

Structural Applications of Taylor Fluid Viscous Dampers

SUMMARY

Total Number of Structures = 612

Buildings = 446

Bridges = 145

Other = 21

Total Number of Dampers = 23,286

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
New Gerald Desmond Bridge	USA, Long Beach, CA	Taylor Fluid Dampers Total: 34 3930 kN ± 813mm stroke 3930 kN ± 1016mm stroke 3470 kN ± 508mm stroke	2016	Seismic	New cable stayed bridge with a main span of 120m and a total length of 1565m uses fused dampers between the towers and bridge deck to limit motion and dissipate seismic energy.
Deryunn JingDing Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 56 500 kN ± 55mm stroke	2015	Seismic	A residential project using viscous dampers to dissipate seismic energy.
Xinchuang Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 52 500 kN ± 55mm stroke	2015	Seismic	A residential project using viscous dampers to dissipate seismic energy.
Arch of Triumph	Romania, Bucharest	Taylor Fluid Dampers Total: 8 1500 kN ± 500mm stroke	2015	Seismic	Long stroke dampers are incorporated in this base isolation project for drift control.
Cow Bayou Bridge	USA, Texas	Taylor Fluid Dampers Total: 1 155 kN 100mm stroke	2015	Impact	Swing bridge application. Buffer used to cushion impact loads upon closing of bridge.
Ever Living Construction	Taiwan, Taipei	Taylor Fluid Dampers Total: 40 500 kN ± 75mm stroke	2015	Seismic	A residential project using viscous dampers to dissipate seismic energy.

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4 Residential Buildings	Indonesia, Jakarta	Taylor Fluid Dampers Total: 289 4000 kN ± 100mm stroke	2015	Seismic	Four high rise residential towers utilize dampers to dissipate seismic energy and reduce drift.
Today's Fresh Start Charter School	USA, Inglewood, CA	Taylor Viscous Dampers Total: 8 160 kN ± 75mm stroke	2015	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Washington Hospital	USA, Fremont, CA	Taylor Viscous Dampers Total: 32 2225 kN ± 915mm stroke	2015	Seismic	New base isolated hospital utilizes dampers at the level of the isolators to reduce displacement and provide energy dissipation.
Yuanfu Sanchong Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 63 500 kN ± 55mm stroke	2015	Seismic	New residential building uses dampers to reduce deflection and provide energy dissipation.
Horngiuu Beitou Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 16 500 kN ± 75mm stroke	2015	Seismic	New residential building uses dampers to reduce deflection and provide energy dissipation.
Shengxing Jinghua Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 6 500 kN ± 75mm stroke	2015	Seismic	New residential building uses dampers to reduce deflection and provide energy dissipation.
Test Stand for a Space Exploration Company	USA	Taylor Viscous Dampers Total: 9 735 kN ± 25mm stroke	2015	Vibration	Dampers used to reduce vibrations in piping for a test facility.
555 Capitol Mall	USA, Sacramento, CA	Taylor Viscous Dampers Total: 16 1500 kN ± 125mm stroke	2015	Seismic	Seismic upgrade of two 14 storey office buildings. Dampers used to reduce displacement and provide energy dissipation.

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High Tech Facility	USA, Santa Clara, CA	Taylor Viscous Dampers Total: 12 1500 kN ± 125mm stroke	2015	Seismic	Voluntary seismic upgrade of a high tech facility.
Nagasaki Government Building	Japan, Nagasaki	Taylor Viscous Dampers Total: 7 1200 kN ± 50mm stroke	2015	Seismic	Dampers used to provide energy dissipation and reduce displacement due to earthquake motion.
Loma Linda University Medical Center	USA, Loma Linda, CA	Taylor Viscous Dampers Total: 82 3000 kN ± 1067mm stroke	2015	Seismic	New base isolated hospital utilizes dampers at the level of the isolators to reduce displacement and provide energy dissipation.
TSMC FAB #15, P5	Taiwan, Tainan	Taylor Viscous Dampers Total: 52 2000 kN ± 75mm stroke	2015	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Phone Company Data Center	Turkey	Taylor Viscous Dampers Total: 12 1700 kN ± 610mm stroke	2015	Seismic	Base isolated structure uses dampers at the level of the isolators to reduce displacement.
Yinchuan Yellow River Bridge	China	Taylor Viscous Dampers Total: 6 5016 kN ± 396mm stroke 2374 kN ± 300mm stroke	2015	Seismic	New bridge uses dampers to control longitudinal movement.
432 Park Avenue	USA, New York, NY	Taylor Viscous Dampers Total: 16 133 kN ± 1016mm stroke	2015	Wind	New 89-story, 426m tall reinforced concrete structure uses dampers as part of a Tuned Mass Damper to improve occupant comfort during wind storms.
Naval Medical Center San Diego	USA, San Diego, CA	Taylor Viscous Dampers Total: 163 900 kN ± 225mm stroke	2015-2016	Seismic	Retrofit of steel moment frame structure uses dampers in diagonal bracing elements to dissipate seismic energy.
29 Palms Naval Hospital	USA, 29 Palms, CA	Taylor Viscous Dampers Total: 53 900 kN ± 225mm stroke	2015	Seismic	Retrofit of steel moment frame structure uses dampers in diagonal bracing elements to dissipate seismic energy.

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181 Fremont Street	USA, San Francisco, CA	Taylor Viscous Dampers Total: 32 2000 kN ± 150mm stroke	2015	Seismic & Wind	Custom long life metal bellows dampers used with megabraces to control seismic and wind vibrations in a new 54-story, 244m tall mixed use building
Shiji Railway Bridge	China, Shandong	Taylor Lock-Up Devices Total: 12 4000 kN ± 150mm stroke	2015	Seismic	New bi-purpose continuous steel truss bridge with 180m main span uses LUDs between the bridge truss and piers to distribute seismic/braking loads.
Boeing Building 3-390	USA	Taylor Viscous Dampers Total: 2 3115 kN ± 325mm stroke	2015	Seismic	Flight test hangar uses external diagonal struts with dampers to absorb seismic energy.
Farglory H99	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 72 1000 kN ± 75mm stroke	2015	Seismic	A residential project consisting of two 23-story SRC buildings, using viscous dampers to dissipate seismic energy.
Academia Sinica	Taiwan, Taipei	Taylor Viscous Dampers Total: 10 1600 kN ± 610mm stroke	2015	Seismic	New 6-story research center project, dampers are installed in a base isolation system to reduce earthquake movement.
CEC B7-Xinyi Building	Taiwan, Taipei City	Taylor Viscous Dampers Total: 208 500 kN ± 55mm stroke	2015	Seismic	A residential project consists of two 31-story steel structures, using viscous dampers to reduce wind-induced vibrations.
12 Moorhouse Avenue	New Zealand, Christchurch	Taylor Viscous Dampers Total: 55 250 kN ± 75mm stroke 500 kN ± 100mm stroke 750 kN ± 100mm stroke 1000 kN ± 100mm stroke	2015	Seismic	Office building application, part of the rebuild from the Christchurch Earthquakes
SFKH Banqiao Financial Center	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 22 1000 kN ± 100mm stroke	2015	Seismic	Fluid viscous dampers are used in this steel structure to reduce vibration under earthquakes.
Sunpo Zhubei	Taiwan, Hsinchu City	Taylor Viscous Dampers Total: 8 500 kN ± 75mm stroke	2015	Seismic	Fluid viscous dampers are used to reduce vibration under earthquakes.
Taoyuan Building	Taiwan, Taoyuan	Taylor Viscous Dampers Total: 36 500 kN ± 75mm stroke	2015	Seismic	New 26-story RC residential building uses dampers to dissipate seismic energy.

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Weihua Taoyuan Building	Taiwan, Taoyuan City	Taylor Viscous Dampers Total: 41 500 kN ± 75mm stroke	2015	Seismic	A residential project using fluid viscous dampers to reduce seismic vibrations.
Insurance Company Office Building	USA, Los Angeles, CA	Taylor Viscous Dampers Total: 22 2700 kN ± 125mm stroke	2015	Seismic	Retrofit of an office building uses dampers to enhance seismic performance.
Banco De La Nacion Building	Peru, Lima	Taylor Viscous Dampers Total: 16 2600 kN ± 75mm stroke	2015	Seismic	New building uses dampers to enhance seismic performance.
Futsang Dazhu Building	Taiwan, Taoyuan City	Taylor Viscous Dampers Total: 20 500 kN ± 55mm stroke	2015	Seismic	A residential project using fluid viscous dampers to reduce seismic vibrations.
Pacifico Insurance Building	Peru, Lima	Taylor Viscous Dampers Total: 48 650 kN ± 75mm stroke	2015	Seismic	New building uses dampers to enhance seismic performance.
Nashua Street Residences	USA, Boston, MA	Taylor Viscous Dampers Total: 30 150 kN ± 250mm stroke	2015	Seismic/Wind	New 38 story residential building uses dampers in toggle braces to reduce acceleration and displacement during wind storms.
Kioi Building	Japan, Tokyo	Taylor Viscous Dampers Total: 269 2000 kN ± 75mm stroke	2015	Seismic	New 162m, 33-story steel frame building for hotel, offices and stores uses dampers to dissipate earthquake energy.
San Diego Central Courthouse	USA, San Diego, CA	Taylor Viscous Dampers Total: 106 2000 kN ± 125mm stroke 1500 kN ± 100mm stroke	2015	Seismic	New 22 story steel moment frame building uses dampers to reduce displacements in the weak direction.
Tu-Cheng "Hi Oasis" Building	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 72 500 kN ± 75mm stroke	2015	Seismic	Fluid viscous dampers are used in two residential buildings to reduce structural responses under earthquakes.
Kentucky Lake Bridge	USA, KY	Taylor Viscous Dampers Total: 24 667 kN ± 305mm stroke 2700 kN ± 305mm stroke	2015	Seismic	Seismic protection of bridge deck at the end bents and main-span piers for an important evacuation route in Kentucky.
Shetang Weihe Bridge	China, Gansu Tianshui	Taylor Viscous Dampers Total: 32 4000 kN ± 450mm stroke 1500 kN ± 450mm stroke	2015	Seismic	New railway continuous beam bridges use dampers to dissipate seismic energy.

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Bosphorous Bridge	Turkey, Istanbul	Taylor Viscous Dampers Total: 4 1700 kN ± 900mm stroke	2015	Seismic	Seismic protection of an existing bridge - one of the busiest crossroads in the world, connecting Asia and Europe.
Panjin Ianhua Pedestrian Bridge	China, Liaoning	Taylor Viscous Dampers Total: 12 5 kN ± 50mm stroke	2015	Pedestrian Induced Vibrations	New Pedestrian Bridge utilizes viscous dampers as part of a tuned mass damping system to control pedestrian induced vibrations.
Ichigaya New Plant	Japan, Tokyo	Taylor Viscous Dampers Total: 34 3500 kN ± 125mm stroke 2500 kN ± 125mm stroke	2015	Seismic	New 27m, 5-story steel frame factory building uses dampers to dissipate earthquake energy.
Xinjian Changji Yaxinjiayuan Building	China, Xinjiang	Taylor Viscous Dampers Total: 15 750 kN ± 75mm stroke	2014-2015	Seismic	Building added 10 stories. Toggle braces with dampers added to reduce earthquake demand.
Rio Tinto Plant #5	USA, CA	Taylor Viscous Dampers Total: 2 250 kN ± 75mm stroke	2014	Seismic	Dampers used to allow thermal movements in a heated piping off-gas system, while providing stability for earthquake shaking and vibrations.
Hebei Normal University Volleyball Pavilion	China, Shijiazhuang	Taylor Viscous Dampers Total: 48 2 kN ± 50mm stroke	2014	Floor Vibrations	New stadium uses dampers in TMDs to reduce floor vibrations.
Costa Del Sol Building	Peru, Lima	Taylor Viscous Dampers Total: 16 500 kN ± 75mm stroke 700 kN ± 75mm stroke	2014	Seismic	New building uses dampers to enhance seismic performance.
Palo Alto Church	USA, Palo Alto, CA	Taylor Viscous Dampers Total: 2 250 kN ± 75mm stroke	2014	Seismic	First Congregational Church uses a pair of dampers to dynamically stabilize/dissipate earthquake energy between masonry cross-wall & wood shear-wall building.
351 California Street	USA, San Francisco, CA	Taylor Viscous Dampers Total: 6 2150 kN ± 125mm stroke	2014	Seismic	Dampers used in diagonal bracing for this voluntary seismic retrofit of a 2-story steel framed building.
Xin-Zhuang Building	Taiwan, New Taipei	Taylor Viscous Dampers Total: 28 500 kN ± 55mm stroke	2014	Seismic	New 22-story RC residential building uses dampers to dissipate seismic energy.
Farglory H105	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 12 500 kN ± 75mm stroke	2014	Seismic	A residential building using fluid viscous dampers to dissipate seismic energy.

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Farglory H88	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 240 1000 kN ± 75mm stroke	2014	Seismic	Fluid viscous dampers are used in two 40-story residential buildings to dissipate seismic energy.
Farglory H113	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 96 1000 kN ± 75mm stroke	2014	Seismic	Fluid viscous dampers are used in this residential buildings to dissipate seismic energy.
Mazzoni Hospital	Italy	Taylor Viscous Dampers Total: 6 350 kN ± 75mm stroke	2014	Seismic	Hospital building uses dampers in diagonal bracing elements to dissipate seismic energy.
Danfeng Building	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 160 500 kN ± 55mm stroke	2014	Seismic	Project consisting five residential buildings uses fluid viscous dampers to dissipate seismic energy.
Pearl Harbor Memorial Bridge	USA, New Haven, CT	Taylor Cable Dampers Total: 96 8 kN ± 50mm stroke	2014	Wind/Rain	New cable-stayed bridge. Dampers attached to cables to reduce vibrations caused by a combination of wind and rain.
Taota Building #21	Taiwan	Taylor Viscous Dampers Total: 40 500 kN ± 75mm stroke	2014	Seismic	Fluid viscous dampers are used in this residential buildings to dissipate seismic energy
Taota Building #22	Taiwan	Taylor Viscous Dampers Total: 80 500 kN ± 75mm stroke	2014	Seismic	Fluid viscous dampers are used in this residential buildings to dissipate seismic energy
Turkcell Maltepe 2	Turkey	Taylor Viscous Dampers Total: 36 750 kN ± 100mm stroke	2014	Seismic	Office building use dampers in diagonal bracing elements to dissipate seismic energy.
Lima Airport	Peru, Lima	Taylor Viscous Dampers Total: 14 1500 kN ± 75mm stroke 750 kN ± 75mm stroke	2014	Seismic	Retrofit of airport terminal uses dampers to improve earthquake protection.
Tower of Hope (Crystal Cathedral)	USA, Garden Grove, CA	Taylor Viscous Dampers Total: 32 1150 kN ± 100mm stroke	2014	Seismic	Retrofit of theater building uses dampers in diagonal braces to reduce displacement and to dissipate seismic energy.
Tianningsi Bridge	China, Beijing	Taylor Viscous Dampers Total: 22 500 kN ± 75mm stroke	2014	Seismic	Retrofit of steel girder bridge. Dampers used between girders and abutments to reduce earthquake displacements.

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Yunnan Longjiang Bridge	China, Yunnan	Taylor Viscous Dampers Total: 8 2850 kN ± 1000mm stroke	2014	Seismic	New suspension bridge with 1196m main span uses dampers between the bridge deck and piers to control the movement due to seismic, vehicle and wind loads.
Ridgefield NWR Pedestrian Bridge	USA, Ridgefield, WA	Taylor Viscous Dampers Total: 6 1 kN ± 75mm stroke	2014	Pedestrian	New pedestrian bridge uses dampers as part of a TMD system to control pedestrian induced vibrations.
GTG Breeze Center	Taiwan, New Taipei	Taylor Viscous Dampers Total: 30 500 kN ± 75mm stroke	2014	Seismic	Project consists of three 20-story RC residential building uses dampers to dissipate seismic energy.
Salem Parking Garage	USA, Salem, MA	Taylor Lock-Up Devices Total: 32 150 kN ± 25mm stroke	2014	Seismic	Lock-up devices used to connect all the building sections together during a seismic event, but allow for thermal motion.
Brielle/Morgan/Shark Bridges	USA, NJ	Taylor Fluid Dampers Total: 3 232 kN 305mm stroke	2014	Kinetic Energy of Moving Bridge	Protection of new bascule leafs from runaway motors and brake failures
Chincoteague Bridge	USA, Chincoteague, VA	Taylor Fluid Dampers Total: 2 475 kN 405mm stroke	2014	Kinetic Energy of Moving Bridge	Protection of new bascule leafs from runaway motors and brake failures
Santa Clarita City Hall	USA, Santa Clarita, CA	Taylor Viscous Dampers Total: 28 1500 kN ± 75mm stroke	2014	Seismic	Retrofit of 3 story building uses dampers to enhance seismic performance and allow the structure to remain functional after a large earthquake.
South 200th Link Light Rail (S440)	USA, Seattle, WA	Taylor Lock-Up Devices Total: 20 2115 kN ± 75mm stroke 1780 kN ± 150mm stroke 2890 kN ± 150mm stroke	2015	Seismic	Elevated light rail system uses shock transmission units to control seismic movement/allow free thermal movement in section near SEATAC airport.
Xinjiang Wuqia Building	China	Taylor Viscous Dampers Total: 72 750 kN ± 75mm stroke	2014	Seismic/Wind	New building uses dampers to enhance seismic performance and reduce wind inducted vibrations.
Farglory H111	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 136 500 kN ± 75mm stroke	2014	Seismic	A residential building uses fluid viscous dampers to dissipate seismic energy.
Farglory H109	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 38 500 kN ± 75mm stroke	2014	Seismic	A residential building uses fluid viscous dampers to dissipate seismic energy.

