Structural Applications of Fluid Viscous Dampers

SUMMARY							
Total Number of Structures =	484						
Buildings =	341						
Bridges =	123						
Other =	17						
Total Number of Dampers =	18,338						

Name and Type of Structure	Country/City	Type and Number of Dampers	Date	Load	Additional Information
Kichijyouji Station	Japan, Tokyo	Taylor Viscous Dampers	2013	Seismic	New 10-story steel frame building for station/offices
Farglory H96	Taiwan/New Taipei	Taylor Viscous Dampers	2013	Seismic	New 23-story RC residential building uses viscous
Farglory H93	Taiwan/New Taipei	Taylor Viscous Dampers	2013	Seismic	Project consists of three 23-story RC residential
Qinshi #3 Provence	Taiwan/YiLan	Taylor Viscous Dampers	2013	Seismic	Long Stroke dampers are incorporated in this base
Farglory H93	Taiwan	Taylor Viscous Dampers	2013	Seismic	
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 45000 kN ± 4" stroke	2012	Seismic	
Oasis Hotel	Haiti	Taylor Viscous Dampers Total: 16 30000 kN ± 4" stroke	2012	Seismic	
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.
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. Rivetted steel frame to be protected by dampers in chevron drivers dissipating seismic energy.
New Nonsangrand Bridge	Korea, Nonsan	Taylor Viscous Dampers Total: 8 750 kN ± 150mm stroke	2012	Seismic	Seismic retrofit of a 500m, multi-span, steel girder bridge.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		$2000 \text{ kN} \pm 450 \text{mm stroke}$			
Byeongieom Bridge	Korea, Hwaseong	Taylor Viscous Dampers	2012	Seismic	Tuned Mass Damper (TMD) System used to
		Total: 32			control vertical vibrations caused by vehicle traffic.
		MODEL 1 1/2 X 4 D-SERIES			·
Three Gorges Ship Lift	China, Wuhan	Taylor Viscous Dampers	2012	Seismic	
		Total: 3			
		1500 KN ± 100mm stroke			
Patio Mayor Project #945	Chile	Taylor Viscous Dampers	2012	Seismic	
		Total: 36			
		$550 \text{ kN} \pm 75 \text{mm stroke}$			
Dexin Hsin-Chu A+7	Taiwan /Hsin Chu	Taylor Viscous Dampers	2012	Seismic	New SRC residential building uses viscous dampers
		Total: 66			to dissipate seismic energy.
		50 MT ± 75mm stroke			
Qinshi #3 Tuscany	Taiwan/YiLan	Taylor Viscous Dampers	2012	Seismic	Long Stroke dampers are incorporated in this base
		Total: 8			isolation project for drift control
		50 MT ± 500mm stroke			
Forworld Fuzhong	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New SRC residential building uses viscous dampers
		Total: 60			to dissipate seismic energy.
		50 kN ± 75mm stroke			
Corning Tainan Building A	Taiwan/Tainan	Taylor Viscous Dampers	2012	Seismic	Uses dampers to dissipate earthquake energy.
		Total: 137			
		$200 \text{ MT} \pm 75 \text{mm stroke}$			
		270 MT ± 75mm stroke			
		$170 \text{ MT} \pm 75 \text{mm stroke}$			
		250 MT ± 75mm stroke			
Ruentex Botanical Gardens	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	Long Stroke dampers are incorporated in this base
		Total: 6			isolation project for drift control
		100 MT ± 750mm stroke			
		200 MT ± 750mm stroke	2012	~	
Digua Building		Taylor Viscous Dampers	2012	Seismic	
		Total: 16			
	m · m · i	33000 kN ± 100mm stroke	2012	g · ·	TT 1 (1)
Corning Taichung Phase 1	Taiwan, Taichung	Taylor Viscous Dampers	2012	Seismic	Uses dampers to dissipate earthquake energy.
		Total: 102			
		280 MT ± 75mm stroke			
		350 MT ± 125mm stroke			
		$330 \text{ MT} \pm 100 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Corning Tainan Building B	Taiwan, Tainan	Taylor Viscous Dampers	2012	Seismic	Uses dampers to dissipate earthquake energy.
