pin-to-pin distance: 1000 mm
- Plate width: 315 mm



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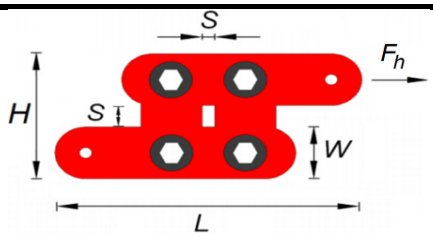
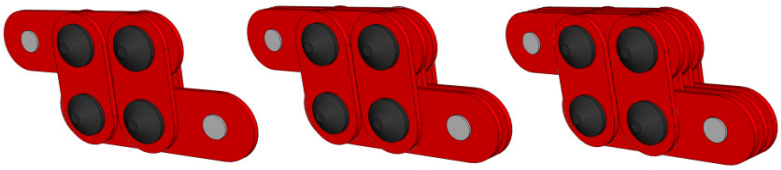
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	H [mm]	L [mm]	W [mm]	t [mm]	S [mm]	n_u	Δ [mm]
500	1	630	1140	300	25	30	1	100
1000	2	630	1140	300	25	30	2	100
1500	3	630	1140	300	25	30	3	100
2000	4	630	1140	300	25	30	3	100
2500	5	630	1140	300	25	30	4	100
3000	6	630	1140	300	25	30	5	100
3500	7	630	1140	300	25	30	6	100
4000	8	630	1140	300	25	30	6	100

F_h - damper capacity
t - plate thickness
Δ - amplitude
n_u - number of units



1 unit 2 units 3 units

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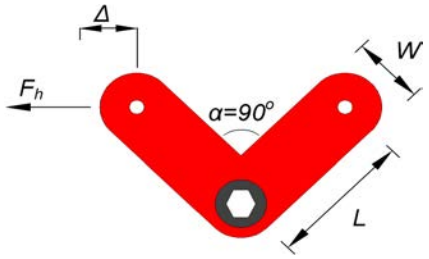
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
10	1	200	150	12	1	20
20	2	200	150	12	1	20
30	3	200	150	12	2	20
40	4	200	150	12	2	20
50	5	200	150	12	3	20
60	6	200	150	12	3	20
70	7	200	150	12	4	20
80	8	200	150	12	4	20
90	9	200	150	12	4	20
100	10	200	150	12	5	20

t **- plate thickness**

Δ **- amplitude**

n_u **- number of units**

1 unit

2 units

3 units

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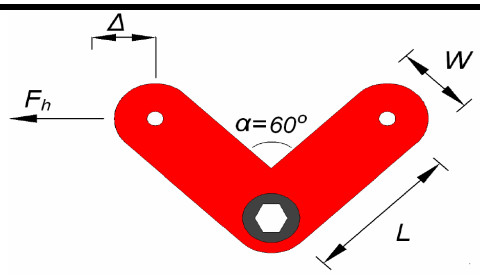
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
15	1	250	150	10	1	50
30	2	250	180	10	1	50
50	3	250	180	10	2	50
75	4	250	180	12	2	50
100	5	250	180	12	3	50
125	6	250	180	12	4	50
150	7	250	180	15	4	50
175	8	250	200	15	4	50
200	9	250	200	15	5	50
250	10	250	200	15	5	50

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit 2 units 3 units

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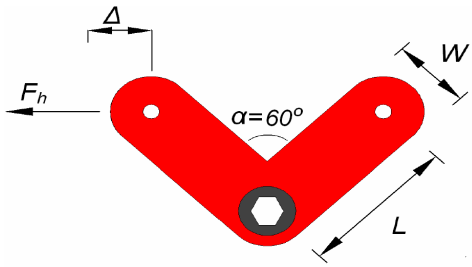
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
15	1	300	150	10	1	100
25	2	300	200	10	1	100
40	3	300	200	10	2	100
50	4	350	200	12	2	100
75	5	350	200	12	3	100
100	6	350	200	12	3	100
125	7	350	200	12	4	100
150	8	350	200	15	4	100
175	9	350	200	15	5	100
200	10	350	220	15	5	100