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Jinghang Canal Bridge	China	Taylor Viscous Dampers Total: 4 1700 kN ± 200mm stroke	2014	Seismic	New cable-stayed bridge uses dampers to protect the structure during earthquakes.
Computa-Floor Vibration	USA	Taylor Viscous Dampers Total: 1 75 kN ± 75mm stroke	2014	Mechanical Vibration	
Yeongi Bridge	Korea	Taylor Viscous Dampers Total: 2 500 kN ± 150mm stroke	2014	Seismic	
Haramain High Speed Railway	Saudi Arabia	Taylor Viscous Dampers Total: 14 500 kN ± 50mm stroke	2014	Seismic	
TSMC FAB #12, P7	Taiwan, Tainan	Taylor Viscous Dampers Total: 44 2000 kN ± 75mm stroke	2013	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
TSMC FAB #14, P7	Taiwan, Tainan	Taylor Viscous Dampers Total: 52 1500 kN ± 75mm stroke	2013	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Xinjiang Atushi Building	China	Taylor Viscous Dampers Total: 56 750 kN ± 75mm stroke	2013	Seismic/Wind	New construction, building uses dampers with toggle braces to reduce motion caused by wind storms.
Bnei Zion Hospital	Israel, Haifa	Taylor Viscous Dampers Total: 20 600 kN ± 75mm stroke	2013	Seismic	Retrofit of a Hospital building uses dampers to dissipate seismic energy in earthquake, by toggle system assembly.
GTG - Century Center	Taiwan, New Taipei	Taylor Viscous Dampers Total: 40 500 kN ± 75mm stroke	2013	Seismic	New project consists of two 23-story RC residential building uses dampers to dissipate seismic energy.
Quinde Mall	Peru, Lima	Taylor Viscous Dampers Total: 8 1400 kN ± 75mm stroke	2013	Seismic	Diagonal braces
Criterion Theater	USA, Los Angeles, CA	Taylor Viscous Dampers Total: 14 1200 kN ± 100mm stroke	2013	Seismic	Dampers used in diagonal braces to improve seismic performance of an historic theater.
Deshengmen Bridge	China, Beijing	Taylor Viscous Dampers Total: 32 500 kN ± 75mm stroke	2013	Seismic	Retrofit of steel girder bridge. Dampers used between girders and abutments to reduce earthquake displacements.

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Andingmen Bridge	China, Beijing	Taylor Viscous Dampers Total: 32 500 kN ± 75mm stroke	2013	Seismic	Retrofit of steel girder bridge. Dampers used between girders and abutments to reduce earthquake displacements.
Farglory H75	Taiwan	Taylor Viscous Dampers Total: 32 1000 kN ± 75mm stroke	2013	Seismic	A residential building uses fluid viscous dampers to dissipate seismic energy.
Quangzhou Bay Bridge	China	Taylor Viscous Dampers Total: 8 2500 kN ± 480mm stroke	2013	Seismic	New cable-stayed bridge with 400m main span uses dampers to protect the structure during earthquakes.
Boeing Building 40-51	USA, Seattle, WA	Taylor Viscous Dampers Total: 17 1780 kN ± 100mm stroke	2013	Seismic	
Zanfu Dunnan Street Building	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 50 1000 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in this residential building to dissipate seismic energy.
Yue Young Xinzhuang Building	Taiwan, New Taipei	Taylor Viscous Dampers Total: 12 500 kN ± 75mm stroke	2013	Seismic	New 16-story RC residential building uses dampers to dissipate seismic energy.
Stonestown Mall - Apple Store	USA, San Francisco, CA	Taylor Viscous Dampers Total: 4 1500 kN ± 75mm stroke	2013	Seismic	
BART - Pleasant Hill Station	USA, Pleasant Hill, CA	Taylor Viscous Dampers Total: 4 1350 kN ± 100mm stroke	2013	Seismic	
Paohuei Taichung	Taiwan, Taichung	Taylor Viscous Dampers Total: 148 500 kN ± 55mm stroke	2013	Seismic	
Tan Mei Office Building	Taiwan, Taipei	Taylor Viscous Dampers Total: 32 600 kN ± 75mm stroke	2013	Seismic	Project consists of two 12-story SC office building uses dampers to dissipate seismic energy.
Steel Mill Recuperator	USA, Burns Harbor, IN	Taylor Lock-Up Devices Total: 28 500 kN ± 100mm stroke	2013		Aging recuperator stacks utilize Lock-Up Devices to prevent total collapse as a result of cracking in the stacks.

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Farglory H108	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 16 500 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in this residential building to dissipate seismic energy.
Farglory H89	Taiwan, Xinbei City	Taylor Viscous Dampers Total: 47 500 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in this residential building to dissipate seismic energy.
Jiangshan Project	Taiwan	Taylor Viscous Dampers Total: 4 500 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in this residential building to dissipate seismic energy.
Gilbert House	USA, CA	Taylor Viscous Dampers Total: 13 133 kN ± 75mm stroke	2013	Seismic	
Haneda Airport	Japan, Tokyo	Taylor Viscous Dampers Total: 8 2000 kN ± 125mm stroke	2013	Seismic	New 5-story steel frame building for the facilities of the airport, connects new 7-story steel frame 2 buildings for facilities of the airport like a bridge. The space beneath the bridge, between the 2 buildings is vacant with no structure. Dampers used to dissipate earthquake energy.
Yelin Zhubei	Taiwan, Hinzhu	Taylor Viscous Dampers Total: 20 500 kN ± 55mm stroke	2013	Seismic	New 19-story RC residential building uses dampers to dissipate seismic energy.
Chicony Electronics HQ	Taiwan, New Taipei	Taylor Viscous Dampers Total: 100 1000 kN ± 75mm stroke	2013	Seismic/Wind	New 39-story SRC office building uses dampers to dissipate seismic & wind energy.
TSMC FAB #14, P6	Taiwan, Tainan	Taylor Viscous Dampers Total: 52 1500 kN ± 75mm stroke	2013	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Farglory H106	Taiwan, Taipei City	Taylor Viscous Dampers Total: 92 1000 kN ± 75mm stroke	2013	Seismic	Residential project uses fluid viscous dampers to dissipate seismic energy.
Yoji Daheng Project	Taiwan, Taichung City	Taylor Viscous Dampers Total: 134 750 kN ± 50mm stroke	2013	Seismic	Fluid viscous dampers are used in steel structure to reduce wind vibrations.
Huaku Song-Jiang Project	Taiwan, Taipei City	Taylor Viscous Dampers Total: 16 1000 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in steel structure to reduce vibrations under earthquakes.

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TSMC FAB #124, P5/P6	Taiwan, Tainan	Taylor Viscous Dampers Total: 29 1500 kN ± 75mm stroke	2013	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Haramain High Speed Railway	Saudi Arabia	Taylor Viscous Dampers Total: 34 500 kN ± 50mm stroke	2013	Seismic	
Farglory H102	Taiwan, Taichung City	Taylor Viscous Dampers Total: 72 500 kN ± 75mm stroke	2013	Seismic	Fluid viscous dampers are used in steel structure to dissipate seismic energy.
Danish Marine Museum	Denmark, Helsingor	Taylor Viscous Dampers Total: 3 20 kN ± 111mm stroke	2013	Pedestrian	Dampers used to reduce vibrations and improve pedestrian comfort.
Kichijyouji Station	Japan, Tokyo	Taylor Viscous Dampers Total: 75 500 kN ± 75mm stroke	2013	Seismic	New 10-story steel frame building for station/offices uses dampers to dissipate earthquake energy.
Farglory H96	Taiwan, New Taipei	Taylor Viscous Dampers Total: 44 1000 kN ± 75mm stroke	2013	Seismic	New 23-story RC residential building uses viscous dampers to dissipate seismic energy.
Qinshi #3 Provence	Taiwan, YiLan	Taylor Viscous Dampers Total: 4 2000 kN ± 610mm stroke	2013	Seismic	Long Stroke dampers are incorporated in this base isolation project for drift control
Farglory H93	Taiwan, New Taipei	Taylor Viscous Dampers Total: 92 1000 kN ± 75mm stroke	2013	Seismic	Project consists of three 23-story RC residential buildings that use viscous dampers to dissipate seismic energy.
Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48 2000 kN ± 450mm stroke	2012	Seismic	
Jiangxi Jiujiang Bridge	China	Taylor Viscous Dampers Total: 8 1500 kN ± 850mm stroke	2012	Seismic	
Yahoo Phase 2	USA, Santa Monica, CA	Taylor Viscous Dampers Total: 70 2000 kN ± 100mm stroke	2012	Seismic	Voluntary seismic upgrade uses dampers to dissipate seismic energy.
Chiba Station West Gate	Japan, Chiba	Taylor Viscous Dampers Total: 16 1100 kN ± 50mm stroke	2012	Seismic	New 11-story steel frame office/commercial building uses dampers to dissipate seismic energy.

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Portland Galleria Bldg.	USA, Portland, OR	Taylor Viscous Dampers Total: 64 778 kN ± 100mm stroke 1445 kN ± 100mm stroke 1780 kN ± 100mm stroke	2012	Seismic	Historic, terra cotta clad, 5-story, full block department store building constructed in 1910. Riveted steel frame to be protected by dampers in chevron drivers dissipating seismic energy.
CE Reducto Gerpal Building	Peru, Lima	Taylor Viscous Dampers Total: 30 1400 kN ± 100mm stroke	2012	Seismic	New building uses dampers to dissipate seismic energy.
New Nonsan Grand Bridge	Korea, Nonsan	Taylor Viscous Dampers Total: 8 750 kN ± 150mm stroke	2012	Seismic	Seismic retrofit of a 500m, multi-span, steel girder bridge.
Byeongjeom Bridge	Korea, Hwaseong	Taylor Viscous Dampers Total: 32 9 kN ± 50mm stroke	2012	Seismic	Tuned Mass Damper (TMD) System used to control vertical vibrations caused by vehicle traffic.
Three Gorges Ship Lift	China, Wuhan	Taylor Viscous Dampers Total: 3 1500 kN ± 100mm stroke	2012	Seismic	
Patio Mayor Project #945	Chile	Taylor Viscous Dampers Total: 36 550 kN ± 75mm stroke	2012	Seismic	
Dexin Hsin-Chu A+7	Taiwan, Hsin Chu	Taylor Viscous Dampers Total: 66 500 kN ± 75mm stroke	2012	Seismic	New SRC residential building uses viscous dampers to dissipate seismic energy.
Qinshi #3 Tuscany	Taiwan, YiLan	Taylor Viscous Dampers Total: 8 500 kN ± 500mm stroke	2012	Seismic	Long Stroke dampers are incorporated in this base isolation project for drift control
Forworld Fuzhong	Taiwan, New Taipei	Taylor Viscous Dampers Total: 60 50 kN ± 75mm stroke	2012	Seismic	New SRC residential building uses viscous dampers to dissipate seismic energy.
Corning Tainan Building A	Taiwan, Tainan	Taylor Viscous Dampers Total: 137 2000 kN ± 75mm stroke 2700 kN ± 75mm stroke 1700 kN ± 75mm stroke 2500 kN ± 75mm stroke	2012	Seismic	Uses dampers to dissipate earthquake energy.
Ruentex Botanical Gardens	Taiwan, Taipei	Taylor Viscous Dampers Total: 6 1000 kN ± 750mm stroke 2000 kN ± 750mm stroke	2012	Seismic	Long Stroke dampers are incorporated in this base isolation project for drift control

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Digua Building		Taylor Viscous Dampers Total: 16 1500 kN ± 100mm stroke	2012	Seismic	
Corning Taichung Phase 1	Taiwan, Taichung	Taylor Viscous Dampers Total: 102 2800 kN ± 75mm stroke 3500 kN ± 125mm stroke 3300 kN ± 100mm stroke	2012	Seismic	Uses dampers to dissipate earthquake energy.
Corning Tainan Building B	Taiwan, Tainan	Taylor Viscous Dampers Total: 110 2700 kN ± 75mm stroke 3500 kN ± 100mm stroke 3100 kN ± 100mm stroke 4900 kN ± 120mm stroke 4600 kN ± 120mm stroke 4300 kN ± 120mm stroke 3900 kN ± 100mm stroke	2012	Seismic	Uses dampers to dissipate earthquake energy.
Vida Security	Chile	Taylor Viscous Dampers Total: 84 650 kN ± 100mm stroke	2012	Seismic	
Canberra Bridge	Australia	Taylor Viscous Dampers Total: 4 500 kN ± 100mm stroke	2012	Seismic	
Chonghong Xihu	Taiwan, Taipei	Taylor Viscous Dampers Total: 112 1000 kN ± 75mm stroke 500 kN ± 75mm stroke	2012	Seismic	New 28-story SRC residential building uses viscous dampers to dissipate seismic energy.
Talca Hospital	Chile	Taylor Viscous Dampers Total: 40 500 kN ± 75mm stroke	2012	Seismic	
Papermart	USA, Orange, CA	Taylor Viscous Dampers Total: 4 735 kN ± 75mm stroke	2012	Seismic	
Beehive Clothing	USA, Utah	Taylor Viscous Dampers Total: 8 1500 kN ± 2" stroke 3000 kN ± 2" stroke	2012	Seismic	
Taota #20 Project	Taiwan, Taoyuan	Taylor Viscous Dampers Total: 16 500 kN ± 75mm stroke	2012	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Uni-President Zhubei	Taiwan, Hsin Chu	Taylor Viscous Dampers Total: 28 500 kN ± 75mm stroke	2012	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.
Corning Taichung Phase 2	Taiwan, Taichung	Taylor Viscous Dampers Total: 99 2500 kN ± 75mm stroke 2800 kN ± 75mm stroke 3600 kN ± 75mm stroke 3200 kN ± 75mm stroke 4200 kN ± 100mm stroke	2012	Seismic	Uses dampers to dissipate earthquake energy.
San Bernardino Justice	USA, San Bernardino, CA	Taylor Viscous Dampers Total: 184 2000 kN ± 125mm stroke	2012	Seismic	
Win Sing Xin Yi G1	Taiwan, Taipei	Taylor Viscous Dampers Total: 120 500 kN ± 55mm stroke 800 kN ± 75mm stroke	2012	Seismic	New SRC residential building uses viscous dampers to dissipate seismic energy.
New Jerusalem Elementary School	USA, Tracy, CA	Taylor Viscous Dampers Total: 8 160 kN +/- 75mm stroke	2012	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
TSMC FAB #15, Phase 3	Taiwan, Taichung	Taylor Viscous Dampers Total: 28 2000 kN± 75mm stroke	2012	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Farglory H90	Taiwan, New Taipei	Taylor Viscous Dampers Total: 80 1000 kN ± 75mm stroke	2012	Seismic	New 24-story RC residential building uses viscous dampers to dissipate seismic energy.
Farglory H91	Taiwan, New Taipei	Taylor Viscous Dampers Total: 44 1000 kN ± 75mm stroke	2012	Seismic	New 23-story RC residential building uses viscous dampers to dissipate seismic energy.
Farglory H92	Taiwan, New Taipei	Taylor Viscous Dampers Total: 44 1000 kN ± 75mm stroke	2012	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.
Taifer Nangang	Taiwan, Taipei	Taylor Viscous Dampers Total: 56 500 kN ± 75mm stroke	2012	Seismic	New SRC residential building uses viscous dampers to dissipate seismic energy.
Chengmao Xinzhuang	Taiwan, New Taipei	Taylor Viscous Dampers Total: 28 500 kN ± 75mm stroke	2012	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.
Tianjin Guomao	China, Tianjin	Taylor Viscous Dampers Total: 12 500 kN ± 75mm stroke	2012	Seismic	