		Total: 110			
		270 MT \pm 75mm stroke			
		$350 \text{ MT} \pm 100 \text{mm} \text{ stroke}$			
		$310 \text{ MT} \pm 100 \text{mm} \text{ stroke}$			
		490 MT ± 120mm stroke			
		460 MT ± 120mm stroke			
		430 MT ±120mm stroke			
		390 MT ± 100mm stroke			
Vida Security	Chile	Taylor Viscous Dampers	2012	Seismic	
, and the sign of		Total: 84			
		$650 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Canberra Bridge	Australia	Taylor Viscous Dampers	2012	Seismic	
0		Total: 4			
		$500 \text{ kN} \pm 100 \text{mm stroke}$			
Chonghong Xihu	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	New 28-story SRC residential building uses viscous
		Total: 112			dampers to dissipate seismic energy.
		100 MT ± 75mm stroke			dimpers to dissipate seismic energy.
		50 MT ± 75mm stroke			
Talca Hospital	Chile	Taylor Viscous Dampers	2012	Seismic	
1 m.v. 1105p.v		Total: 40			
		50 MT ± 75mm stroke			
Papermart	USA, Orange, CA	Taylor Viscous Dampers	2012	Seismic	
- mp		Total: 4			
		16500 kN ± 75mm stroke			
Beehive Clothing	USA, Utah	Taylor Viscous Dampers	2012	Seismic	
Beenive Citeting	CSA, Ctan	Total: 8	2012	Scisinic	
		33000 kN \pm 2" stroke			
		$67500 \text{ kN} \pm 2" \text{ stroke}$			
Oasis Hotel	Haiti	Taylor Viscous Dampers	2012	Seismic	
Ousis Hotel	Trait.	Total: 16	2012	Scisinic	
		30000 kN ± 4" stroke			
Taota #20 Project	Taiwan/Taoyuan	Taylor Viscous Dampers	2012	Seismic	New RC residential building uses viscous dampers
1 αστα π20 110ject	aiwan/i aoyuan	Total: 16	2012	Scisinic	to dissipate seismic energy.
		50 MT ± 75mm stroke			to dissipate scisific energy.
Uni-President Zhubei	Taiwan/Hsin Chu	Taylor Viscous Dampers	2012	Seismic	New RC residential building uses viscous dampers
Om-1 resident Zhubei	Taiwaii/fisiii Cilu	Total: 28	2012	Seisinic	to dissipate seismic energy.
					to dissipate seisinic energy.
		50 MT ± 75mm stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Truge	Ciniii.	Total: 48	2012	Scisinic	
		2000 kN ± 450mm stroke			
Corning Taichung Phase 2	Taiwan, Taichung	Taylor Viscous Dampers	2012	Seismic	Uses dampers to dissipate earthquake energy.
Corning Farenting France 2	Turwan, Turenang	Total: 99	2012	Scisinic	eses dampers to dissipate carridance energy.
		250 MT ± 75mm stroke			
		280 MT ± 75mm stroke			
		360 MT ± 75mm stroke			
		320 MT ± 75mm stroke			
		420 MT ± 100mm stroke			
San Bernardino Justice	USA, San Bernardino,		2012	Seismic	
San Bernaramo vastice	CA	Total: 184	2012	Scisinic	
		44000 kN ± 5" stroke			
Win Sing Xin Yi G1	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	New SRC residential building uses viscous dampers
Win sing run 11 G1	Turwam ruiper	Total: 120	2012	Scisinic	to dissipate seismic energy.
		50 MT ± 55mm stroke			o unsupare sersame onergy
		80 MT ± 75mm stroke			
New Jerusalem Elementary School	USA, Tracy, CA	Taylor Viscous Dampers	2012	Seismic	New school athletic complex uses dampers in
	,,	Total: 8			chevron braces to dissipate seismic energy.
		3600 kN			
TSMC FAB #15, Phase 3	Taiwan/Taichung	Taylor Viscous Dampers	2012	Seismic	Retrofit of a semiconductor fabrication plant uses
,		Total: 28			dampers to dissipate seismic energy and reduce
		200 MT± 75mm stroke			vibrations in earthquake.
Farglory H90	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New 24-story RC residential building uses viscous
	•	Total: 80			dampers to dissipate seismic energy.
		100 MT ± 750mm stroke			
Farglory H91	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New 23-story RC residential building uses viscous
		Total: 44			dampers to dissipate seismic energy.