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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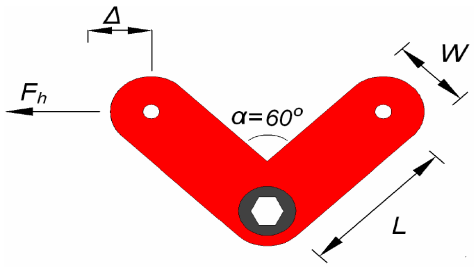
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	No	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
15	1	750	220	10	1	250
30	2	750	250	10	1	250
40	3	750	250	10	2	250
50	4	750	250	12	2	250
75	5	750	280	12	2	250
100	6	750	280	12	3	250
125	7	750	300	15	3	250
150	8	750	320	15	4	250
175	9	750	320	15	4	250
200	10	750	300	15	5	250

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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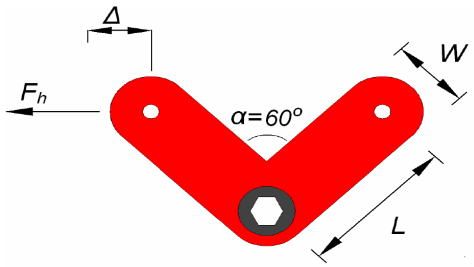
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	No	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
10	1	1200	200	15	1	500
20	2	1200	250	15	1	500
30	3	1200	250	15	2	500
40	4	1200	250	15	2	500
50	5	1200	280	15	2	500
60	6	1200	280	15	2	500
80	7	1200	300	20	3	500
100	8	1200	320	20	3	500
125	9	1200	320	20	4	500
150	10	1200	320	20	5	500

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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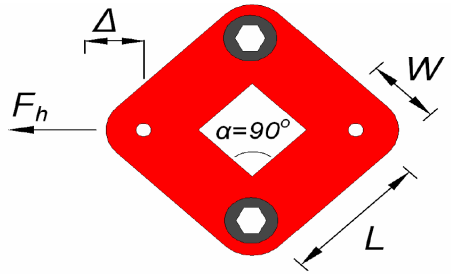

Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
20	1	200	150	12	1	20
40	2	200	150	12	1	20
60	3	200	150	12	2	20
80	4	200	150	12	2	20
100	5	200	150	12	3	20
120	6	200	150	12	3	20
140	7	200	150	12	4	20
160	8	200	150	12	4	20
180	9	200	150	12	4	20
200	10	200	150	12	5	20

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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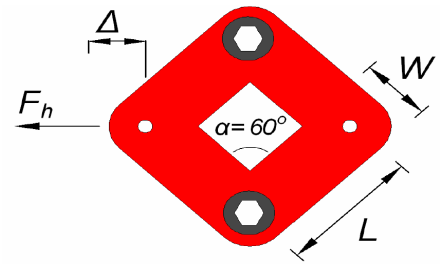
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
30	1	250	150	10	1	50
60	2	250	180	10	1	50
100	3	250	180	10	2	50
150	4	250	180	12	2	50
200	5	250	180	12	3	50
250	6	250	180	12	4	50
300	7	250	180	15	4	50
350	8	250	200	15	4	50
400	9	250	200	15	5	50
500	10	250	200	15	5	50

t - plate thickness

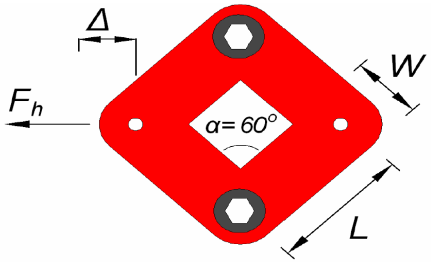
Δ - amplitude

n_u - number of units

1 unit 2 units 3 units

DAMPTECH

DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
25	1	300	150	10	1	100
50	2	300	200	10	1	100
75	3	300	200	10	2	100
100	4	350	200	12	2	100
150	5	350	200	12	3	100
200	6	350	200	12	3	100
250	7	350	200	12	4	100
300	8	350	200	15	4	100
350	9	350	200	15	5	100
400	10	350	220	15	5	100