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Luzhou 709	Taiwan, New Taipei	Taylor Viscous Dampers Total: 14 500 kN ± 75mm stroke	2012	Seismic	New 11- story RC residential project uses dampers to dissipate earthquake energy.
Taipower Wang Long	Taiwan, Taipei	Taylor Viscous Dampers Total: 271 500 kN ± 50mm stroke 1000 kN ± 50mm stroke	2012	Seismic	New 15-story SRC electrical substation uses dampers to reduce seismic responses.
3300 Webster	USA, Oakland, CA	Taylor Viscous Dampers Total: 12 750 kN ± 150mm stroke 1500 kN ± 150mm stroke	2012	Seismic	
Pismo Beach Athletic Club	USA, Pismo Beach, CA	Taylor Viscous Dampers Total: 10 135 kN ± 75mm stroke	2012	Seismic	
TSMC FAB #14, P5	Taiwan, Tainan	Taylor Viscous Dampers Total: 52 1500 kN ± 75mm stroke	2012	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Haramain HSR	Saudi Arabia	Taylor Viscous Dampers Total: 64 500 kN ± 75mm stroke	2012	Seismic	
Fubon Dun-Nan	Taiwan, Taipei	Taylor Viscous Dampers Total: 28 1000 kN ± 100mm stroke 1500 kN ± 100mm stroke	2012	Seismic	New 17-story steel residential building uses viscous dampers to dissipate seismic energy.
Santiago Creek Bridge	USA, Irvine, CA	Taylor Viscous Dampers Total: 6 700 kN ± 381mm stroke	2011	Seismic	
Corning Taichung Phase 4	Taiwan, Taichung	Taylor Viscous Dampers Total: 65 4500 kN ± 125mm stroke 4200 kN ± 100mm stroke 3900 kN ± 75mm stroke 3500 kN ± 75mm stroke	2011	Seismic	Uses dampers to dissipate earthquake energy.
Mumbai Airport	India, Mumbai	Taylor Viscous Dampers Total: 66 250 kN ± 75mm stroke	2011	Seismic	
Yihua Dazhi	Taiwan, Taipei	Taylor Viscous Dampers Total: 265 1000 kN ± 75mm stroke	2011	Seismic	Project includes two 42-story SRC residential buildings and one 39-story SRC hotel building. Dampers are used to reduce seismic responses.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Marneris (Greece) Protas Eniskyes	Greece	Taylor Viscous Dampers Total: 16 250 kN ± 75mm stroke	2011	Seismic	Seismic upgrade of a 6-story residential building. Dampers used in diagonal braces to dissipate seismic energy.
Corning Taichung Phase 3	Taiwan, Taichung	Taylor Viscous Dampers Total: 90 1000 kN ± 100mm stroke 1200 kN ± 100mm stroke 1500 kN ± 150mm stroke 1800 kN ± 75mm stroke 2000 kN ± 125mm stroke 2500 kN ± 175mm stroke	2011	Seismic	Uses dampers to dissipate earthquake energy.
Las Condes Capital	Chile	Taylor Viscous Dampers Total: 46 850 kN ± 100mm stroke	2011	Seismic	
TSMC #12 P6	Taiwan, Hsin Chu	Taylor Viscous Dampers Total: 40 2000 kN ± 75mm stroke	2011	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
Farglory H85	Taiwan, New Taipei	Taylor Viscous Dampers Total: 96 1000 kN ± 75mm stroke	2011	Seismic	New 25-story RC residential building uses viscous dampers to dissipate seismic energy.
Farglory H86	Taiwan, New Taipei	Taylor Viscous Dampers Total: 128 1000 kN ± 75mm stroke	2011	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.
2020 Lawrence	USA, Denver, CO	Taylor Viscous Dampers Total: 10 225 kN ± 50mm stroke	2011	Seismic	
Taota Taoyuan 19th	Taiwan, Taoyuan	Taylor Viscous Dampers Total: 40 500 kN ± 75mm stroke	2011	Seismic	New RC residential building uses viscous dampers to dissipate seismic energy.
Chinatrust Headquarters	Taiwan, Taipei	Taylor Viscous Dampers Total: 367 1500 kN ± 75mm stroke 1000 kN ± 75mm stroke 1000 kN ± 80mm stroke	2011	Seismic	Dampers are installed in this steel structure to reduce structural responses in earthquakes.
Carranza Stadium	Spain	Taylor Viscous Dampers Total: 2 500 kN ± 75mm stroke	2011	Seismic	Dampers used to protect the roof of a new stadium.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Corning Taichung P6M	Taiwan, Taichung	Taylor Viscous Dampers Total: 98 1860 kN ± 50mm stroke 2720 kN ± 50mm stroke 2720 kN ± 75mm stroke 2720 kN ± 100mm stroke 2720 kN ± 125mm stroke 3400 kN ± 150mm stroke	2011	Seismic	Uses dampers to dissipate earthquake energy.
125 Rue Faubert	Haiti	Taylor Viscous Dampers Total: 20 26,000 kN ± 4" stroke	2011	Seismic	
Unibank Haiti	Haiti	Taylor Viscous Dampers Total: 16 25800 kN ± 4" stroke	2011	Seismic	
Cementos Bio Bio	Chile	Taylor Viscous Dampers Total: 1 25 MT ± 75mm stroke	2011	Seismic	
Carranza Stadium	Spain	Taylor Viscous Dampers Total: 2 500 kN ± 75mm stroke	2011	Seismic	
Chochun 2nd Bridge	Korea, Yeongi	Taylor Viscous Dampers Total: 2 500 kN ± 150mm stroke	2011	Seismic	Seismic retrofit of a 150m, multi-span, PSC-beam bridge.
QVC Japan Project	Japan, Chiba	Taylor Viscous Dampers Total: 8 1450 kN ± 610mm stroke	2011	Seismic	Dampers used as part of a base isolation system for a new 7 story 37,174 m ² steel frame building.
Rosario North Project	Chile	Taylor Viscous Dampers Total: 52 650 kN ± 100mm stroke	2011	Seismic	
Shomyo Project	Japan, Yokohama City Kanagawa	Taylor Viscous Dampers Total: 38 700 kN ± 100mm stroke 1000 kN ± 100mm stroke 1250 kN ± 100mm stroke 1750 kN ± 100mm stroke	2011	Seismic	New 6-story fixed base steel frame building uses dampers in diagonal braces to absorb earthquake energy.
Yahoo Center	USA, Santa Monica, CA	Taylor Viscous Dampers Total: 60 45,000 kN ± 4" stroke	2011	Seismic	
Kimpo Airport	Korea	Taylor Viscous Dampers Total: 36 500 kN ± 100mm stroke 2000 kN ± 100mm stroke 2000 kN ± 100mm stroke	2011	Seismic	Seismic retrofit of terminal buildings. Some dampers were installed at expansion joints and others were installed in toggle braces. Lock-Up Devices were used to control seismic movement while allowing free thermal movement.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Corning Beijing	China	Taylor Viscous Dampers Total: 59 800 kN 800 kN 1150 kN 1150 kN	2011	Seismic	
BC Place Stadium	Canada, Vancouver, BC	Taylor Viscous Dampers Total: 96 2000 kN ± 60mm stroke 1500 kN ± 50mm stroke	2011	Seismic	Retrofit of football stadium for seismic protection and to act as an emergency shelter for Vancouver, BC.
Beijing Fuchengmen Bridge	China, Beijing	Taylor Viscous Dampers Total: 20 500 kN Fluid ± 75mm stroke	2011	Seismic	Retrofit of elevated highway bridge uses dampers to control vibration due to vehicle and earthquake.
Cal Memorial Stadium	USA, Berkeley, CA	Taylor Viscous Dampers Total: 16 2000 kN Fluid ± 125mm stroke	2011	Seismic	
DAK Americas Silo #2	USA, Leland, NC	Taylor Dampers Total: 20 490 kN ± 100mm stroke	2011	Seismic	
DEH Cho Bridge	Canada, Northwest Territories	Taylor Lock up Devices Total: 40 739 kN ± 270mm stroke	2011	Seismic	This cable-stayed, new bridge will span the Mackenzie River near Fort Providence & is intended to replace the operations of the Merv Hardie Ferry & the Mackenzie Ice Crossing, available to link for all seasons.
Farglory H68 Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 48 50 MT Damper ± 75mm stroke	2011	Seismic	New RC residential project uses dampers to dissipate earthquake energy.
Farglory H72 Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 65 600 kN ± 75mm stroke	2011	Seismic	New SRC residential project uses dampers to dissipate earthquake energy.
Farglory H73 Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 80 500 kN ± 75mm stroke	2011	Seismic	New RC residential project uses dampers to dissipate earthquake energy.
Farglory H80 Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 12 500 kN ± 75mm stroke	2011	Seismic	New 12-story RC residential project uses dampers to dissipate earthquake energy.
Fashion Island Theater	USA, Newport Beach, CA	Taylor Viscous Dampers Total: 20 735 kN ± 100mm stroke 1000 kN ± 300mm stroke 1500 kN ± 400mm stroke 1000 kN ± 200mm stroke	2011	Seismic	Voluntary seismic upgrade of pre-Northridge construction theatre building, uses viscous dampers in the structural frame to reduce seismic response.
Fu Yu Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 4 150 kN ± 25mm stroke	2011	Seismic	

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Fujian Wulongjiang Bridge	China, Fujian	Taylor Lock up Devices Total: 4 6000 kN ± 300mm stroke	2011	Seismic	Lock-up Devices used to control seismic movement while allowing free thermal movement.
Global Team Group #236	Taiwan, Taipei	Taylor Viscous Dampers Total: 14 500 kN ± 75mm stroke	2011	Seismic	New 21-story RC residential project uses dampers to dissipate earthquake energy.
Global Team Group #30	Taiwan, Taipei	Taylor Viscous Dampers Total: 8 500 kN ± 75mm stroke	2011	Seismic	New 17- story RC residential project uses dampers to dissipate earthquake energy.
He Huan Hsin-Dien Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 224 500 kN ± 100mm stroke	2011	Seismic	New 29-story SRC residential project uses dampers to reduce vibrations caused by earthquake.
Henley Street Bridge	USA, Knoxville, TN	Taylor Lock up Devices Total: 20 200 kN ± 75mm stroke 750 kN ± 100mm stroke	2011	Seismic	Demolition and replacement of the 1,793 foot bridge deck and the vertical, concrete supports above the arches, addition of a sixth lane to this 79 year old span across Fort Loudoun Lake.
Hsin-Lung Nan-Hai	Taiwan, Taipei	Taylor Viscous Dampers Total: 2 500 kN ± 75mm stroke	2011	Seismic	New SRC residential project uses dampers to dissipate earthquake energy.
Huaku & Taifer Nan-Gang H6 Project	Taiwan, Taipei	Taylor Dampers Total: 20 900 kN ± 812mm stroke	2011	Seismic	New 18-story residential project, dampers are installed with base isolation system to reduce earthquake movement.
Huaku Hsin Chu	Taiwan, HisnChu	Taylor Viscous Dampers Total: 16 1000 kN ± 75mm stroke	2011	Seismic	New 25-story SRC residential building uses dampers to dissipate earthquake.
Huaku Ji-Lin Project B	Taiwan, Taipei	Taylor Viscous Dampers Total: 8 1000 kN ± 75mm stroke	2011	Seismic	New 14-story SRC residential building uses dampers to dissipate earthquake.
Huaku V-Park	Taiwan, Taipei	Taylor Viscous Dampers Total: 36 500 kN ± 75mm stroke	2011	Seismic	New construction, a 16-story SRC business building uses dampers to dissipate seismic energy.
LeTerrazze Shopping Center	Italy, La Spezia	Taylor Lock up Devices Total: 55 1000 kN ± 50mm stroke 2000 kN ± 50mm stroke	2011	Seismic	Lock-up devices used to link different structural units of a prefabricated concrete building, under seismic actions, thus leaving them separated during normal service.
Moonam Bridge	Korea, Goseong	Taylor Viscous Dampers Total: 4 500 kN ± 100mm stroke	2011	Seismic	Seismic retrofit of a 120 m multi-span PSC beam bridge using dampers.
New Janghowon Bridge	Korea, Eumseong	Taylor Viscous Dampers Total: 8 500 kN ± 100mm stroke	2011	Seismic	Seismic retrofit of a 240 m multi-span PSC beam bridge using dampers.
Newton Reservoir	Canada, Surrey, BC	Taylor Viscous Dampers Total: 16 1000 kN ± 50mm stroke	2011	Seismic	