		100 MT ± 75mm stroke			
Farglory H92	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New RC residential building uses viscous dampers
		Total: 44			to dissipate seismic energy.
		100 MT ± 75mm stroke			
Taifer Nangang	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	New SRC residential building uses viscous dampers
		Total: 56			to dissipate seismic energy.
		50 MT ± 75mm stroke			
Chengmao Xinzhuang	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New RC residential building uses viscous dampers
		Total: 28			to dissipate seismic energy.
		50 MT ± 75mm stroke			
Tianjin Guomao	China, Tianjin	Taylor Viscous Dampers	2012	Seismic	
		Total: 12			
		50 MT ± 75mm stroke			
Luzhou 709	Taiwan/New Taipei	Taylor Viscous Dampers	2012	Seismic	New 11- story RC residential project uses dampers
		Total: 14	[[to dissipate earthquake energy.
		50 MT ± 75mm stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		10tal: 48 2000 kN ± 450mm stroke			
Taipower Wang Long	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	New 15-story SRC electrical substation uses
Taipower wang Long	Taiwan/Taipei	Total: 271	2012	Seisinic	dampers to reduce seismic responses.
		500 kN ± 50mm stroke			dampers to reduce seismic responses.
		1000 N ± 50mm stroke			
3300 Webster	USA, Oakland, CA	Taylor Viscous Dampers	2012	Seismic	
5500 Webster	Cori, Gamana, Cri	Total: 12	2012	Seisine	
		16500 kN ± 6" stroke			
		33000 kN ± 6" stroke			
Pismo Beach Athletic Club	USA, Pismo Beach,	Taylor Viscous Dampers	2012	Seismic	
2 30330 20003 13033000 0300	CA	Total: 10		201011110	
		3000 kN ± 3" stroke			
TSMC FAB #14, P5	Taiwan/Tainan	Taylor Viscous Dampers	2012	Seismic	Retrofit of a semiconductor fabrication plant uses
,		Total: 52			dampers to dissipate seismic energy and reduce
		150 MT ± 75mm stroke			vibrations in earthquake.
Haramain HSR	Saudi Arabia	Taylor Viscous Dampers	2012	Seismic	·
		Total: 64			
		500 KN LOCK-UP DEVICE, L			
		= 1870 MM			
Fubon Dun-Nan	Taiwan/Taipei	Taylor Viscous Dampers	2012	Seismic	New 17-story steel residential building uses viscous
		Total: 28			dampers to dissipate seismic energy.
		100 MT ± 100mm stroke			
		150 MT ± 100mm stroke			
Santiago Creek Bridge	USA, Irvine, CA	Taylor Viscous Dampers	2011	Seismic	
		Total: 6			
		16,000 kN ± 15" stroke			
Corning Taichung Phase 4	Taiwan, Taichung	Taylor Viscous Dampers	2011	Seismic	Uses dampers to dissipate earthquake energy.
		Total: 65			
		450 MT ± 125mm stroke			
		420 MT ± 100mm stroke			
		390 MT ± 75mm stroke			
		350 MT ± 75mm stroke			
Yihua Dazhi	Taiwan/Taipei	Taylor Viscous Dampers	2011	Seismic	Project includes two 42-story SRC residentail
		Total: 265			buildings and one 39-story SRC hotel building.
		100 MT ± 75mm stroke		~	Dampers are used to reduce seismic responses.
Marneris (Greece) Protas Eniskyes	Greece	Taylor Viscous Dampers	2011	Seismic	Seismic upgrade of a 6-story residential building.
		Total: 16			Dampers used in diagonal braces to dissipate
		250 kN \pm 75mm stroke			seismic energy.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		$2000 \text{ kN} \pm 450 \text{mm stroke}$			
Corning Taichung Phase 3	Taiwan/Taichung	Taylor Viscous Dampers	2011	Seismic	Uses dampers to dissipate earthquake energy.