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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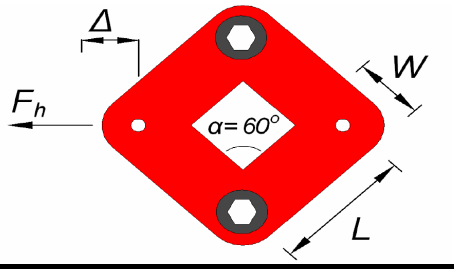

Capacity F_h [kN]	No	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
40	1	750	220	10	1	250
60	2	750	250	10	1	250
80	3	750	250	10	2	250
100	4	750	250	12	2	250
150	5	750	280	12	2	250
200	6	750	280	12	3	250
250	7	750	300	15	3	250
300	8	750	320	15	4	250
350	9	750	320	15	4	250
400	10	750	300	15	5	250

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

DAMPTECH

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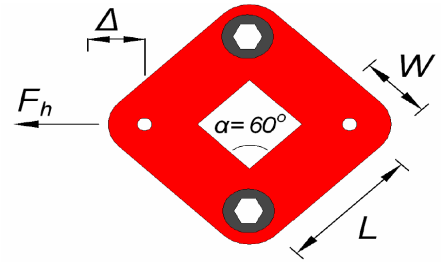


Capacity F_h [kN]	No	L [mm]	W [mm]	t [mm]	n_u	Δ [mm]
20	1	1200	200	15	1	500
40	2	1200	250	15	1	500
60	3	1200	250	15	2	500
80	4	1200	250	15	2	500
100	5	1200	280	15	2	500
125	6	1200	280	15	2	500
175	7	1200	300	15	3	500
200	8	1200	320	15	3	500
250	9	1200	320	15	4	500
300	10	1200	320	15	5	500

t - plate thickness

Δ - amplitude

n_u - number of units

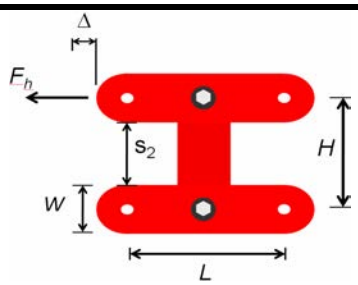
1 unit

2 units

3 units

DAMPTECH

DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	H [mm]	L [mm]	W [mm]	t [mm]	s_2 [mm]	n_u	Δ [mm]
10	1	180	320	150	12	30	1	20
20	2	180	320	150	12	30	1	20
30	3	180	320	150	12	30	1	20
40	4	180	320	150	12	30	1	20
50	5	180	320	150	12	30	2	20
60	6	180	320	150	12	30	2	20
70	7	180	320	150	12	30	2	20
80	8	180	320	150	12	30	2	20
90	9	180	320	150	12	30	3	20
100	10	180	320	150	12	30	3	20
120	11	180	320	150	12	30	3	20

t **- plate thickness**

Δ **- amplitude**

n_u **- number of units**

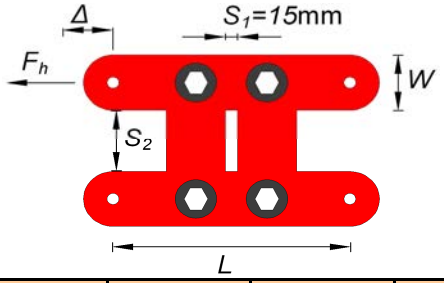
1 unit

2 units

3 units

DAMPTECH

DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	H [mm]	L [mm]	W [mm]	t [mm]	s_2 [mm]	n_u	Δ [mm]
20	1	180	485	150	12	30	1	20
40	2	180	485	150	12	30	1	20
60	3	180	485	150	12	30	1	20
80	4	180	485	150	12	30	1	20
100	5	180	485	150	12	30	2	20
120	6	180	485	150	12	30	2	20
140	7	180	485	150	12	30	2	20
160	8	180	485	150	12	30	2	20
180	9	180	485	150	12	30	3	20
200	10	180	485	150	12	30	3	20
250	11	180	485	150	12	30	3	20