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
RCMP Richmond Community Safety Building	Canada, Richmond, BC	Taylor Dampers Total: 20 600 kN ± 100mm stroke	2011	Seismic	This project is to upgrade to post-disaster standards and to renovate the existing building to accommodate the new RCMP Richmond Headquarters.
Sunpo Hong-Yun Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 8 500 kN ± 75mm stroke	2011	Seismic	New 19-story RC building, uses dampers to dissipate earthquake energy.
Taichung Factory, P5 & P6	Taiwan, Taichung	Taylor Viscous Dampers Total: 117 5400 kN ± 50mm stroke 4300 kN ± 150mm stroke 3600 kN ± 175mm stroke 3400 kN ± 175mm stroke 2700 kN ± 150mm stroke 1860 kN ± 50mm stroke	2011	Seismic	
Nanguo The Ellipse 360 Tower	Taiwan, Taipei	Taylor Viscous Dampers Total: 153 1000 kN ± 75mm stroke	2011	Seismic	New steel construction, a 28-story residential project uses dampers to reduce vibration caused by wind forces.
Tiangjin Qinghuangdao Bridge	China, Beijing	Taylor Lock up Devices Total: 50 4000 kN ± 100mm stroke 4500 kN ± 100mm stroke 5000 kN ± 100mm stroke	2011	Seismic	New railway bridge use Lock-up Devices to control bridge deck movement during seismic events.
Tonglou Interchange	Taiwan, Taipei	Taylor Viscous Dampers Total: 24 1200 kN ± 100mm stroke	2011	Seismic	Retrofit of a Highway Interchange uses lock-up devices to control longitudinal movement in earthquake, while allowing free thermal movement.
TSMC Fab #12, P3	Taiwan, Hsin Chu City	Taylor Viscous Dampers Total: 20 1200 kN ± 75mm stroke	2011	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
TSMC Fab #15, P1	Taiwan, Taichung	Taylor Viscous Dampers Total: 14 200 kN ± 75mm stroke	2011	Seismic	New semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
TSMC Fab #15, P2	Taiwan, Taichung	Taylor Viscous Dampers Total: 14 2000 kN ± 75mm stroke	2011	Seismic	New semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.
WG Group	Taiwan, Taipei	Taylor Viscous Dampers Total: 38 50 MT ± 75mm stroke 50 MT FVED ± 50mm stroke	2011	Seismic	New construction, a 26-story RC residential project, uses dampers to reduce earthquake vibrations.
Wuhan Poly Building	China, Wuhan	Taylor Viscous Dampers Total: 62 1000 kN ± 100mm stroke 1200 kN ± 75mm stroke	2011	Seismic	New structure uses dampers to absorb earthquake energy and reduce deflection and stress.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Xiazhang Bridge	China, Xiamen	Taylor Viscous Dampers Total: 16 8000 kN ± 450mm stroke 3500 kN ± 650mm stroke	2011	Seismic	Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.
Yuetai Fengfan	Taiwan, Taipei	Taylor Viscous Dampers Total: 18 500 kN ± 75mm stroke	2011	Seismic	New 33-story SRC residential project uses dampers supported by vertical steel frames to dissipate earthquake energy.
Nangang ditch 3rd Bridge	Korea, Hamyang	Taylor Viscous Dampers Total: 8 1000 kN ± 300mm stroke	2011	Seismic	Seismic retrofit of a 530 m multi-span PSC box girder bridge using dampers.
Lien-Guan Nan Ganng	Taiwan, Taipei	Taylor Viscous Dampers Total: 8 500 kN ± 75mm stroke	2011	Seismic	New RC residential project uses dampers to dissipate earthquake energy.
Chung-An Pedestrian Bridge	Taiwan, Taipei	Taylor Viscous Dampers Total: 4 500 kN ± 100mm stroke 500 kN ± 200mm stroke	2011	Seismic	New Pedestrian bridge project uses dampers to reduce wind movement.
Pinnacle Tower	UK, London	Taylor Viscous Dampers Total: 12 1800 kN ± 51mm stroke	2010	Wind	Dampers installed in a tall building to reduce the effects of wind loading. The dampers allowed a reduction in structural costs while improving occupant comfort.
Adams Middle School	USA, Redondo Beach, CA	Taylor Viscous Dampers Total: 8 160 kN ± 75mm stroke	2010	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Alexandra Bridge	Canada, Ottawa, Ontario	Taylor Viscous Dampers Total: 8 1 kN ± 100mm stroke	2010	Pedestrian	This circa 1901 railway bridge was converted to a auto and pedestrian traffic in the 1970's. The TMD's were found to be required after a spike in pedestrian traffic caused excessive vibration during the July 1st "Canada Day" festivities.
Apollo Hospital	India, New Delhi	Taylor Viscous Dampers Total: 32 500 kN ± 100mm stroke	2010	Seismic	Seismic retrofit of lobby block of an existing functional hospital to meet the revised seismic code. 32 fluid viscous dampers were used to dissipate seismic energy and reduce vibrations in earthquake. The work was accomplished without having to stop hospital operations.
Cesar Chavez Middle School	USA, Planada, CA	Taylor Viscous Dampers Total: 8 107 kN ± 75mm stroke	2010	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Chaparral Middle School	USA, Diamond Bar, CA	Taylor Viscous Dampers Total: 8 160 kN ± 75mm stroke	2010	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Daesung Bridge	Korea, Gapyeong	Taylor Viscous Dampers Total: 6 500 kN ± 100mm stroke	2010	Seismic	Seismic retrofit of a 670 m multi-span PSC beam bridge using dampers.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Duke Energy IGCC	USA, Edwardsport, IN	Taylor Lock up Devices Total: 14 1000 kN ± 100mm stroke	2010	Seismic	
East Taupo Bridge	NEW ZEALAND, East Taupo	Taylor Lock up Devices Total: 4 1000 kN ± 100mm stroke 750 kN ± 100mm stroke	2010	Seismic	
Galchun 2nd Bridge	Korea, Bonghwa	Taylor Viscous Dampers Total: 4 500 kN ± 100mm stroke	2010	Seismic	Seismic retrofit of a 153 m multi-span PSC beam bridge using dampers.
Gilmerton Lift Bridge	USA, Chesapeake, VA	Taylor Viscous Dampers Total: 4 450 kN + 400mm stroke	2010	Kinetic Energy of Moving Bridge	
Kimpo Airport P3	Korea, Seoul	Taylor Viscous Dampers Total: 20 500 kN ± 100mm stroke 1000 kN ± 100mm stroke	2010	Seismic	Retrofit of existing terminal building. Dampers installed across expansion joints of 3-story concrete frame.
KyungHo River 1st Bridge	Korea, Hamyang	Taylor Viscous Dampers Total: 8 750 kN ± 200mm stroke	2010	Seismic	Seismic retrofit of a 530 m multi-span PSC box girder bridge using dampers.
Parras Middle School	USA, Redondo Beach, CA	Taylor Viscous Dampers Total: 8 160 kN ± 75mm stroke	2010	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Port Mann Bridge	Canada, Coquitlam, BC	Taylor Viscous Dampers Total: 146 2200 kN ± 50mm stroke 2200 kN ± 75mm stroke 2600 kN ± 418mm stroke 2700 kN ± 50mm stroke 3200 kN ± 100mm stroke 3500 kN ± 160mm stroke	2010	Seismic	New cable-stayed bridge uses Fluid Viscous Dampers in approach spans between piers and deck to dissipate seismic energy. This replacement bridge (replaces aging, tied-arch bridge) boast a 470 meter main span, the 2nd longest in the Western Hemisphere, and a 50 meter wide deck - the widest of any cable stayed bridge in the world.
Red Hill Creek Pedestrian Bridge	Canada, Hamilton, ON	Taylor Viscous Dampers Total: 10 1 kN ± 50mm stroke	2010	Seismic	Located near Lake Ontario and over the QEW and an open creek bed, the TMD's were designed to control the effects of wind on the Pedestrian Bridge.
Semi Bridge	Korea, Jinju	Taylor Viscous Dampers Total: 6 750 kN ± 100mm stroke	2010	Seismic	Seismic retrofit of a 180 m multi-span PSC beam bridge using dampers.
Xinjiang Guozili Bridge	China	Taylor Viscous Dampers Total: 8 1061 kN ± 400mm stroke 1191 kN ± 500mm stroke	2010	Seismic	
TSMC Fab #14, P4	Taiwan, Hsin Chu City	Taylor Viscous Dampers Total: 20 2000 kN ± 75mm stroke	2010	Seismic	New semiconductor fabrication plant uses dampers to dissipate seismic energy and reduce vibrations in earthquake.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Linyi Culture Square	China, Linyi	Taylor Viscous Dampers Total : 40 TMD Systems	2010	Wind	New construction 20 Tuned Mass Dampers for the reduction of wind vibrations in large span roof truss section.
Sheng De Fu Construction: Fu-Yu	Taiwan, Taipei	Taylor Viscous Dampers Total: 4 150 kN ± 25mm stroke	2010	Seismic	New RC 15-story residential project uses dampers to dissipate earthquake energy.
Taoto Tapyuna 18th	Taiwan, Taoyuan	Taylor Viscous Dampers Total: 56 500 kN ± 75mm stroke	2010	Seismic	New 19-story RC residential project uses dampers to dissipate energy and reduce earthquake vibrations.
Hong-Chiao Yong-Kang	Taiwan, Taipei	Taylor Viscous Dampers Total: 8 500 kN ± 75mm stroke	2010	Seismic	New RC residential project uses dampers to dissipate energy.
Barwon Heads Bridge	Australia, Victoria	Taylor Fluid Dampers Total: 10 405 kN ± 50mm stroke	2010	Seismic	Lock-up devices used to limit bridge deck displacements for a new highway bridge with timber piers.
Meguro Gajoen Extension Project	Japan, Tokyo	Taylor Fluid Dampers Total: 72 1000 kN ± 50mm stroke 1500 kN ± 50mm stroke 2000 kN ± 50mm stroke	2010	Seismic	New construction, 16-story steel and concrete frame office/hotel/parking structure uses dampers to dissipate earthquake energy.
Kasumigaseki 3 Chome Project	Japan, Tokyo	Taylor Fluid Dampers Total: 12 1000 kN ± 50mm stroke 1500 kN ± 50mm stroke	2010	Seismic	New construction, 17-story steel frame office/parking structure uses dampers to dissipate earthquake energy.
Kindom Jing-Ping Project	Taiwan, Taipei	Taylor Viscous Dampers Total: 22 1000 kN ± 100mm stroke	2009	Seismic	New 25-story SRC residential project, uses a combination of viscous dampers and buckling restrained braces to reduce vibrations caused by earthquake.
250 West 55th Street	USA, New York, NY	Taylor Fluid Dampers Total: 7 1690 kN ± 100mm stroke	2009	Wind	Custom high capacity metal bellows dampers used as part of an outrigger system in a new 39-story all glass exterior office building to reduce wind motion.
WRCT Project	USA, Boone County, KY	Taylor Fluid Dampers Total: 2 750 kN ± 100mm stroke	2009	Seismic	Devices used to provide dynamic force transfer across thermal expansion joint of the supporting structure for this elevated Western Regional Conveyance Tunnel.
U.S. Dept. of Interior Bureau of Reclamation - Utah Projects Office Complex	USA, Provo, UT	Taylor Fluid Dampers Total: 9 445 kN ± 100mm stroke 245 kN ± 75mm stroke	2009	Seismic	Retrofit of an office complex. Dampers and lock-up devices used in diagonal braces to dissipate earthquake energy and reduce displacement.
LAX Theme Building	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 8 555 kN ± 150mm stroke	2009	Seismic	Retrofit of an elevated restaurant supported by four curved legs. Dampers used as part of a mass damper system to control movement of the mass block during an earthquake.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
100 International Drive Steel Warehouse	USA, East Hartford, CT	Taylor Fluid Dampers 2 330 kN ± 100mm stroke	Total: 2009	Seismic	Single-story steel framed warehouse building with plan dimensions of 676' x 450'. Dampers transfer loads across expansion joint at diaphragm chord trusses.
T.F. Green Airport Parking Garage	USA, Providence, RI	Taylor Fluid Dampers 64 135 kN ± 32mm stroke 270 kN ± 75mm stroke	Total: 2009	Seismic	Located in Warwick, near Providence, RI, this airport parking garage uses dampers to transfer loads across expansion joints, thereby reducing the large seismic expansion joint/gap requirements.
Aircraft Hanger	USA, Hawthorne, CA	Taylor Fluid Dampers 160 900 kN ± 100mm stroke	Total: 2009	Seismic	Voluntary seismic upgrade of an aircraft hangar building using dampers in double-diagonal braces to provide seismic energy dissipation.
865 Market Street - San Francisco Centre	USA, San Francisco, CA	Taylor Fluid Dampers Total: 50 2000 kN ± 125mm stroke 2000 kN ± 165mm stroke	2009	Seismic	Voluntary Seismic upgrade of existing multi-story Nordstrom Store in a San Francisco downtown shopping center mall. Dampers in diagonal braces provide seismic energy dissipation.
3300 Hyland Ave. – Abraxis Biosciences	USA, Costa Mesa, CA	Taylor Fluid Dampers 44 1000 kN ± 100mm stroke	Total: 2009	Seismic	Seismic upgrade of 3-story existing structure containing offices on the first and third floors and a state-of-the-art upgraded laboratory on the second floor. Dampers in double-diagonals provide seismic energy dissipation.
IETMC	USA, Fontana, CA	Taylor Fluid Dampers 8 1500 kN ± 610mm stroke	Total: 2009	Seismic	New Caltrans District 8 Inland Empire Transportation Management Center with 24/7 Emergency traffic response and management facilities uses rubber isolators and Taylor dampers to meet immediate occupancy criteria in this 2-story steel structure.
Todai-ji Culture Center	Japan, Nara	Taylor Viscous Dampers Total: 4 250 kN ± 350mm stroke 80kN +/- 350mm stroke	2009	Seismic	New museum in Todai-ji Temple, a World Heritage and National Treasure, uses dampers in special floor isolation system to dissipate seismic energy.
Dubai Racetrack Stadium	United Arab Emirates, Dubai	Taylor Fluid Dampers 108 885 kN ± 50mm stroke 1280 kN ± 50mm stroke 1370 kN ± 50mm stroke	Total: 2009	Wind	New stadium utilizing 36 Tuned Mass Dampers for the reduction of wind vibrations in large cantilevered roof truss sections.
Meixihe Bridge	China, Chongqing	Taylor Fluid Dampers 4 250mm stroke	Total: 1750 kN ± 2009	Seismic	Retrofit of a 1990 vintage suspension bridge with a 222m main span. Dampers used to reduce displacements caused by earthquakes.
Nanping Mingjian Bridge	China, Fujian	Taylor Fluid Dampers 4 1400 kN ± 500mm stroke	Total: 2009	Seismic	Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.
Ningbo Yongjiang Bridge	China, Ningbo	Taylor Fluid Dampers 8 1800 kN ± 550mm stroke	Total: 2009	Seismic	Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Xinjiang Guozili Bridge	China, Xinjiang	Taylor Fluid Dampers Total: 8 400mm stroke 1200 kN ± 500mm stroke	2009	1100 kN ±	Seismic Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.
Nihonbashi Nomura Project	Japan, Tokyo	Taylor Fluid Dampers Total: 52 1100 kN ± 50mm stroke 1500 kN ± 50mm stroke 2000 kN ± 50mm stroke	2009		Seismic New construction, 21-story steel frame office/commerce facility/parking uses dampers to dissipate earthquake energy.
Hydra Waves	Mexico, Mazatlan	Taylor Fluid Dampers Total: 18 50mm stroke	2009	680 kN ±	Seismic New structure use dampers to absorb earthquake energy and reduce deflection and stress.
Tauranga Harbour Link Bridge	New Zealand, Tauranga	Taylor Fluid Dampers Total: 21 980 kN ± 175mm stroke 1470 kN ± 175mm stroke 1750 kN ± 225mm stroke	2009		Seismic New four lane highway bridge use Lock-Up Devices with force limiting devices to control bridge deck movement during seismic events.
ASE I – Mihai Eminescu Project	Romania, Bucharest	Taylor Fluid Dampers Total: 142 100mm stroke 100 kN ± 100mm stroke	2009	1000 kN ±	Seismic Retrofit of a historic building with dampers in diagonal braces to provide seismic energy dissipation.
TSMC Fab #12 P5	Taiwan, Hsin Chu City	Taylor Fluid Dampers Total: 6 2000 kN ± 75mm stroke	2009		Seismic Retrofit of a semiconductor processing plant uses dampers to dissipate seismic energy and micro-vibrations.
Uni-President B8 Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 336 600 kN ± 75mm stroke	2009		Seismic Known as Taipei Hsin-Yi Project, this new 22-story reinforced concrete building uses dampers in chevron braces to dissipate seismic energy.
FDS Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 6 75mm stroke	2009	500 kN ±	Seismic Dampers installed in RC supporting wall in a new reinforced concrete building.
Farglory H61 Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 12 500 kN ± 75mm stroke	2009		Seismic Dampers installed in RC supporting wall in a new reinforced concrete building.
Farglory H63 Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 52 500kN ± 75mm stroke	2009		Seismic Dampers used in chevron bracing elements in a new 15-story reinforced concrete building.
Farglory H65 Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 46 75mm stroke	2009	500kN ±	Seismic Dampers used in chevron bracing elements in a new 14-story reinforced concrete building.
Farglory H69	Taiwan, Taipei	Taylor Fluid Dampers Total: 54 500 kN ± 75mm stroke	2009		Seismic Dampers installed in RC supporting wall in a new 14-story reinforced concrete building.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Farglory H70 Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 20 500 kN ± 75mm stroke	2009	Seismic	New 13-story steel reinforced concrete residential building use dampers in chevron braces to dissipate seismic energy.
Ruentex Wan-Shi Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 8 2000 kN ± 500mm stroke	2009	Seismic	Dampers used as part of a base isolation system for a new building. Dampers provide energy dissipation and reduce displacement required for the isolation system.
Huaku Academia Sinica Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 10 100 kN ± 75mm stroke	2009	Seismic	Dampers used in chevron bracing elements in a new 15-story reinforced concrete building.
Sunrise Golf and Country Club	Taiwan, Taipei	Taylor Fluid Dampers Total: 104 500 kN ± 75mm stroke	2009	Seismic	Dampers used in chevron bracing elements to dissipate earthquake energy in a new 33-story steel frame residential building.
Jee Tai Buildings	Taiwan, Taipei	Taylor Fluid Dampers Total: 20 300 kN ± 59mm stroke 500 kN ± 75mm stroke 750 kN ± 75mm stroke	2009	Seismic	Retrofit of multiple reinforced concrete buildings uses dampers for seismic energy dissipation.
Huaku Ji-Lin Project A	Taiwan, Taipei	Taylor Fluid Dampers Total: 8 1000 kN ± 75mm stroke	2009	Seismic	Dampers used in chevron bracing elements in a new reinforced concrete building.
Jiun-Yi Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 10 500 kN ± 75mm stroke	2009	Seismic	Dampers installed in RC supporting wall in a new 15-story reinforced concrete building to dissipate seismic energy.
KwanFon Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 4 500 kN ± 75mm stroke	2009	Seismic	Dampers installed in RC supporting wall in a new reinforced concrete building.
Aratsu Bridge	Japan, Fukuoka	Taylor Fluid Dampers Total: 4 2900 kN ± 180mm stroke 2300 kN ± 180mm stroke	2009	Seismic	Retrofit of cable-stayed bridge, length is 345m, uses dampers between pier and deck to control seismic movements.
Nagoya-Port Government Office Main Building	Japan, Nagoya	Taylor Fluid Dampers Total: 20 500 kN ± 50mm stroke	2009	Seismic	Retrofit of 15,264 square meter, 9-story reinforced concrete building. Dampers used in diagonal braces to dissipate earthquake energy.
Jusan 1st Bridge	Korea, Hwasun	Taylor Fluid Dampers Total: 8 500 kN ± 200mm stroke	2009	Seismic	Seismic retrofit of a 240 m multi-span PSC beam bridge using dampers.
Jusan 2nd Bridge	Korea, Hwasun	Taylor Fluid Dampers Total: 4 500 kN ± 200mm stroke	2009	Seismic	Seismic retrofit of a 180 m multi-span PSC beam bridge using dampers.
Goko Bridge	Korea, Yeongi	Taylor Fluid Dampers Total: 4 500 kN ± 100mm stroke	2009	Seismic	Seismic retrofit of a 210 m multi-span PSC beam bridge using dampers.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Namhae Grand Bridge	Korea, Namhae	Taylor Fluid Dampers Total: 12 500 kN ± 200mm stroke	2009	Seismic	Seismic retrofit of a 660 m (main span 404m) suspension bridge using dampers.
Eommi 2nd Bridge	Korea, Gwangju	Taylor Fluid Dampers Total: 4 400 kN ± 100mm stroke	2009	Seismic	Seismic retrofit of a 135 m multi-span PSC box girder bridge using dampers.
Kimpo Airport Phase II	Korea, Seoul Korea, Hongsung	Taylor Fluid Dampers Total: 8 500 kN ± 100mm stroke	2009	Seismic	Retrofit of existing terminal building. Dampers installed across expansion joints of 3-story concrete frame building to dissipate seismic energy.
Hongsungwasun Bridge	Korea, Hongsung	Taylor Fluid Dampers Total: 4 850 kN ± 120mm stroke	2008	Seismic	Seismic retrofit of a 300 m multi-span steel box girder and PSC beam bridge using dampers.
Sojung Grand Bridge	Korea, Yoengi	Taylor Fluid Dampers Total: 6 850 kN ± 100mm stroke	2008	Seismic	Seismic retrofit of a 500 m multi-span steel box girder bridge using dampers.
Watan Bridge	Korea, Yeonggwang	Taylor Fluid Dampers Total: 4 850 kN ± 100mm stroke	2008	Seismic	Seismic retrofit of a 380 m multi-span steel box girder bridge using dampers.
Namgang Bridge	Korea, Hamyang	Taylor Fluid Dampers Total: 2 850 kN ± 100mm stroke	2008	Seismic	Seismic retrofit of a 240 m multi-span steel box girder bridge using dampers.
Ansungchun Bridge	Korea, Ansun	Taylor Fluid Dampers Total: 10 1000 kN ± 100mm stroke	2008	Seismic	Seismic retrofit of a 450 m multi-span PSC beam bridge using dampers.
California Dept. of Transportation - District 4 Headquarters	USA, Oakland, CA	Taylor Fluid Dampers Total: 231 1000 kN ± 125mm stroke 2000 kN ± 125mm stroke 3000 kN ± 125mm stroke	2008	Seismic	Retrofit of 15-story steel moment frame structure built in 1991. Dampers used in diagonal braces to dissipate seismic energy.
Atlanta Botanical Garden	USA, Atlanta, GA	Taylor Fluid Dampers Total: 4 11 kN ± 75mm stroke	2008	Pedestrian	Custom pre-tensioned spring loaded dampers used to control pedestrian induced vibrations in an elevated walkway located in the tree canopy.
Citycenter Project Pedestrian Bridge	USA, Las Vegas, NV	Taylor Fluid Dampers Total: 6 TMD Systems	2008	Pedestrian	Group of three new pedestrian bridges utilize Taylor tuned mass dampers to reduce pedestrian-induced vibrations.
Roosevelt Island Lift Bridge	USA, New York, NY	Taylor Fluid Dampers Total: 8 267 kN 560mm stroke	2008	Kinetic Energy of Moving Bridge	Retrofit of a vertical lift bridge for protection from runaway motors and brake failures.
Solomon R. Guggenheim Museum	USA, New York, NY	Taylor Fluid Dampers Total: 54 20 kN ± 30mm stroke	2008	Wind & Traffic Vibration	Retrofit of world-famous Frank Lloyd Wright Building first opened in 1959. First building application of hermetic metal bellows dampers, providing broad-band vibration control of concrete outer walls. Dampers installed in radial braces on top floor.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Pengxihe River Bridge	China, Changqing	Taylor Fluid Dampers Total: 4 1600 kN ± 200mm stroke	2008	Seismic	632m main span cable-stayed bridge uses dampers between the bridge deck and piers to control seismic/wind movement.
Jiangjin Guanyin Bridge	China, Changqing	Taylor Fluid Dampers Total: 4 1200 kN ± 200mm stroke	2008	Seismic	Major cable-stayed bridge uses dampers to reduce displacement caused by earthquakes.
Yuzui Yangtze River Bridge	China, Changqing	Taylor Fluid Dampers Total: 4 1500 kN ± 550mm stroke	2008	Seismic	616m main span cable-stayed bridge uses dampers between tower and deck to allow free thermal movement and control seismic movements.
Hangzhou Jiangdong Bridge I	China, Hangzhou	Taylor Fluid Dampers Total: 4 2000 kN ± 300mm stroke	2008	Seismic	260m main span suspension bridge uses dampers between the bridge deck and piers to control seismic/wind movement.
Hangzhou Jiangdong Bridge II	China, Hangzhou	Taylor Fluid Dampers Total: 4 2000 kN ± 300mm stroke	2008	Seismic	260m main span suspension bridge uses dampers between the bridge deck and piers to control seismic/wind movement.
Jiangyin Bridge	China, Jiangyin	Taylor Fluid Dampers Total: 8 8.9 kN ± 25mm stroke	2008	Bridge Vibration	8 dampers for two bridge inspection vehicles (inspection travelers).
Jingtang Bridge	China, Ningbo, Zhejiang	Taylor Fluid Dampers Total: 4 2750 kN ± 350mm stroke	2008	Seismic & Wind	World's 9th longest cable-stayed bridge uses dampers on the main span to control seismic/wind movements.
Shanghai Hangar	China, Shanghai	Taylor Fluid Dampers Total: 8 1300 kN ± 100mm stroke	2008	Seismic	156.68m Span Hanger, new construction. 8 dampers in chevron braces to dissipate seismic energy.
Shanxi Xianshen Bridge	China, Shangxi, Jinyang	Taylor Fluid Dampers Total: 9 1500 kN ± 300mm stroke	2008	Seismic	150m height single tower cable-stayed bridge uses dampers between the bridge deck and piers to control seismic/wind movement.
Suramadu Bridge	Indonesia, Surabaya Madura	Taylor Fluid Dampers Total: 4 2400 kN ± 450mm stroke	2008	Seismic	445m main span cable-stayed bridge uses dampers with end of travel bumpers between the bridge deck and piers to control seismic/wind movement.
Steel Mill Project	Canada, Tracy, QC	Taylor Lock-Up Devices Total: 8 200 kN ± 75mm stroke	2008	Seismic	Expansion of an existing steel structure. Lock Up Devices used to control seismic movement while allowing free thermal movement.
Mizunami Transformer Station Tower	Japan, Gifu	Taylor Fluid Dampers Total: 4 kN ± 200mm stroke	2008	Seismic	Seismic retrofit of wireless station steel tower. Dampers used in a TMD system to dissipate seismic energy. All stainless steel dampers.
Ooigawa Transformer Station Tower	Japan, Shizuoka	Taylor Fluid Dampers Total: 4 kN ± 200mm stroke	2008	Seismic	Seismic retrofit of wireless station steel tower. Dampers used in a TMD system to dissipate seismic energy. All stainless steel dampers.
Taketoyo Thermal Power Station Tower	Japan, Aichi	Taylor Fluid Dampers Total: 4 16.5 kN ± 200mm stroke	2008	Seismic	Seismic retrofit of wireless station steel tower. Dampers used in a TMD system to dissipate seismic energy. All stainless steel dampers.