		Total: 90			
		100 MT ± 100mm stroke			
		120 MT ± 100mm stroke			
		150 MT ± 150mm stroke			
		180 MT ± 75mm stroke			
		$200 \text{ MT} \pm 125 \text{mm stroke}$			
		250 MT ± 175mm stroke			
Las Condes Captial	Chile	Taylor Viscous Dampers	2011	Seismic	
_		Total: 46			
		$850 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Project Marneris	Greece	Taylor Viscous Dampers	2011	Seismic	
		Total: 16			
		$250 \text{ kN} \pm 75 \text{mm stroke}$			
TSMC #12 P6	Taiwan/Hsin Chu	Taylor Viscous Dampers	2011	Seismic	Retrofit of a semiconductor fabrication plant uses
		Total: 40			dampers to dissipate seismic energy and reduce
		200 MT ± 75mm stroke			vibrations in earthquake.
Farglory H85	Taiwan/New Taipei	Taylor Viscous Dampers	2011	Seismic	New 25-story RC residential building uses viscous
		Total: 96			dampers to dissipate seismic energy.
		100 MT ± 75mm stroke			
Farglory H86	Taiwan/New Taipei	Taylor Viscous Dampers	2011	Seismic	New RC residential building uses viscous dampers
		Total: 128			to dissipate seismic energy.
		100 MT ± 75mm stroke			
2020 Lawrence	USA, Denver, CO	Taylor Viscous Dampers	2011	Seismic	
		Total: 10			
		$50,000 \text{ kN} \pm 2" \text{ stroke}$			
Taota Taoyuan 19th	Taiwan/Taoyuan	Taylor Viscous Dampers	2011	Seismic	New RC residential building uses viscous dampers
		Total: 40			to dissipate seismic energy.
		50 MT ± 75mm stroke			
Chinatrust Headquarters	Taiwan/Taipei	Taylor Viscous Dampers	2011	Seismic	Dampers are installed in this steel structure to
		Total: 367			reduce structural responses in earthquakes.
		$1500 \text{ MT} \pm 75 \text{mm stroke}$			
		1000 MT ± 75mm stroke			
		1000 MT ± 800mm stroke			
Carranza Stadium	Spain	Taylor Viscous Dampers	2011	Seismic	Dampers used to protect the roof of a new stadium.
		Total: 2			
		$500 \text{ kN} \pm 75 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		2000 kN \pm 450mm stroke			
Corning Taichung P6M	Taiwan/Taichung	Taylor Viscous Dampers Total: 98	2011	Seismic	Uses dampers to dissipate earthquake energy.
		186 MT ± 50mm stroke			
		272 MT ± 50mm stroke			
		272 MT ± 50mm stroke			
		272 MT ± 75mm stroke 272 MT ± 100mm stroke			
		272 MT ± 100mm stroke 272 MT ± 125mm stroke			
		2/2 MT ± 125mm stroke 340 MT ± 150mm stroke			
125 Rue Faubert	Haiti	Taylor Viscous Dampers	2011	Seismic	
123 Rue Paubert	l l alti	Total: 20	2011	Seisinic	
		26,000 kN ± 4" stroke			
Unibank Haiti	Haiti	Taylor Viscous Dampers	2011	Seismic	
Chibank Haiti	Truite	Total: 16	2011	Seisine	
		25800 kN \pm 4" stroke			
Cementos Bio Bio	Chile	Taylor Viscous Dampers	2011	Seismic	
		Total: 1			
		25 MT ± 75mm stroke			
Carranza Stadium	Spain	Taylor Viscous Dampers	2011	Seismic	
	1	Total: 2			
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Chochun 2nd Bridge	Korea, Yeongi	Taylor Viscous Dampers	2011	Seismic	Seimic retrofit of a 150m, lulti-span, PSC-beam
		Total: 2			bridge.
		$500 \text{ kN} \pm 150 \text{mm} \text{ stroke}$			
QVC Japan Project	Japan, Chiba	Taylor Viscous Dampers	2011	Seismic	Dampers used as part of a base isolation system for
		Total: 8			a new 7 story 37,174 m^2 steel frame building.
		1450 kN ± 610mm stroke			
Rosario North Project	Chile	Taylor Viscous Dampers	2011	Seismic	
		Total: 52			
		650 kN ± 100mm stroke			
Shomyo Project	Japan, Yokohama	Taylor Viscous Dampers	2011	Seismic	New 6-story fixed base steel frame building uses
	City Kanagawa	Total: 38			dampers in diagonal braces to absorb earthquake
		700 kN ± 100mm stroke			energy.