t - plate thickness

Δ - amplitude

n_u - number of units

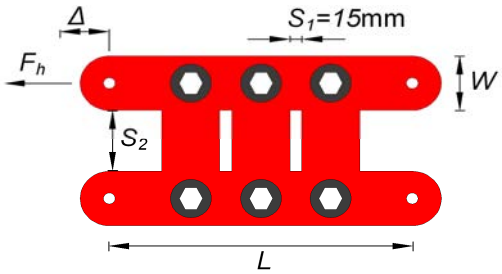
1 unit

2 units

3 units

DAMPTECH

DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	H [mm]	L [mm]	W [mm]	t [mm]	s_2 [mm]	n_u	Δ [mm]
30	1	180	650	150	12	30	1	20
60	2	180	650	150	12	30	1	20
90	3	180	650	150	12	30	1	20
120	4	180	650	150	12	30	1	20
150	5	180	650	150	12	30	2	20
180	6	180	650	150	12	30	2	20
210	7	180	650	150	12	30	2	20
240	8	180	650	150	12	30	2	20
270	9	180	650	150	12	30	3	20
300	10	180	650	150	12	30	3	20
350	11	180	650	150	12	30	3	20

t - plate thickness

Δ - amplitude

n_u - number of units

1 unit

2 units

3 units

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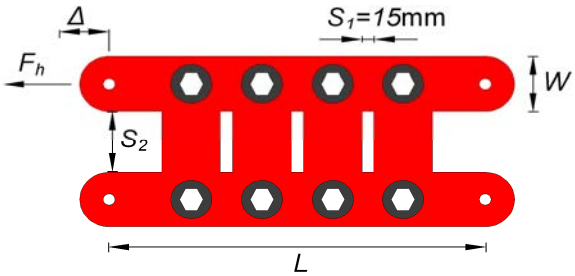
DAMPERS - CAPACITIES AND DIMENSIONS



Capacity F_h [kN]	NO	H [mm]	L [mm]	W [mm]	t [mm]	s_2 [mm]	n_u	Δ [mm]
40	1	180	815	150	12	30	1	20
80	2	180	815	150	12	30	1	20
120	3	180	815	150	12	30	1	20
160	4	180	815	150	12	30	1	20
200	5	180	815	150	12	30	2	20
240	6	180	815	150	12	30	2	20
280	7	180	815	150	12	30	2	20
320	8	180	815	150	12	30	2	20
360	9	180	815	150	12	30	3	20
400	10	180	815	150	12	30	3	20
500	11	180	815	150	12	30	3	20