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Kimpo Airport Phase I	Korea, Seoul	Taylor Fluid Dampers Total: 4 500 kN ± 100mm stroke	2008	Seismic	Retrofit of an existing building. Dampers installed across expansion joints of 3-story concrete frame building to dissipate seismic energy for Korea Airports Corporation.
Gang Dong Grand Bridge	Korea, Seoul	Taylor Fluid Dampers Total: 12 300mm stroke	2008	Seismic	Seismic retrofit of a 1126 meter multi-span PSC box girder bridge with dampers the Korea Expressway Corporation.
Kyung Ho 2nd Bridge	Korea, Sancheong	Taylor Fluid Dampers Total: 4 750 kN ± 250mm stroke	2008	Seismic	Seismic retrofit of a 340 meter multi-span PSC Box bridge with dampers for the Korea Expressway Corporation.
Kyung Ho 6th Bridge	Korea, Sancheong	Taylor Fluid Dampers Total: 8 1500 kN ± 200mm stroke	2008	Seismic	Seismic retrofit of a 630 meter multi-span PSC Box bridge with dampers for the Korea Expressway Corporation.
Hang Jyung Bridge	Korea, Sancheong	Taylor Fluid Dampers Total: 10 1500 kN ± 250mm stroke	2008	Seismic	Seismic retrofit of a 630 meter multi-span PSC Box bridge with dampers for the Korea Expressway Corporation.
Marena Project	Mexico, Acapulco	Taylor Fluid Dampers Total: 52 600 kN ± 50mm stroke 570 kN ± 50mm stroke	2008	Seismic	New resort/hotel/condominium complex uses dampers to dissipate seismic energy.
Academy for Economical Studies II Project	Romania, Bucharest	Taylor Fluid Dampers Total: 18 500mm stroke	2008	Seismic	Retrofit of a building with 80 isolation bearings and 18 dampers.
Academy for Economical Studies - Sports Complex	Romania, Bucharest	Taylor Fluid Dampers Total: 6 300 kN ± 75mm stroke	2008	Seismic	Retrofit of a building with dampers located at the roof to dissipate earthquake energy.
TSMC Fab #12 P4	Taiwan, Hsin Chu City	Taylor Fluid Dampers Total: 18 2000 kN ± 75mm stroke	2008	Seismic	Retrofit of a semiconductor processing plant uses dampers to dissipate seismic energy and micro-vibrations.
Criminal Investigation Bureau Taichung	Taiwan, Taichung	Taylor Fluid Dampers Total: 4 392 kN ± 50mm stroke 784 kN ± 75mm stroke	2008	Seismic	15-story steel braced frame building uses a combination of BRBs and dampers in diagonal braces for seismic energy dissipation.
Hung-Feng Nei-Hu Residence	Taiwan, Taipei	Taylor Fluid Dampers Total: 12 500 kN ± 75mm stroke	2008	Seismic	New 5-story residential building uses dampers in reinforced concrete supporting walls to dissipate seismic energy
Fu-Shi Tu-Cheng Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 24 500 kN ± 75mm stroke	2008	Seismic	New 12-story residential building uses dampers in reinforced concrete supporting walls to dissipate seismic energy.
Ya-Ting Chung-Ho Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 16 500 kN ± 75mm stroke	2008	Seismic	New 14-story residential building uses dampers in reinforced concrete supporting walls to dissipate seismic energy.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Mei-Feng Residential Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 1000 kN ± 60mm stroke	2008	Seismic	New 16- story steel residential building uses dampers in double A-shape frames to dissipate seismic energy.
Farglory Fortuna H62	Taiwan, Taipei	Taylor Fluid Dampers Total: 80 500 kN ± 75mm stroke	2008	Seismic	Two new 16-story steel reinforced concrete residential building use dampers in double A-shape frames to dissipate seismic energy.
Farglory Twin-Towers H40	Taiwan, Taipei	Taylor Fluid Dampers Total: 162 500 kN ± 60mm stroke 800 kN ± 75mm stroke	2008	Seismic	Two new 25-story steel reinforced concrete residential building use dampers in double A-shape frames to dissipate seismic energy.
Hung Poo Construction/ KIMZO New Trump	Taiwan, Taipei	Taylor Fluid Dampers Total: 24 1000 kN ± 100mm stroke	2008	Seismic	New 19-story residential building uses dampers in reinforced concrete supporting walls to dissipate seismic energy.
Kindom Kui-Lin Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 24 1000 kN ± 100mm stroke	2008	Seismic	New 19-story steel reinforced concrete residential building with dampers to dissipation seismic energy.
Uni-President Taipei Transfer Post (A3)	Taiwan, Taipei	Taylor Fluid Dampers Total: 124 600 kN ± 75mm stroke 600 kN ± 100mm stroke	2008	Seismic	New 31-story steel structure with dampers to improve structural performances. Dampers are installed in diagonal braces and A-shape supporting frames.
Kelti Hsin-Yi Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 80 1400 kN ± 100mm stroke 1500 kN ± 100mm stroke	2008	Seismic	New 14-story steel office building in Taipei Project. Viscous dampers are used for energy dissipation. Dampers are installed in diagonal braces.
Chiyoda Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 16 980 kN ± 60mm stroke	2008	Seismic	16-story reinforced concrete moment frame building uses dampers in double A-shape frames to dissipate seismic energy.
Twin Oak Garden Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 980 kN ± 60mm stroke	2008	Seismic	16-story reinforced concrete moment frame building uses dampers in double A-shape frames to dissipate seismic energy.
Far Glory Twin Towers	Taiwan, Taipei	Taylor Fluid Dampers Total: 162 490 kN ± 60mm stroke 785 kN ± 75mm stroke	2008	Seismic	Two 24-story residential buildings use dampers in double A-shape frames to dissipate seismic energy.
Mei-Feng Residential Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 980 kN ± 60mm stroke	2008	Seismic	19-story residential building uses dampers in A-shape frames to dissipate seismic energy.
Mills Peninsula Hospital	USA, Burlingame, CA	Taylor Fluid Dampers Total: 32 1225 kN ± 762mm stroke	2007-2008	Seismic	450,000 square foot replacement hospital for Peninsula Medical Center with 243 beds. Dampers used with base isolation system.
Cumberland River Pedestrian Bridge	USA, Nashville, TN	Taylor Fluid Dampers Total: 5 TMD Systems	2007	Pedestrian	Five TMD Systems used to control lateral and vertical vibrations caused by pedestrian traffic.

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KDDI Tama Fourth Network Center 1st Station	Japan, Tokyo	Taylor Fluid Dampers Total: 28 1450 kN ± 610mm stroke	2007	Seismic	6-story, 24,000 square meter telephone network center is base isolated with dampers to reduce seismic movement and provide energy dissipation.
Tres Mares Residences	Mexico, Puerto Vallarta	Taylor Fluid Dampers Total: 30 900 kN ± 100mm stroke 1450 kN ± 100mm stroke	2007	Seismic	27-story, 40,200 square meter condominium building with concrete columns and steel beams. Dampers used in diagonal braces for seismic energy dissipation.
TSMC Fab #14	Taiwan, Taipei	Taylor Fluid Dampers Total: 20 2000 kN ± 75mm stroke	2007	Seismic	Retrofit of a semiconductor processing plant uses damper to dissipate seismic energy and micro-vibrations.
Dong-Teng Project	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 490 kN ± 75mm stroke	2007	Seismic	15-story steel braced frame residential building uses dampers in A-frames to dissipate seismic energy.
Jin Nam 3rd Bridge	Korea, Mungyeong	Taylor Fluid Dampers Total: 10 850 kN ± 100mm stroke	2007	Seismic	Seismic retrofit of a 680 meter multi-span steel box girder and PSC Beam bridge with dampers for the Ministry of Land Transport and Maritime Affairs.
New Yang Soo Bridge	Korea, Yangpyeong	Taylor Fluid Dampers Total: 34 2000 kN ± 100mm stroke 850 kN ± 100mm stroke	2007	Seismic	Seismic retrofit of a 2180 meter multi-span steel box girder and PSC Beam bridge with dampers for the Ministry of Land Transport and Maritime Affairs.
Gang Hwa Grand Bridge	Korea, Ganghwa	Taylor Fluid Dampers Total: 8 2000 kN ± 120mm stroke	2007	Seismic	Seismic retrofit of a 780 meter multi-span steel box girder bridge with dampers for the Ministry of Land Transport and Maritime Affairs.
Clerkenwell Road Bridge	UK, London	Taylor Fluid Dampers Total: 2 582 kN ± 100mm stroke	2007	Seismic	Strengthening Project – Lock-up devices used to control seismic movement while allowing free thermal movement.
Coker Structure	Venezuela, Barcelona	Taylor Fluid Dampers Total: 26 50 kN ± 150mm stroke	2007	Seismic	Dampers used to reduce vibrations caused by a chemical reaction in a large vessel.
131 South Rodeo Drive	USA, Beverly Hills, CA	Taylor Fluid Dampers Total: 18 2000 kN ± 75mm stroke	2007	Seismic	Voluntary seismic retrofit uses dampers in diagonal bracing elements for seismic energy dissipation.
Don Pedro High School	USA, Groveland, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2007	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Tioga High School	USA, Groveland, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2007	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Sutter Gould Medical Office Building	USA, Modesto, CA	Taylor Fluid Dampers Total: 40 712 kN ± 75mm stroke	2007	Seismic	4-story, 13,400 square meter medical office building. Steel construction with dampers in diagonal bracing elements for seismic energy dissipation.

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Beijing 7 Star Morgan Plaza Hotel	China, Beijing	Taylor Fluid Dampers Total: 108 1000 kN ± 40mm stroke 1000 kN ± 100mm stroke 1500 kN ± 150mm stroke	2007	Seismic & Wind	New 40-story building uses a combination of fluid dampers and fluid visco-elastic dampers to reduce seismic and wind vibrations.
Stamford Building	New Zealand, Auckland	Taylor Fluid Dampers Total: 12 25 kN ± 150mm stroke	2007	Wind	Residential tower uses dampers in a three-mass TMD system to reduce motion caused by wind for comfort level improvements.
Loma Linda University Medical Center	USA, Loma Linda, CA	Taylor Fluid Dampers Total: 10 890 kN ± 100mm stroke	2007	Seismic	Seismic upgrade of hospital structure uses long fluid viscous dampers in diagonal braces of Buildings A&C.
Whalley Reservoir	Canada, Surrey, BC	Taylor Fluid Dampers Total: 17 1000 kN ± 125mm stroke	2007	Seismic	Dampers surround this in-ground reservoir to control seismic drift of concrete lid.
Jiangyin Bridge	China, Jiangsu Province	Taylor Fluid Dampers Total: 4 1000 kN ± 1000mm stroke	2007	Seismic	World's 5th longest suspension bridge uses dampers mounted vertically at expansion joints to control traffic vibrations.
Xihoumen Bridge	China, Zhejiang Province	Taylor Fluid Dampers Total: 4 1000 kN ± 1100mm stroke	2007	Seismic	World's 2nd longest suspension bridge located at Zhoushan Island uses dampers in the longitudinal direction to dissipate seismic energy.
Cal Poly Pomona Library	USA, Pomona, CA	Taylor Fluid Dampers Total: 12 1335 kN ± 178mm stroke	2007	Seismic	Seismic retrofit of college library building uses long fluid viscous dampers in diagonal braces.
Doutor Coffee Nagoya Project	Japan, Nagoya City	Taylor Fluid Dampers Total: 2 3000 kN ± 50mm stroke	2007	Seismic	New 9-story office building (2, 096 square meters) uses dampers for seismic energy dissipation.
Saitama Citizen Medical Center	Japan, Saitama City	Taylor Fluid Dampers Total: 12 1450 kN ± 610mm stroke	2007	Seismic	New 6-story hospital (29, 320 square meters) uses dampers with base isolation system for seismic energy dissipation.
Minatoku Office Building (Mita 3 Chome project)	Japan, Tokyo-Minato-ku	Taylor Fluid Dampers Total: 32 785 kN ± 100mm stroke	2007		New 13-story office building (17, 200 square meters) uses dampers in diagonal braces for seismic energy dissipation.
Starwood Hotel - Sage Hospitality	USA, Portland, OR	Taylor Fluid Dampers Total: 212 445 kN ± 100mm stroke 670 kN ± 100mm stroke 890 kN ± 100mm stroke	2007	Seismic	Remodel and seismic retrofit/upgrade of Meir and Frank Building, floors 6-14. Project uses dampers in chevron braces.
Leona Drive Residence	USA, Beverly Hills, CA	Taylor Fluid Dampers Total: 3 22 kN ± 25mm stroke	2007	Floor Vibrations	New residence with cantilevers that requires damping for comfort level improvements from floor vibrations.
Shen-Mao Garter Castle Residential Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 1000 kN ± 50mm stroke	2007	Seismic	New 14-story R/C residential building uses 32 dampers in R/C supporting walls and bracing for energy dissipation.