		1000 kN ± 100mm stroke			
		1250 kN ± 100mm stroke 1750			
	770.1.5	kN ± 100mm stroke	•011	~	
Yahoo Center	USA, Santa Monica,	Taylor Viscous Dampers	2011	Seismic	
	CA	Total: 60			
		45,000 kN ± 4" stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
Kimpo Airport	Korea	2000 kN ± 450mm stroke 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.
Corning Beijing	China	Taylor Viscous Dampers Total: 59 800 kN 800 kN 1150 kN	2011	Seismic	while allowing free thermal movement.
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 higheay 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	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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN \pm 450mm stroke			
Farglory H80 Project	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 12-story RC residential project uses dampers
· ·	Taipei	Total: 12			to dissipate earthquake energy.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Fashion Island Theater	USA,	Taylor Viscous Dampers	2011	Seismic	Voluntary seismic upgrade of pre-Northridge
	Newport Beach, CA	Total: 20			construction theatre building, uses viscous dampers
		$735 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			in the structural frame to reduce seismic response.
		$1000 \text{ kN} \pm 300 \text{mm} \text{ stroke}$			
		$1500 \text{ kN} \pm 400 \text{mm} \text{ stroke}$			
		$1000 \text{ kN} \pm 200 \text{mm stroke}$			
Fu Yu Project	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	
	Taipei	Total: 4			
		$150 \text{ kN} \pm 25 \text{mm stroke}$			
Fujian Wulongjiang Bridge	CHINA,	Taylor Lock up Devices	2011	Seismic	Lock-up Devices used to control seismic movement
	Fujian	Total: 4			while allowing free thermal movement.
		$6000 \text{ kN} \pm 300 \text{mm} \text{ stroke}$			
Global Team Group #236	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 21-story RC residential project uses dampers
	Taipei	Total: 14			to dissipate earthquake energy.
		500 kN ±75mm stroke			
Global Team Group #30	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 17- story RC residential project uses dmapers
	Taipei	Total: 8			to dissipate earthquake energy.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
He Huan Hsin-Dien Project	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 29-story SRC residential project uses dampers
	Taipei	Total: 224			to reduce vibrations caused by earthquake.
		$500 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Henley Street Bridge	USA,	Taylor Lock up Devices	2011	Seismic	Demolition and replacement of the 1,793 foot
	Knoxville, TN	Total: 20			bridge deck and the vertical, concrete supports
		$200 \text{ kN} \pm 75 \text{mm stroke}$			above the arches, addition of a sixth land to 79 year
		750 kN ± 100mm stroke			old span across Fort Loundoun Lake.
Hsin-Lung Nan-Hai	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New SRC residential project uses dampers to
	Taipei	Total: 2			dissipate earthquake energy.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Huaku & Taifer Nan-Gang H6 Project	TAIWAN,	Taylor Dampers	2011	Seismic	New 18-story residential project, dampers are
	Taipei	Total: 20			installed with base isolation system to reduce
		900 kN ± 812mm stroke			earthquake movement.
Huaku Hsin Chu	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 25-story SRC residential building uses
	HisnChu	Total: 16			dampers to dissipate earthquake.
		1000 kN ± 75mm stroke			
Huaku Ji-Lin Project B	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 14-story SRC residential building uses
	Taipei	Total: 8			dampers to dissipate earthquake.
		$1000 \text{ kN} \pm 75 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Huaku V-Park	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New construction, a 16-story SRC business building
	Taipei	Total: 36			uses dampers to dissipate seismic energy.
		$500 \text{ kN } \pm 75 \text{mm stroke}$			
LeTerrazze Shopping Center	ITALY,	Taylor Lock up Devices	2011	Seismic	Lock-up devices used to link different structural
	La Spezia	Total: 55			units of a prefabricated concrete building, under
		$1000 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			seismic actions, thus leaving them seperated during
		$2000 \text{ kN} \pm 50 \text{mm stroke}$			normal service.
Moonam Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2011	Seismic	Seismic retrofit fo a 120 m multi-span PSC beam
	Goseong	Total: 4			bridge using dampers.
		$500 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
New Janghowon Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2011	Seismic	Seismic retrofit of a 240 m multi-span PSC beam
	Eumseong	Total: 8			bridge using dampers.