t **- plate thickness**

Δ **- amplitude**

n_u **- number of units**

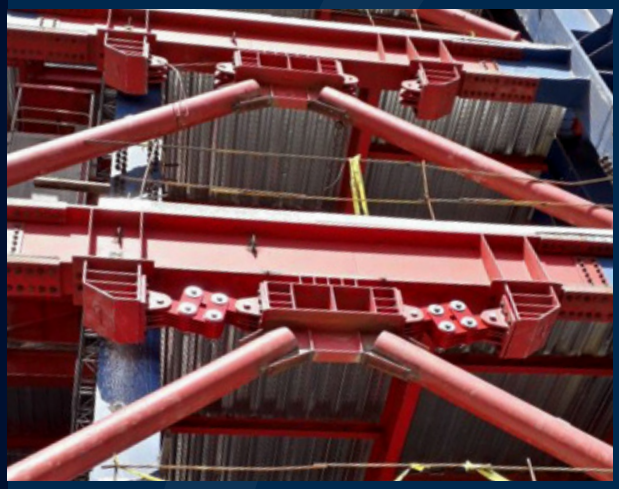
1 unit

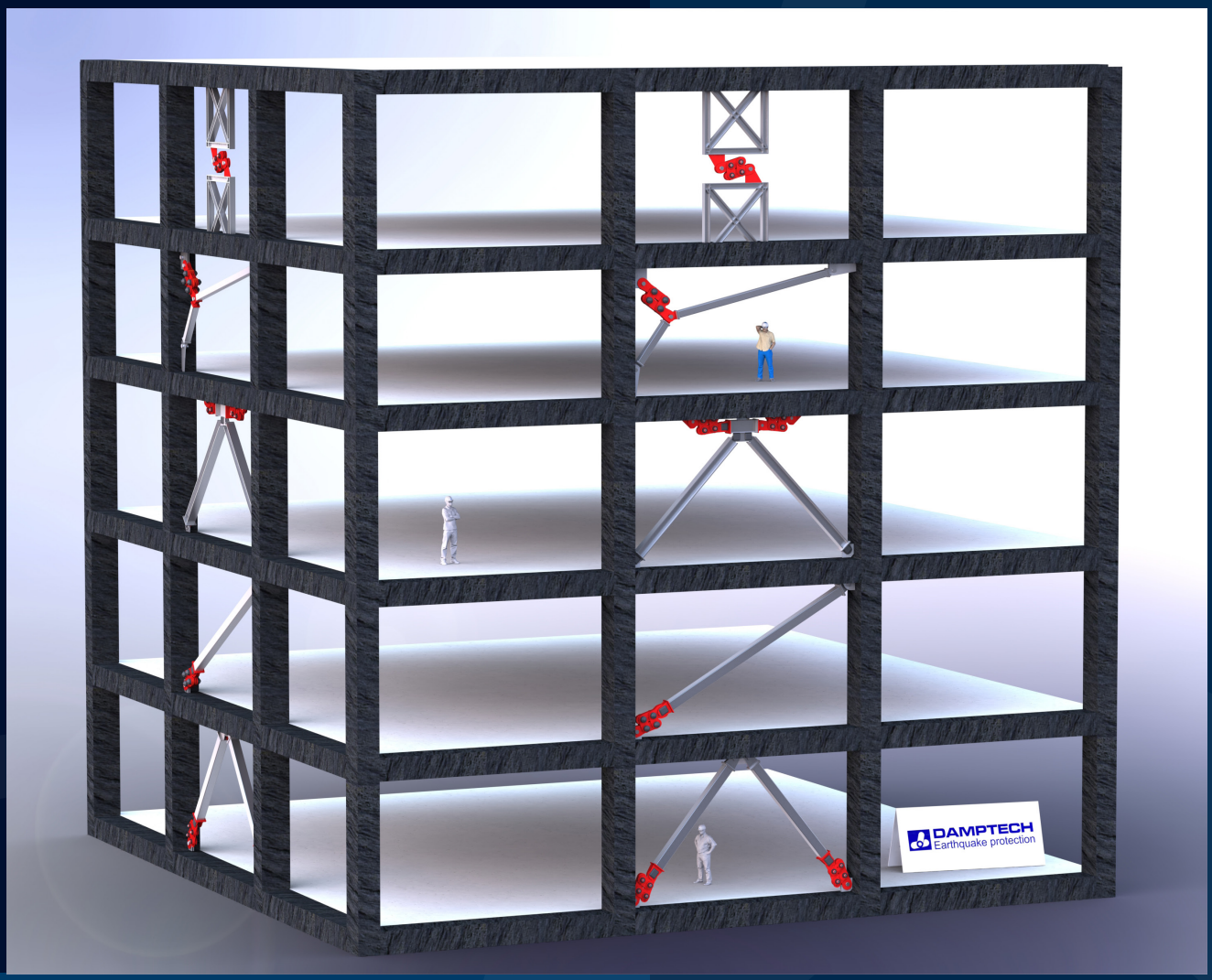
2 units

3 units

ADVANTAGES OF DAMPTECH DAMPERS:

- Reliable performance over lifetime of structure
- Effective damping of up to 50%
- Standard capacities vary from 200 to 2000 kN
- Large capacity is up to 10000 kN
- High flexibility on stroke
- Large displacements of +/-1.5 m are available
- Ideal for retrofitting
- Lower strength requirements
- Easy installation
- Worldwide patents and 23 years of experience





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