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Nordstrom – Santa Barbara Paseo Nuevo Store # 344	USA, Santa Barbara, CA	Taylor Fluid Dampers Total: 38 890 kN ± 100mm stroke 670 kN ± 100mm stroke	2007	Seismic	Store remodel includes structural seismic upgrade with dampers used in chevron braces for seismic energy dissipation.
Abe Transformer Station Tower	Japan, Shizuoka Prefecture	Taylor Fluid Dampers Total: 4 16 kN + 200mm stroke	2007	Seismic	Seismic retrofit of wireless station steel tower. Dampers used in TMD system to dissipate seismic energy.
Seattle Central Link Light Rail	USA, Seattle, WA	Taylor Fluid Dampers Total: 6 2000 kN ± 76mm stroke 2558 kN ± 76mm stroke	2007	Seismic	1.7 mile Extension of light rail line to SEA-TAC Int'l airport, uses shock transmission units to control seismic movement/allow free thermal movement.
Port of Seattle South 160th St. Loop Ramp Light Rail	USA, Seattle, WA	Taylor Fluid Dampers Total: 24 1000 kN ± 100mm stroke 2000 kN ± 76mm stroke 2558 kN ± 76mm stroke	2007	Seismic	New light rail line at SEA-TAC Int'l airport utilizes shock transmission units to control seismic movement while allowing free thermal movement.
Lian-Yun Tai-An Residence	Taiwan, Taipei	Taylor Fluid Dampers Total: 6 1000 kN ± 100mm stroke	2007	Seismic	New 12-story R/C residential building uses 6 dampers in first floor to dissipate seismic energy.
Huaku Wen-De Residence	Taiwan, Taipei	Taylor Fluid Dampers Total: 24 500 kN ± 60mm stroke	2007	Seismic	New 14-story R/C residential building uses 24 dampers for seismic energy dissipation.
Huaku Ming-Chiuan Residence	Taiwan, Taipei	Taylor Fluid Dampers Total: 48 1000 kN ± 60mm stroke	2007	Seismic	New 15 story R/C residential building uses 48 dampers for seismic energy dissipation.
Kindom Millennium Celebrity	Taiwan, Taipei	Taylor Fluid Dampers Total: 12 500 kN ± 50mm stroke	2007	Seismic	New 27-story steel/concrete residential building located on soft soil of old volcano valley uses dampers for earthquake energy dissipation.
SR 62 Bridge over Wabash River	USA, Posey County, IN	Taylor Fluid Dampers Total: 80 290 kN ± 100mm stroke 470 kN ± 100mm stroke	2007	Seismic	Indiana DOT Bridge over Wabash River to White County, Illinois uses Lock-up Devices to control seismic movement while allowing free thermal movement.
Pomeroy-Mason Bridge	USA, Grove City, OH	Taylor Fluid Dampers Total: 96 23 kN ± 75mm stroke	2007	Wind/Rain	New cable-stayed bridge. Dampers attached to cable stays to reduce motion induced by a combination of wind and rain.
Sutong Changjiang River Bridge	China, Shanghai	Taylor Fluid Dampers Total: 8 6580 kN ± 850mm stroke	2007	Seismic & Wind	World's longest cable-stayed bridge uses special spring dampers on the main span to control seismic/wind movements.
Longhua Songhua Bridge	China, Songyuan, Jilin Province	Taylor Fluid Dampers Total: 16 1800 kN ± 140mm stroke	2007	Seismic	New 7-span reinforced concrete continuous beam bridge uses Lock-Up Devices to control seismic movement while allowing free thermal movement.
Rainbow Bridge (Nei-Hu Suspension Bridge)	Taiwan, Taipei	Taylor Fluid Dampers Total: 4 500 kN ± 100mm stroke	2007	Seismic	New steel arch-suspension bridge uses dampers for earthquake energy dissipation.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Nueva Palmira Wharf	Uruguay, Montevideo	Taylor Fluid Dampers Total: 6 900 kN ± 100mm stroke	2007	Wind & Berthing Loads	New multi-modal harbor port terminal. Dampers used for wind/impact load protection of wharf structure with pile foundations.
Tan Zu/Tzu Chi Hospital	Taiwan, Taichung City	Taylor Fluid Dampers Total: 88 1716 kN ± 750mm stroke	2007	Seismic	New construction of a 14-story, 145k m2 hospital. Dampers used to add energy dissipation to the base isolation system.
Roslyn Viaduct Bridge Replacement for Route 25A over Hempstead Harbor	USA, Roslyn, NY	Taylor Fluid Dampers Total: 8 2000 kN ± 280mm stroke	2007	Seismic	Replacement segmental concrete overpass structure uses fluid viscous dampers for earthquake energy dissipation.
Seattle Central Link Light Rail Section C755	USA, Seattle, WA	Taylor Fluid Dampers Total: 34 1000 kN ± 100mm stroke 2000 kN ± 76mm stroke 2558 kN ± 76mm stroke	2007	Seismic	New light rail line utilizes shock transmission units to control seismic movement while allowing free thermal movement.
Macy's Store - Meier & Frank Building Remodel	USA, Portland, OR	Taylor Fluid Dampers Total: 160 890 kN ± 100mm stroke 1112 kN ± 100mm stroke 1335 kN ± 100mm stroke 1780 kN ± 100mm stroke	2006-2007	Seismic	Remodel and seismic retrofit/upgrade of Meier and Frank Building floors 1-5. Project uses dampers in chevron braces.
Naval Hospital Bremerton	USA, Bremerton, WA	Taylor Fluid Dampers Total: 88 890 kN ± 100mm stroke	2006-2007	Seismic	Seismic upgrade of 1960's era, 9-story, 2,500 square meter hospital utilizes dampers in diagonal braces to reduce drift and dissipate seismic energy.
JR Tokai Shin Yokohama Station	Japan, Tokyo	Taylor Fluid Dampers Total: 377 500 kN ± 50mm stroke 1000 kN ± 50mm stroke 1500 kN ± 50mm stroke	2006-2007	Seismic	New 19-story 100,000 square meter steel train station/office/hotel building uses dampers in diagonal braces to dissipate seismic energy.
Rock Church (Nehemiah Project)	USA, San Diego, CA	Taylor Fluid Dampers Total: 2 TMD Systems	2006	Pedestrian Dancing Vibration	Two 10,000 Lbs TMD systems used to dampen vibrations on the main cantilevered balcony in the sanctuary.
Guangzhou Stadium	China, Yixing	Taylor Fluid Dampers Total: 12 1500 kN ± 100mm stroke	2006	Seismic	New Stadium uses dampers in stadium substructure framing to provide seismic energy dissipation.
Nordstrom – Tyler Mall Store #35	USA, Riverside, CA	Taylor Fluid Dampers Total: 32 980 kN ± 100mm stroke	2006	Seismic	Store remodel includes structural seismic upgrade with dampers used in chevron braces for seismic energy dissipation.
Nordstrom – South Bay Galleria	USA, Redondo Beach, CA	Taylor Fluid Dampers Total: 16 890 kN ± 15mm stroke	2006	Seismic	Store remodel includes structural seismic upgrade with dampers used in chevron braces for seismic energy dissipation.
Los Angeles California Temple	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 9 360 kN +175/-25mm stroke	2006	Seismic	Voluntary Seismic upgrade of church steeple (spire) with dampers used in special apparatus for seismic energy dissipation.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Jorge Chavez International Airport Central Tower	Peru, Lima	Taylor Fluid Dampers Total: 42 490 kN ± 100mm stroke 712 kN ± 100mm stroke	2006	Seismic	Retrofit of a 10-story R/C central tower structure. Dampers are used in chevron braces to provide seismic energy dissipation.
Deung Sun Bridge	Korea, Chuncheon	Taylor Fluid Dampers Total: 8 1000 kN ± 100mm stroke	2006	Seismic	Seismic retrofit of a 2000 meter multi-span steel girder bridge with dampers for the Ministry of Construction & Transportation.
ShinSang # 1 Bridge	Korea, Daejeon	Taylor Fluid Dampers Total: 8 1000 kN ± 250mm stroke	2006	Seismic	Seismic retrofit of a 525 meter multi-span steel girder bridge with dampers for the Korea Highway Corporation.
Lee Ho Grand Bridge	Korea, Yeosu	Taylor Fluid Dampers Total: 4 1000 kN ± 310mm stroke	2006	Seismic	Seismic retrofit of a 910 meter multi-span steel girder bridge with dampers for the Ministry of Construction & Transportation.
TSMC FAB #7	Taiwan, Hsin Chu City	Taylor Fluid Dampers Total: 16 1000 kN ± 100mm stroke	2006	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and micro-vibrations.
Pamunkey River Bascule Bridge	USA, West Point, VA	Taylor Fluid Dampers Total: 4 890 kN + 400mm stroke	2006	Kinetic Energy of Moving Bridge	New bascule bridge replaces an aging bridge. Dampers are used to protect the bascule leaves and ensure soft settling.
ITS Kenpo Okubo Union Hall	Japan, Tokyo-Okubo	Taylor Fluid Dampers Total: 18 1425 kN + 50mm stroke 1960 kN + 50mm stroke 2330 kN + 50mm stroke	2006	Seismic	New 7-story office building for Kanto IT software health insurance association. Dampers are used in diagonal braces to dissipate seismic energy.
D - Asset VIII Nishi - Shinjyuku Building	Japan, Tokyo-Shinjyuku	Taylor Fluid Dampers Total: 25 500 kN + 100mm stroke	2006	Seismic	New 13-story office building known as D-ASSETVIII. Dampers used in diagonal braces to dissipate seismic energy.
Waldo – Penobscot River Bridge	USA, Verona, ME	Taylor Fluid Dampers Total: 160 9 kN ± 63mm stroke	2006	Wind/Rain	New cable-stayed bridge and observation tower uses dampers attached to cable stays to reduce vibration from wind and rain.
Marvell Building # 100, 200 and Connector Building	USA, Santa Clara, CA	Taylor Fluid Dampers Total: 104 890 kN + 76mm stroke	2006	Seismic	Seismic upgrade of existing structures and seismic protection of new connecting structure. Dampers used in diagonal braces to dissipate seismic energy.
Marvell Building # 400	USA, Santa Clara, CA	Taylor Fluid Dampers Total: 26 890 kN ± 76mm stroke 2935 kN ± 76mm stroke 4380 kN ± 76mm stroke	2006	Seismic	Seismic upgrade of existing structure. Dampers used in diagonal braces to dissipate seismic energy.
Berryhill Elementary School	USA, Ceres, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2006	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Four Elementary Schools for the Ceres Unified School District	USA, Ceres, CA	Taylor Fluid Dampers Total: 32 107 kN ± 75mm stroke	2006	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Adkison Elementary School	USA, Ceres, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2006	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Hidahl Elementary School	USA, Ceres, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2006	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
LaRosa Elementary School	USA, Ceres, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2006	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
926 J Street	926 J Street	Taylor Fluid Dampers Total: 16 1557 kN ± 75mm stroke	2006	Seismic	Retrofit of a 1920's vintage, 10,000 square meter concrete office building. Dampers used in diagonal bracing elements to dissipate seismic energy.
Kent Parking Garage	USA, Kent, WA	Taylor Fluid Dampers Total: 16 445 kN ± 100mm stroke	2006	Seismic	Seismic upgrade of a 3-story concrete parking garage. Dampers used in diagonal braces to dissipate seismic energy.
Bercy Tolbiac Bridge	France, Paris	Taylor Fluid Dampers Total: 4 34 kN ± 65mm stroke 53 kN ± 65mm stroke 82 kN ± 25mm stroke	2006	Pedestrian Traffic	New footbridge uses special metal bellows dampers to reduce vibrations caused by pedestrian traffic.
Chiba Chuo Project (6th area urban redevelopment project)	Japan, Chiba City	Taylor Fluid Dampers Total: 42 980 kN ± 100mm stroke 1960 kN ± 100mm stroke	2006	Seismic	New 15-story steel mixed-use office/retail/ science museum building uses a combination of unbonded braces and dampers to dissipate seismic energy.
Shibuya Park Road Building	Japan, Tokyo	Taylor Fluid Dampers Total: 10 2452 kN ± 125mm stroke 3149 kN ± 100mm stroke 5885 kN ± 100mm stroke	2006	Seismic	New 7-story, 2,200 square meter reinforced concrete office building uses dampers to dissipate seismic energy.
Tainan Science Park Junction Bridge	Taiwan, Tainan	Taylor Fluid Dampers Total: 48 785 kN ± 100mm stroke	2006	Seismic	Dampers installed on top of the bridge piers, connecting the bottom of the post-stressing reinforced concrete I-beam for earthquake energy dissipation.
Jan-Ron Ritz Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 64 980 kN ± 100mm stroke	2006	Seismic	New 24-story reinforced concrete residential building uses dampers in A-shape supporting frame for earthquake energy dissipation.
Ruentex Tun-Jen Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 88 858 kN ± 100mm stroke 1147 kN ± 100mm stroke	2006	Seismic	New 21-story steel-framed residential building uses dampers in A-shape supporting frame for earthquake energy dissipation.
Beijing Silvertie Center	China, Beijing	Taylor Fluid Dampers Total: 73 1200 kN ± 100mm stroke	2006	Seismic	New 63-story building uses dampers in diagonal braces to reduce seismic and wind motion.