		$500 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Newton Reservoir	CANADA,	Taylor Viscous Dampers	2011	Seismic	
	Surrey, BC	Total: 16			
		$1000 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			
RCMP Richmond Community Safety	CANADA,	Taylor Dampers	2011	Seismic	This project is to upgrade to post-disaster
Building	Richmond, BC	Total: 20			standards and to renovate the existing building to
		$600 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			accommodate the new RCMP Richmond
					Headquarters.
Sunpo Hong-Yun Project	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New 19-story RC building, uses dampers to
	Taipei	Total: 8			dissipate earthquake energy.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Taichung Factory, P5 & P6	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	
	Taichungi	Total: 117			
		$5400 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			
		$4300 \text{ kN} \pm 150 \text{mm} \text{ stroke}$			
		$3600 \text{ kN} \pm 175 \text{mm stroke}$			
		3400 kN ±175mm stroke			
		$2700 \text{ kN} \pm 150 \text{mm} \text{ stroke}$			
		$1860 \text{ kN} \pm 50 \text{mm stroke}$			
Nanguo The Ellipse 360 Tower	TAIWAN,	Taylor Viscous Dampers	2011	Seismic	New steel construction, a 28-story residential
	Taipei	Total: 153			project uses dampers to reduce vibration caused by
		1000 kN ± 75mm stroke			wind forces.
Tiangjin Qinghuangdao Bridge	CHINA,	Taylor Lock up Devices	2011	Seismic	New railway bridge use Lock-up Devices to control
	Beijing	Total: 50			bridge deck movement during seismic events.
		$4000 \text{ kN} \pm 100 \text{mm}$ stroke			
		$4500 \text{ kN} \pm 100 \text{mm}$ stroke			
		$5000 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		2000 kN ± 450mm stroke			
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.
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 veritcal steel frames to dissipate earthquake energy.
Nangang ditch 3rd Bridge	SOUTH KOREA, Hamyang	Taylor Viscous Dampers Total: 8 1000 kN ± 300mm stroke	2011	Seismic	Seismic retrofit fo 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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Adams Middle School	USA,	Taylor Viscous Dampers	2010	Seismic	New school athletic complex uses dampers in
	Redondo Beach, CA	Total: 8			chevron braces to dissipate seismic energy.
		160 kN ± 75mm stroke			
Alexandra Bridge	CANADA,	Taylor Viscous Dampers	2010	Pedestrian	This circa 1901 railway bridge was converted to a
	Ottawa, Ontario	Total: 8			auto and pedestrian traffic in the 1970's. The
		1 kN ± 100mm stroke			TMD's were found to be required after a spike in
					pedestrian traffic caused excessive vibration during
	TO T	T. 1. XV. D.	2010	g	the July 1st "Canada Day" festivities.
Apollo Hospital	INDIA,	Taylor Viscous Dampers	2010	Seismic	
	New Delhi	Total: 32			
C C MIN C I I	TICA	500 kN ± 100mm stroke	2010	g : :	NY 1 1 (11 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Cesar Chavez Middle School	USA,	Taylor Viscous Dampers	2010	Seismic	New school athletic complex uses dampers in
	Planada, CA	Total: 8			chevron braces to dissipate seismic energy.
	TIG A	107 kN ± 75mm stroke	2010	g	
Chaparral Middle School	USA,	Taylor Viscous Dampers	2010	Seismic	New school athletic complex uses dampers in
	Diamond Bar, CA	Total: 8			chevron braces to dissipate seismic energy.
2 24		160 kN ± 75mm stroke	2010	g	G 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Daesung Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2010	Seismic	Seismic retrofit fo a 670 m multi-span PSC beam
	Gapyeong	Total: 6			bridge using dampers.
7.5	770.4	500 kN ± 100mm stroke	2010	<u> </u>	
Duke Energy IGCC	USA,	Taylor Lock up Devices	2010	Seismic	
	Edwardsport, IN	Total: 14			
D (D)	NEW GEATAND	1000 kN ± 100mm stroke	2010	g	
East Taupo Bridge	NEW ZEALAND,	Taylor Lock up Devices	2010	Seismic	
	East Taupo	Total: 4			
		1000 kN ± 100mm stroke			
	COLUMN KODE	750 kN ± 100mm stroke	2010	g : :	G · · · · · · · · · · · · · · · · · · ·
Galchun 2nd Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2010	Seismic	Seismic retrofit fo a 153 m multi-span PSC beam
	Bonghwa	Total: 4			bridge using dampers.