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Bayer CMF Building #66	USA, Berkeley, CA	Taylor Fluid Dampers Total: 88 858 kN ± 100mm stroke 1147 kN ± 100mm stroke 1325 kN ± 100mm stroke	2005	Seismic	New 2-story, 3,500 square meter clinical manufacturing facility utilizes dampers to reduce drift and dissipate seismic energy.
Sinclear Elementary School	USA, Ceres, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2005	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Semiconductor Building	USA, Silicon Valley, CA	Taylor Fluid Dampers Total: 26 890 kN ± 76mm stroke 2935 kN ± 76mm stroke 4380 kN ± 76mm stroke	2005	Seismic	Seismic upgrade of a 2-story steel frame semiconductor manufacturing building uses dampers in diagonal braces.
Logan Airport Central Parking Garage	USA, Boston, MA	Taylor Fluid Dampers Total: 96 133 kN ± 25mm stroke	2005	Seismic	Lock-up devices used as part of a seismic upgrade and expansion. Devices used between existing structure and new parking structure around original structure at the first and second floors.
Mississippi River Bridge	USA, Greenville, MS	Taylor Fluid Dampers Total: 8 4600 kN ± 152mm stroke	2005	Seismic	New cable-stayed bridge carries U.S. Hwy 82 over Mississippi River. 420 m main span is longest in the continental U.S. Dampers control seismic movement while allowing for thermal movement.
Spring Mountain Road Pedestrian Bridges	USA, Las Vegas, NV	Taylor Fluid Dampers Total: 18 TMD Systems	2005	Pedestrian Traffic	Group of three new pedestrian bridges utilize Taylor tuned mass dampers to reduce pedestrian-induced vibrations.
Hammersly Wharf	Australia	Taylor Fluid Dampers Total: 1 1890 kN ± 75mm stroke	2005	Seismic	East Intercourse Island Wharf Strengthening Project-Damper used to control seismic movement while allowing free thermal movement.
Jackson Street Bridge	Australia, Fyshwick	Taylor Fluid Dampers Total: 2 400 kN ± 100mm stroke	2005	Seismic	Shock Transmission Units used to control seismic movement while allowing free thermal movement.
GerFu Business Center	Taiwan, Taipei	Taylor Fluid Dampers Total: 25 490 kN ± 100mm stroke 980 kN ± 100mm stroke	2005	Seismic	Structural retrofit of an office building. Dampers used in chevron braces to dissipate seismic energy.
Nanjing 3rd Crossing Bridge	China, Nanjing	Taylor Fluid Dampers Total: 54 1471 kN ± 120mm stroke	2005	Seismic	Dampers installed on the approaches of a new cable stayed bridge to control longitudinal earthquake movement while allowing free thermal movement.
Huabei Power Plant	China, Shandong	Taylor Fluid Dampers Total: 96 8.9 kN ± 25.4mm stroke	2005	Equipment Vibration	Dampers used to reduce equipment vibration.
Zhengzhou Convention Center	China, Zhengzhou	Taylor Fluid Dampers Total: 144 2 kN ± 25mm stroke	2005	Pedestrian Traffic & Dancing	New convention center floor utilizes tuned mass dampers to reduce perceptible vibrations caused by walking and dancing inputs.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Cyprus Olympic Building	Cyprus, Nicosia	Taylor Fluid Dampers Total: 52 150 kN ± 50mm stroke	2005	Seismic	New 3-story reinforced concrete building uses dampers in scissor-type toggle braces to dissipate seismic energy.
Pont de Vatine Bridge	France, Le Havre	Taylor Fluid Dampers Total: 6 67 kN ± 102mm stroke 67 kN ± 152mm stroke 50 kN ± 152mm stroke	2005	Kinetic Energy	New movable pedestrian bridge uses a combination of lift, oscillation and rotational energy absorbers.
Shinjuku 3-Chome East Building	Japan, Tokyo-Shinjyuku	Taylor Fluid Dampers Total: 2 2452 kN ± 150mm stroke	2005	Seismic	New 14-story 26,400 square meter entertainment complex uses dampers to dissipate seismic energy.
Daebuk Gyo Bridge	Korea, Wulsan City	Taylor Fluid Dampers Total: 4 868 kN ± 100mm stroke	2005	Seismic	Seismic retrofit of a three span steel girder highway bridge.
Alameda	Mexico, Mexico City	Taylor Fluid Dampers Total: 34 645 kN ± 75mm stroke	2005	Seismic	Conversion of a 1950's vintage parking garage to small apartments. Dampers used in diagonal bracing elements to dissipate seismic energy.
Fubon/China Insurance Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 124 490 kN ± 75mm stroke 785 kN ± 75mm stroke 1079 kN ± 75mm stroke 1275 kN ± 75mm stroke 1471 kN ± 75mm stroke	2005	Seismic	New 16-story residential building uses dampers in diagonal braces to dissipate seismic energy.
Kindom 101 Leadership	Taiwan, Taipei	Taylor Fluid Dampers Total: 23 980 kN ± 50mm stroke	2005	Seismic	New 18-story 13,000 square meter residential building uses dampers in diagonal bracing elements.
National Palace Museum	Taiwan, Taipei	Taylor Fluid Dampers Total: 172 500 kN ± 75mm stroke 1000 kN ± 75mm stroke	2005	Seismic	Retrofit of a well-known museum. Dampers used to dissipate seismic energy in this seven building complex.
Shin Keio Plaza	Taiwan, Taipei	Taylor Fluid Dampers Total: 24 980 kN ± 152mm stroke	2005	Seismic	New 22-story SRC residential building uses dampers in A-shape supporting frame for earthquake energy dissipation.
Touch the Heart of Hawaii	Taiwan, Taipei	Taylor Fluid Dampers Total: 30 980 kN ± 50mm stroke 1225 kN ± 75mm stroke	2005	Seismic	New 35,000 square meter 14-story reinforced concrete residential building uses a combination of dampers in diagonal and chevron braces.
Nordstrom South Coast Plaza	USA, Costa Mesa, CA	Taylor Fluid Dampers Total: 40 667 kN ± 100mm stroke 890 kN ± 100mm stroke	2004	Seismic	Retrofit of 23,000 square meter, 4-story steel moment frame retail building. Dampers used in chevron braces to dissipate seismic energy.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Monroe Middle School	USA, Campbell, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2004	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Rolling Hills Middle School	USA, Los Gatos, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2004	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
East Bay Municipal Utility District-Administration Building	USA, Oakland, CA	Taylor Fluid Dampers Total: 50 1112 kN ± 127mm stroke 1446 kN ± 190mm stroke 2669 kN ± 165mm stroke	2004	Seismic	Retrofit of 10-story steel structure. Dampers used in diagonal and chevron braces to dissipate seismic energy.
CSUS-Academic Information Resources Center	USA, Sacramento, CA	Taylor Fluid Dampers Total: 24 230 kN ± 50mm stroke 260 kN ± 50mm stroke	2004	Seismic	New 10,000 square meter, 4-story steel frame building uses dampers in diagonal bracing elements to dissipate seismic energy.
Vacaville Police Station	USA, Vacaville, CA	Taylor Fluid Dampers Total: 20 489 kN ± 50mm stroke 890 kN ± 50mm stroke	2004	Seismic	New 2-story, 4,000 square meter police headquarters uses dampers in diagonal braces to provide a cost-effective building that will provide immediate occupancy performance for a 475 year return seismic event.
Los Angeles Regional Transportation Management Center	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 25 1450 kN ± 660mm stroke	2004	Seismic	New construction with base isolation. These special dampers are equipped with an automatic wind-lock mechanism, while also functioning as seismic energy absorbers.
Richmond-San Rafael Bridge	USA, Richmond, CA	Taylor Fluid Dampers Total: 28 1000 kN ± 965mm stroke 2225 kN ± 508mm stroke	2004	Seismic	Retrofit of a 4.5 mile steel truss bridge designed in the 1950's. Dampers used to dissipate seismic energy and allow the bridge to withstand a maximum credible earthquake.
George Washington Bridge	USA, Seattle, WA	Taylor Fluid Dampers Total: 4 4900 kN ± 75mm stroke	2004	Seismic	Retrofit of a large steel truss bridge. Devices used to control seismic movement while allowing free thermal movement.
Weirton-Steubenville, Veterans Memorial Bridge	Weirton, WV	Taylor Fluid Dampers Total: 88 9 kN ± 25mm stroke 2.5 kN ± 25mm stroke	2004	Wind & Rain	Retrofit of a cable-stayed bridge. Dampers attached to cable stays to reduce cable vibration induced by a combination of wind and rain.
Veterans Memorial Bridge - Texas	USA, Groves, TX	Taylor Fluid Dampers Total: 80 25 kN ± 150mm stroke	2004	Wind	Retrofit of a cable-stayed bridge. Dampers attached to cable stays to reduce motion induced by a combination of wind and rain.
TSMC FAB #5	Taiwan, Hsin Chu City	Taylor Fluid Dampers Total: 44 981 ± 75mm stroke 1471 ± 75mm stroke	2004	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and micro-vibrations.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
TSMC FAB #8	Taiwan, Hsin Chu City	Taylor Fluid Dampers Total: 58 785 ± 38mm stroke 1422 ± 220mm stroke 1452 ± 50mm stroke	2004	Seismic	Retrofit of a semiconductor fabrication plant uses dampers to dissipate seismic energy and micro-vibrations.
Uni-President Headquarters	Taiwan, Taipei	Taylor Fluid Dampers Total: 52 980 kN ± 75mm stroke 980 kN ± 100mm stroke 1960 kN ± 75mm stroke	2004	Seismic	Retrofit of residential building to reduce seismic drift and forces after adding 2 additional floors on top of the structure. Dampers used in chevron and diagonal braces to dissipate seismic energy.
Grand Master Construction Residential Building (KCEC)	Taiwan, Taipei	Taylor Fluid Dampers Total: 32 980 kN ± 50mm stroke 735 kN ± 50mm stroke	2004	Seismic	New 14-story steel reinforced concrete residential building uses dampers in chevron braces for earthquake energy dissipation.
Temple Lofts	USA, Long Beach, CA	Taylor Fluid Dampers Total: 64 667 kN ± 75 mm stroke 890 kN ± 75 mm stroke	2004	Seismic	Conversion of a Masonic Temple to condominiums. Dampers used in chevron braces to dissipate seismic energy.
Coldhams Lane Bridge	UK, Cambridge	Taylor Fluid Dampers Total: 2 100 kN ± 75mm stroke	2004	Vehicle Collision	Lock-up devices installed on a small footbridge to prevent the bridge from falling off its piers if a vehicle collides with the bridge.
Kuo Mei Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 4 981 kN ± 75mm stroke	2004	Seismic	New 14-story residential building uses dampers in chevron braces to dissipate seismic energy.
Hotel Stockton	USA, Stockton, CA	Taylor Fluid Dampers and Viscoelastic Dampers Total: 20 890 kN ± 100mm stroke 1668 kN ± 38mm stroke	2004	Seismic	Seismic retrofit of a 6-story historic concrete structure with a combination of fluid viscous and fluid viscoelastic dampers in diagonal braces.
Taishin Bank Headquarters	Taiwan, Taipei	Taylor Fluid Dampers Total: 72 980 kN ± 75mm stroke 1470 kN ± 75mm stroke 1962 kN ± 75mm stroke	2003-2004	Seismic	New 28-story steel framed office building uses dampers in chevron braces for earthquake energy dissipation.
Cross Keys Bridge	UK, South Lincolnshire	Taylor Fluid Dampers Total: 1 330 kN ± 92mm stroke	2003	Braking/Traction	Retrofit/upgrade of an old swing bridge. Device used to control braking/traction forces while allowing free thermal movement.
Guitai Construction Residential Building (KCEC)	Taiwan, Taipei	Taylor Fluid Dampers Total: 28 735 kN ± 50mm stroke	2003	Seismic	New 9-story steel reinforced concrete residential building uses dampers in chevron braces for earthquake energy dissipation.
Hilmar Gymnasium	USA, Hilmar, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2003	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.

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New de Young Fine Arts Museum	USA, San Francisco, CA	Taylor Fluid Dampers Total: 26 1112 kN ± 762mm stroke	2003	Seismic	New base isolated building uses fluid viscous dampers to add energy dissipation to isolation system for premium seismic performance.
PSU - Smith Memorial Center Building	USA, Portland, OR	Taylor Fluid Dampers Total: 118 400 kN ± 75mm stroke 845 kN ± 75mm stroke	2003	Seismic	Seismic upgrade to Portland State University Building. Dampers are used in chevron braces throughout this 4-story structure.
Renton Transfer Station	USA, Renton, WA	Taylor Fluid Dampers Total: 3 290 kN ± 75mm stroke	2003	Wind	New King County recycling center roof structure uses dampers in diagonal knee-brace for seismic energy dissipation.
Parklane Apartments	New Zealand, Wellington	Taylor Fluid Dampers Total: 8 10 kN ± 89mm stroke	2003	Wind	Retrofit of residential apartment building with dampers in two tuned mass dampers to reduce motion caused by wind.
Pearson Airport Control Tower	Canada, Toronto, ON	Taylor Fluid Dampers Total: 8 31 kN ± 89mm stroke	2003	Wind	New air traffic control tower uses dampers as part of a tuned mass damper to reduce motion caused by wind.
Peace & Friendship Stadium	Greece, Athens	Taylor Fluid Dampers Total: 128 1000 kN ± 85mm stroke 1200 kN ± 60mm stroke	2003	Seismic	Seismic upgrade and renovation to the roof of an isolated saddle-shaped stadium used for the 2004 Olympics in Athens.
Pietrasanta Residences	Venezuela, Barquisimeto	Taylor Fluid Dampers Total: 24 245 kN ± 75mm stroke	2003	Seismic	New 11-story residential building uses dampers to absorb seismic energy to provide unparalleled performance in this premium caliber structure.
Solano County Government Building	USA, Fairfield, CA	Taylor Fluid Dampers Total: 20 1560 kN ± 75mm stroke	2003	Seismic	New government building utilizes dampers in chevron braces to dissipate seismic energy.
Soldier Field	USA, Chicago, IL	Taylor Fluid Dampers Total: 42 9 kN ± 50mm stroke	2003	Spectator Vibration	New seating bowl for football stadium uses dampers in tuned mass dampers to reduce motion caused by spectator movements.
Taiwan High Speed Rail - Section C270	Taiwan, Yun Lin	Taylor Fluid Dampers Total: 34 3900 kN ± 125mm stroke	2003	Seismic	New high speed railway bridge sections use dampers to control movement at expansion joints during earthquake and train braking events.
Holland Hills Mori Tower RoP	Japan, Tokyo	Taylor Fluid Dampers Total: 204 650 kN ± 100mm stroke 1300 kN ± 100mm stroke 1800 kN ± 100mm stroke	2003	Seismic	New construction, 24-story building uses dampers to dissipate earthquake energy to reduce demands on the structure.
Cochrane Bridge	USA, Mobile, AL	Taylor Fluid Dampers Total: 68 40 kN ± 150mm stroke 22 kN ± 150mm stroke	2003	Wind	Retrofit of a cable-stayed bridge. Dampers attached to cable stays to reduce motion induced by a combination of wind and rain.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
Chung Hwa Telecommunications Building	Taiwan, San Hwa	Taylor Fluid Dampers Total: 12 1570 kN ± 100mm stroke	2003	Seismic	Retrofit of Taiwan Government-owned 3-story office and equipment telecommunications building. Uses dampers in chevron braces for earthquake energy dissipation.
San Francisco-Oakland Bay Bridge, West Span- Suspension Bridge	USA, San Francisco, CA	Taylor Fluid Dampers Total: 100 2000 kN ± 483mm stroke 2450 kN ± 584mm stroke 3115 kN ± 178mm stroke	2003	Seismic	Retrofit of suspension span between San Francisco and Yerba Buena island. Dampers used to dissipate seismic energy.
Abernethy Bridge	USA, Oregon City, OR	Taylor Fluid Dampers Total: 32 1000 kN ± 55mm stroke 1500 kN ± 75mm stroke 750 kN ± 155mm stroke	2002-2003	Seismic	Retrofit of an existing bridge. Dampers used to control earthquake movement and distribute forces while allowing free thermal movement.
Route 364 Page Avenue Extension Bridge	USA, St. Louis, MO	Taylor Fluid Dampers Total: 178 1050 kN ± 50mm stroke 756 kN ± 70mm stroke 1824 kN ± 50mm stroke 2225 kN ± 92mm stroke 556 kN ± 127mm stroke 867 kN ± 127mm stroke	2002-2003	Seismic	New tied arch/plate girder bridge uses dampers to control longitudinal earthquake movement while allowing free thermal movement.
Atatürk Airport Expansion	Turkey, Istanbul	Taylor Fluid Dampers Total: 68 45 kN ± 25mm stroke	2002	Seismic	Extension of International Terminal required additional damping devices to control deflection and minimize thermal restrictions of roof structure supported on FPS isolators.
BCBC Pandora Wing	Canada, Victoria, BC	Taylor Fluid Dampers Total: 76 220 kN ± 57mm stroke 130 kN ± 57mm stroke	2002	Seismic	Retrofit of a 7-story concrete frame/shear wall building built in 1974. Dampers used in chevron braces.
Boise Airport	USA, Boise, ID	Taylor Fluid Dampers Total: 8 445 kN ± 57mm stroke 756 kN ± 84mm stroke 979 kN ± 127mm stroke	2002	Seismic & Wind	New construction, airport terminal building uses dampers to dissipate earthquake energy to reduce demands on the structure.
Buddhist Headquarters	Taiwan, Taipei	Taylor Fluid Dampers Total: 60 981 kN ± 75mm stroke	2002	Seismic	New construction, 17-story building uses dampers to dissipate earthquake energy.
Gillette (Foxboro) Stadium	USA, Foxboro, MA	Taylor Fluid Dampers Total: 18 222 kN ± 178mm stroke	2002	Seismic	Dampers installed across expansion joints of a new open-air football stadium to control motion caused by seismic events.
Bill Emerson Memorial Bridge (Cape Girardeau)	USA, Cape Girardeau, MO	Taylor Fluid Dampers Total: 16 6700 kN ± 180mm stroke	2002	Seismic	New construction of a cable-stayed bridge. Dampers used to control longitudinal earthquake movement while allowing free thermal movement.

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Torre Mayor (Chapultepec Tower)	Mexico, Mexico City	Taylor Fluid Dampers Total: 98 5600 kN ± 52mm stroke 2770 kN ± 52mm stroke	2002	Seismic	New 55-story high-rise office/hotel tower uses dampers in mega-braces to dissipate earthquake energy.
Discovery Bay Gymnasium	USA, Discovery Bay, CA	Taylor Fluid Dampers Total: 8 107 kN ± 75mm stroke	2002	Seismic	New school athletic complex uses dampers in chevron braces to dissipate seismic energy.
Genentech FRC II	USA, San Francisco, CA	Taylor Fluid Dampers Total: 192 667 kN ± 102mm stroke 890 kN ± 102mm stroke 1334 kN ± 102mm stroke	2002	Seismic	New construction, 3-story multi-building complex uses dampers to dissipate earthquake energy.
HP Invent Building 5	USA, Corvallis, OR	Taylor Fluid Dampers Total: 18 400 kN ± 100mm stroke 135 kN ± 100mm stroke	2002	Seismic	Voluntary seismic upgrade of a critical manufacturing facility. Dampers are used in diagonal bracing to dissipate seismic energy.
Hollister Gymnasiums	USA, Hollister, CA	Taylor Fluid Dampers Total: 40 106 kN ± 76mm stroke	2002	Seismic	Voluntary seismic upgrade of a critical manufacturing facility. Dampers are used in diagonal bracing to dissipate seismic energy.
Hsien Dien/Tzu Chi Hospital	Taiwan, Taipei	Taylor Fluid Dampers Total: 48 890 kN ± 810mm stroke	2002	Seismic	New construction, dampers used to add energy dissipation to a base isolation system.
Immunex Corporation Helix Project – Central Utility Plant	USA, Seattle, WA	Taylor Fluid Dampers Total: 16 1670 kN ± 75mm stroke	2002	Seismic	New construction, 3-story steel frame building uses dampers to dissipate earthquake energy to reduce demands on the structure and switchgear equipment.
INTERCENTRO	Dominican Republic, Santo Domingo	Taylor Fluid Dampers Total: 48 950 kN ± 50mm stroke 1565 kN ± 50mm stroke 2240 kN ± 50mm stroke	2002	Seismic	New construction, 18-story steel frame building uses dampers to dissipate earthquake energy to reduce demands on the structure.
Poplar Street Bridge	USA, St. Louis, MO	Taylor Fluid Dampers Total: 64 1334 kN ± 183mm stroke 2224 kN ± 229mm stroke	2002	Seismic	Large highway bridge over the Mississippi River uses dampers to control longitudinal earthquake movement while allowing free thermal movement.
South Bay Office Tower	USA, San Jose, CA	Taylor Fluid Dampers Total: 88 490 kN ± 125mm stroke	2002	Seismic	Retrofit of a 10-story office building to upgrade seismic performance of flexible floor to column systems.
Stacy Park Reservoir	USA, St. Louis, MO	Taylor Fluid Dampers Total: 193 222 kN ± 63mm stroke 445 kN ± 63mm stroke	2002	Seismic	Seismic retrofit of an 8-section cover for a water reservoir. Dampers used to control motion caused by seismic events.
UC Irvine Hall Building	USA, Irvine, CA	Taylor Fluid Dampers Total: 14 267 kN ± 75mm stroke	2002	Seismic	Retrofit/seismic improvements to Graduate School of Management Building. Dampers are used in diagonal braces to provide energy dissipation for seismic events.

Name and Type of Structure	Country / City	Type and Number of Dampers	Date	Load	Additional Information
10th & K Street	USA, Sacramento, CA	Taylor Fluid Dampers Total: 4 823 kN ± 76mm stroke	2001	Seismic	Seismic retrofit of an office building. Dampers used in diagonal braces for seismic energy dissipation.
999 Sepulveda	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 60 2670 kN ± 75mm stroke	2001	Seismic	Retrofit of an 8-story steel frame building built in 1962. Dampers used in diagonal braces to dissipate seismic energy.
Dexter Horton Building	USA, Seattle, WA	Taylor Fluid Dampers Total: 18 1112 kN ± 63mm stroke	2001	Seismic	Seismic retrofit of a 15-story concrete frame/shear wall building. Dampers used in diagonal braces to dissipate seismic energy.
First International Computer Company Building	Taiwan, Taipei	Taylor Fluid Dampers Total: 144 266 kN ± 50mm stroke 434 kN ± 50mm stroke 583 kN ± 50mm stroke 989 kN ± 63mm stroke 1349 kN ± 63mm stroke	2001	Seismic	New construction, 14-story building uses dampers to dissipate earthquake energy. Cousin building to Taishin Bank.
Hearst Memorial Mining Building	USA, Berkeley, CA	Taylor Fluid Dampers Total: 26 890 kN ± 813mm stroke	2001	Seismic	Seismic retrofit of a 4-story brick laboratory building on the U.C. Berkeley campus. Dampers provide energy dissipation for a seismic isolation system.
J-city TOKYO Office Tower	Japan, Tokyo	Taylor Fluid Dampers Total: 241 785 kN ± 50mm stroke 1275 kN ± 75mm stroke	2001	Seismic	New construction, 23-story building uses dampers to dissipate earthquake energy to reduce demands on the structure.
Millennium Bridge	UK, London	Taylor Fluid Dampers Total: 37 50 kN ± 25mm stroke 50 kN +153/-377mm stroke 50 kN + 40/-80mm stroke	2001	Pedestrian Traffic	Retrofit of pedestrian bridge to reduce lateral and vertical movements caused by large groups of people walking on the bridge. Special metal bellows dampers used for maintenance-free operation over the life of the bridge under continuous cycling.
New Westminster, BC Police Building	Canada, New Westminster, BC	Taylor Fluid Dampers Total: 12 890 kN ± 70mm stroke	2001	Seismic	Retrofit of a 4-story concrete frame/shear wall building built in 1939. Dampers used in chevron braces inside new steel moment frames to balance irregularities in the building's stiffness.
Palo Alto Office Building	USA, Palo Alto, CA	Taylor Fluid Dampers Total: 22 1670 kN ± 152mm stroke	2001	Seismic	Seismic retrofit of an office building. Dampers used in chevron braces to dissipate seismic energy.
Sacramento River Bridge at Rio Vista	USA, Rio Vista, CA	Taylor Fluid Dampers Total: 10 825 kN ± 133mm stroke	2001	Seismic	Seismic retrofit of lift bridge towers to dampen the rocking effect during an earthquake.

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Taishin Bank	Taiwan, Taipei	Taylor Fluid Dampers Total: 144 266 kN ± 50mm stroke 434 kN ± 50mm stroke 583 kN ± 50mm stroke 989 kN ± 63mm stroke 1349 kN ± 63mm stroke	2001	Seismic	New construction, 14-story building uses dampers to dissipate earthquake energy. Cousin building to First International Computer Company Building.
Tokyo Rinkai Hospital	Japan, Tokyo	Taylor Fluid Dampers Total: 45 890 kN ± 813mm stroke	2001	Seismic	New construction, dampers used to add energy dissipation to a base isolation system.
WorldCom – Local Switch	USA, Oakland, CA	Taylor Fluid Dampers Total: 20 2225 kN ± 75mm stroke 2225 kN ± 150mm stroke	2001	Seismic	Seismic retrofit of a 17-story building. Dampers used in diagonal braces.
111 Huntington Avenue	USA, Boston, MA	Taylor Fluid Dampers Total: 60 1300 kN ± 101mm stroke	2000	Wind	New construction, 38-story building uses a combination of direct acting dampers and toggle brace dampers to reduce motion caused by wind storms.
Amolanas Bridge	Chile, Santiago	Taylor Fluid Dampers Total: 4 3000 kN ± 200mm stroke	2000	Seismic	New bridge utilizes dampers to absorb earthquake energy, reduce movement and distribute forces while allowing free thermal movement.
Atatürk Airport	Turkey, Istanbul	Taylor Fluid Dampers Total: 120 45 kN ± 25mm stroke	2000	Seismic	New international terminal with FPS isolators uses dampers to control deflection and minimize thermal restrictions.
East Huntington Bridge	USA, Huntington, WV	Taylor Fluid Dampers Total: 54 5 kN ± 25mm stroke 3 kN ± 25mm stroke	2000	Wind	Retrofit of a cable-stayed bridge. Dampers attached to cables to reduce vibrations caused by a combination of wind and rain.
Ingram Micro Office Building	USA, Santa Ana, CA	Taylor Fluid Dampers Total: 7 490 kN ± 127mm stroke	2000	Seismic	Voluntary seismic upgrade to this 3-story office building. Utilizes dampers in chevron braces for seismic energy dissipation.
William H. Harsha (Maysville Bridge)	USA, Maysville, KY	Taylor Fluid Dampers Total: 8 1300 kN ± 305mm stroke	2000	Seismic	New bridge utilizes dampers to control earthquake movement and distribute forces while allowing free thermal movement.
Millennium Place	USA, Boston, MA	Taylor Fluid Dampers Total: 40 445 kN ± 125mm stroke	2000	Wind	New construction, 37-story building uses dampers with toggle braces to reduce motion caused by wind storms.
Novelty Bridge #404B	USA, Seattle, WA	Taylor Fluid Dampers Total: 8 1450 kN ± 100mm stroke	2000	Seismic	Replacement bridge project in King County uses dampers to allow thermal movement and restrict seismic movements.
Qinshan III Nuclear Powerplant	China, Shanghai	Taylor Fluid Dampers Total: 16 445 kN ± 127mm stroke	2000	Seismic	New powerplant uses dampers in heat exchanger for seismic strengthening.

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Romanian Oil Refinery	Romania, Bucharest	Taylor Fluid Dampers Total: 8 33.3 kN ± 250mm stroke	2000	Seismic	Seismic retrofit of a 36-meter tower with a 600 tonnes mass on top. Dampers used as part of a tuned mass damping system to dissipate energy.
Triborough Bridge Approaches	USA, New York, NY	Taylor Fluid Dampers Total: 80 445 kN ± 152mm stroke	2000	Seismic	Retrofit of the approaches to a suspension bridge. Dampers used to control earthquake movement and distribute forces while allowing free thermal movement.
Web-hosting Data Center	USA, Pleasanton, CA	Taylor Fluid Dampers Total: 32 310 kN ± 64mm stroke	2000	Seismic	Voluntary seismic upgrade of a computer facility. Dampers used in chevron braces to dissipate seismic energy.
Yerba Buena Tower	USA, San Francisco, CA	Taylor Fluid Dampers Total: 20 445 kN ± 125mm stroke	2000	Wind	Voluntary seismic upgrade of a computer facility. Dampers used in chevron braces to dissipate seismic energy.
1414 K Street	USA, Sacramento, CA	Taylor Fluid Dampers Total: 8 1125 kN ± 63mm stroke	1999	Seismic	Retrofit of an existing office building. Dampers used in diagonal braces to dissipate earthquake energy.
Minute Maid Park (Ballpark at Union Station)	USA, Houston, TX	Taylor Fluid Dampers Total: 16 300 kN ± 153mm stroke	1999	Wind	New baseball stadium utilizes dampers to mitigate the effects of hurricane force winds on the roof structure.
Beijing Railway Station	China, Beijing	Taylor Fluid Dampers Total: 32 1300 kN ± 44mm stroke	1999	Seismic	Retrofit of a railway station. Dampers used in chevron bracing elements to dissipate earthquake energy.
Hyatt Park Tower	USA, Chicago, IL	Taylor Fluid Dampers Total: 10 45 kN ± 500mm stroke 22 kN ± 265mm stroke 45 kN ± 300mm stroke 175 kN ± 100mm stroke	1999	Wind	New 67-story reinforced concrete structure uses dampers as part of a Tuned Mass Damper to improve occupant comfort during wind storms.
I-5/91 HOV Bridge	USA, Anaheim, CA	Taylor Fluid Dampers Total: 8 1110 kN ± 200mm stroke	1999	Seismic	New bridge uses dampers to dissipate earthquake energy for reduced demands on the structure.
Los Angeles City Hall	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 68 1400 kN ± 600mm stroke 1000 kN ± 115mm stroke	1999	Seismic	Retrofit of City Hall building with dampers used to add energy dissipation to base isolation system. Also uses dampers at 27th floor to protect tower from earthquakes.
Microsoft Silicon Valley Campus – Building 1	USA, Mountain View, CA	Taylor Fluid Dampers Total: 15 1000 kN ± 75mm stroke	1999	Seismic	New construction, 10,000 square meter computer data center with dampers used in chevron bracing elements to dissipate seismic energy.
San Francisco International Airport - Rail Transit System Westside Guideway	USA, San Francisco, CA	Taylor Fluid Dampers Total: 10 4225 kN ± 508mm stroke 3115 kN ± 508mm stroke	1999	Seismic	New Airport Rail Transit (ART) and Bay Area Rapid Transit (BART) structure implement dampers for earthquake energy dissipation.

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San Francisco International Airport - South International Parking Garage Pedestrian Bridge	USA, San Francisco, CA	Taylor Fluid Dampers Total: 20 445 kN ± 254mm stroke	1999	Seismic	New pedestrian bridge utilizes dampers to dissipate earthquake energy and reduce movement.
San Francisco - Oakland Bay Bridge, East Span - Truss Bridge	USA, San Francisco, CA	Taylor Fluid Dampers Total: 6 890 kN ± 406mm stroke	1999	Seismic	Interim retrofit of East Bay 504 truss sections. Dampers used to dissipate seismic energy.
Santa Clara Police Facility	USA, Santa Clara, CA	Taylor Fluid Dampers Total: 40 575 kN ± 25mm stroke 800 kN ± 25mm stroke	1999	Seismic	New police facility utilizes dampers in chevron bracing elements to dissipate earthquake energy.
Sidney Lanier Bridge	USA, Glynn County, GA	Taylor Fluid Dampers 2200 kN ± 203mm stroke	1999	Seismic	New bridge utilizes dampers to control earthquake movement and distribute forces while allowing free thermal movement.
The Nethercutt Collection	USA, Sylmar, CA	Taylor Fluid Dampers Total: 32 1500 kN ± 75mm stroke 1065 kN ± 75mm stroke 665 kN ± 75mm stroke	1999	Seismic	New construction, automotive museum with dampers used in diagonal braces to dissipate seismic energy.
Transbay Transit Terminal	USA, San Francisco, CA	Taylor Fluid Dampers Total: 36 1300 kN ± 44mm stroke 1300 kN ± 76mm stroke	1999	Seismic	Retrofit of a bus terminal. Dampers used in chevron bracing elements to dissipate earthquake energy.
Willamette River Pedestrian Bridge	USA, Eugene, OR	Taylor Fluid Dampers Total: 4 500 kN ± 40mm stroke	1999	Seismic & Wind	Retrofit of a bridge over the Willamette River. Dampers used to control wind and earthquake movement while allowing free thermal movement.
SAFECO Field (New Pacific Northwest Baseball Park)	USA, Seattle, WA	Taylor Fluid Dampers Total: 36 1780 kN ± 100mm stroke 890 kN ± 400mm stroke	1998-1999	Wind & Kinetic Energy	Dampers installed between three roof sections and at end stops to absorb energy from impact due to wind, kinetic energy and motor drive.
First Avenue South Bridge	USA, Seattle, WA	Taylor Fluid Dampers Total: 4 600 kN + 635mm stroke	1998	Kinetic Energy of Moving Bridge	Retrofit of a bascule bridge to protect the bascule leafs from runaway motors and brake failures.
SAFECO Field (New Pacific Northwest Baseball Park)	USA, Seattle, WA	Taylor Fluid Dampers Total: 8 3600 kN ± 381mm stroke	1998	Seismic & Wind	New baseball stadium utilizes dampers to dissipate earthquake energy in each of three movable roof sections.
Tillamook Hospital	USA, Tillamook, OR	Taylor Fluid Dampers Total: 30 135 kN ± 50mm stroke	1998	Seismic	Retrofit of an existing hospital to meet current seismic protection code levels. Dampers used in chevron braces to dissipate earthquake energy.
UCLA-Knudsen Hall	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 84 355 kN ± 100mm stroke 245 kN ± 100mm stroke	1998	Seismic	Seismic upgrade of a University building. Dampers used in chevron bracing elements to dissipate earthquake energy.

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Alaska Commercial Building	USA, Alaska	Taylor Fluid Dampers Total: 2 445 kN ± 64mm stroke	1997	Seismic	Retrofit of a timber frame structure. Dampers used in diagonal bracing to dissipate earthquake energy.
CSULA Administration Building	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 14 1100 kN ± 75mm stroke	1997	Seismic	Seismic upgrade to office building. Dampers used in chevron bracing elements to dissipate seismic energy.
Hayward City Hall	USA, Hayward, CA	Taylor Fluid Dampers Total: 15 1400 kN ± 600mm stroke	1997	Seismic	New construction, dampers used to add energy dissipation to friction pendulum bearing isolation system.
Quebec Iron and Titanium Smelter	Canada, Tracy	Taylor Spring Dampers and Taylor Dampers Total: 22 450 kN ± 64mm stroke 225 kN ± 100mm stroke 130 kN ± 100mm stroke	1997	Seismic & Wind	Dual purpose spring dampers used for seismic and wind protection of two smelter buildings. Dampers used to prevent buildings from impacting during a seismic event.
Rockwell Building 505	USA, Newport Beach, CA	Taylor Fluid Dampers Total: 6 320 kN ± 64mm stroke	1997	Seismic	Retrofit of a long building with multiple expansion gaps. Dampers restrict relative movement between building sections.
San Francisco Civic Center	USA, San Francisco, CA	Taylor Fluid Dampers Total: 292 1000 kN ± 100mm stroke 550 kN ± 100mm stroke	1997	Seismic	New construction, 14-story, 80,000 square meter Government office building with dampers in diagonal bracing elements to dissipate seismic energy.
Studio Parking Garage	USA, Los Angeles, CA	Taylor Fluid Dampers Total: 2 150 kN ± 50mm stroke	1997	Seismic	Dampers used to allow thermal motion, concrete expansion/contraction and creep, while controlling earthquake movement.
Worcester's Centrum Centre/Arena and Convention Complex	USA, Worcester, MA	Taylor Fluid Dampers Total: 32 10 kN ± 75mm stroke	1997	Pedestrian Traffic & Dancing	Ballroom floor tuned mass damping system to eliminate perceptible vibrations due to dancing input and other potential input motions.
28 State Street	USA, Boston, MA	Taylor Fluid Dampers Total: 40 670 kN ± 25mm stroke	1996	Wind	Wind dampers used in diagonal bracing for comfort level improvements to a completely renovated high-rise office building.
Arrowhead Regional Medical Center (5 buildings)	USA, San Bernardino, CA	Nonlinear Taylor Fluid Dampers Total: 186 1400 kN ± 600mm stroke	1996	Seismic	New construction, dampers used to add energy dissipation to rubber bearing isolation system in five independently isolated buildings.
CSUS Science II Building	USA, Sacramento, CA	Taylor Fluid Dampers Total: 40 220 kN ± 50mm stroke	1996	Seismic	Seismic dampers used in chevron bracing of this new structure to dissipate seismic energy.
First Avenue Bridge	USA, Seattle, WA	Taylor Fluid Dampers Total: 4 400 kN + 685mm stroke	1996	Kinetic Energy of Moving Bridge	Protection of new bascule leafs from runaway motors and brake failures.
Hotel Woodland	USA, Woodland, CA	Taylor Fluid Dampers Total: 16 450 kN ± 50mm stroke	1996	Seismic	Seismic retrofit of 4-story historic concrete structure with fluid dampers in chevron bracing.

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Kaiser Data Center	USA, Corona, CA	Taylor Fluid Dampers Total: 16 425 kN ± 560mm stroke	1996	Seismic	Seismic retrofit with dampers used to add energy dissipation to rubber bearing isolation system.
Langenbach House	USA, Oakland, CA	Taylor Fluid Dampers Total: 4 130 kN ± 150mm stroke	1996	Seismic	Seismic dampers used to provide energy dissipation in base isolation system.
Montlake Bridge	USA, Seattle, WA	Taylor Fluid Dampers Total: 4 240 kN ± 483mm stroke	1996	Kinetic Energy of Moving Bridge	Retrofit of a bascule bridge to protect the bascule leaves from runaway motors and brake failures.
The Money Store National Headquarters	USA, Sacramento, CA	Taylor Fluid Dampers Total: 120 1290 kN ± 64mm stroke 710 kN ± 64 mm stroke	1996	Seismic	New construction, pyramid shaped 11-story office building, moment frame structure with dampers in diagonal braces.
Pacific Bell North Area Operation Center	USA, Sacramento, CA	Taylor Fluid Dampers Total: 62 130 kN ± 50mm stroke	1995	Seismic	New construction, 3-story steel braced frame, dampers in chevron braces used to dissipate seismic energy.
Petronas Twin Towers	Malaysia, KLCC	Taylor Fluid Dampers Total: 12 10 kN ± 50mm stroke	1995	Wind	Kuala Lumpur City Centre high-rise towers, part of mass damping system in skybridge legs.
Ralph Wilson Stadium	USA, Buffalo, NY	Taylor Fluid Dampers Total: 12 50 kN ± 460mm stroke	1993	Wind	Wind dampers connect light poles to the stadium parapet wall to eliminate base plate anchor bolt fatigue.
West Seattle Bridge	USA, Seattle, WA	Taylor Fluid Dampers Total: 6 1000 kN + 406mm stroke 2515 kN + 254mm stroke	1990	Kinetic Energy of Moving Bridge	Deck isolation for swing bridge.
North American Air Defense Command	USA, Cheyenne Mountain, CO	Taylor Dampers Quantity, type, and size are classified	1984	Nuclear Attack	Classified.