Classical Life Davids	TICA	500 kN ± 100mm stroke	2010	IZ'A' E	
Gilmerton Lift Bridge	USA,	Taylor Viscous Dampers	2010	Kinetic Energy	
	Chesapeake, VA	Total: 4		of Moving	
Winner Admin and D2	COLUTH MODE A	450 kN + 400mm stroke	2010	Bridge	Datus fit of suisting townsing heighing. Down one
Kimpo Airport P3	SOUTH KOREA,	Taylor Viscous Dampers	2010	Seismic	Retrofit of existing terminal building. Dampers
	Seoul	Total: 20			installed across expansion joints of 3-story concrete
		500 kN ± 100mm stroke			frame.
Vyungija Diyan 1st Duidsa	COUTH LODE A	1000 kN ± 100mm stroke	2010	Cojemia	Soigmia vatuafit fo a 520 m multi anan DCC kar-
KyungHo River 1st Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2010	Seismic	Seismic retrofit fo a 530 m multi-span PSC box
	Hamyang	Total: 8			girder bridge using dampers.
		$750 \text{ kN} \pm 200 \text{mm} \text{ stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Parras Middle School	USA,	Taylor Viscous Dampers	2010	Seismic	New school athletic complex uses dampers in
	Redondo Beach, CA	Total: 8			chevron braces to dissipate seismic energy.
		$160 \text{ kN} \pm 75 \text{mm stroke}$			
Port Mann Bridge	CANADA,	Taylor Viscous Dampers	2010	Seismic	New cable-stayed bridge uses Fluid Viscous
	Coquitlam, BC	Total: 146			Dampers in approach spans between peirs and deck
		2200 kN \pm 50mm stroke			to dissipate seismic energy. This replacement
		$2200 \text{ kN} \pm 75 \text{mm stroke}$			bridge (replaces aging, tied-arch bridge) boast a
		$2600 \text{ kN} \pm 418 \text{mm stroke}$			470 meter main span, the 2nd longest in the
		$2700 \text{ kN} \pm 50 \text{mm stroke}$			Western Hemisphere, and a 50 meter wide deck -
		$3200 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			the widest of any cable stayed bridge in the world.
		3500 kN ± 160mm stroke			
Red Hill Creek Pedestrian Bridge	CANADA,	Taylor Viscous Dampers	2010	Seismic	Located near Lake Ontario and over the QEW and
	Hamilton, ON	Total: 10			an open creek bed, the TMD's were designed to
		$1 \text{ kN} \pm 50 \text{mm stroke}$			control the effects of wind on the Pedestrian
					Bridge.
Semi Bridge	SOUTH KOREA,	Taylor Viscous Dampers	2010	Seismic	Seismic retrofit of a 180 m multi-span PSC beam
	Jinju	Total: 6			bridge using dampers.
		750 kN ± 100mm stroke			
Xinjiang Guozili Bridge	CHINA	Taylor Viscous Dampers	2010	Seismic	
		Total: 8			
		1061 kN ± 400mm stroke			
TONG E I HA DA	TO A TAXY A D.Y.	1191 kN ± 500mm stroke	2010	g	
TSMC Fab #14, P4	TAIWAN,	Taylor Viscous Dampers	2010	Seismic	New semiconductor fabrication plant uses dampers
	Hsin Chu City	Total: 20			to dissipate seismic energy and reduce vibrations in
L' C	CHINA I ::	2000 kN ± 75mm stroke	2010	XX/2 J	earthquake.
Linyi Culture Square	CHINA, Linyi	Taylor Viscous Dampers	2010	Wind	New construction 20 Tuned Mass Dampers for the
		Total: 40			reduction of wind vibrations in large span roof
Shara Da En Caratanatian En Va	Taiman/Tainai	TMD Systems	2010	Caiamia	truss section.
Sheng De Fu Construction: Fu-Yu	Taiwan/Taipei	Taylor Viscous Dampers	2010	Seismic	New RC 15-story residential project uses dampers
		Total: 4			to dissipate earthquake energy.
Taoto Tapyuna 18th	Taiwan/Taoyuan	150 kN ± 25mm stroke Taylor Viscous Dampers	2010	Seismic	New 19-story RC residential prjoect uses dampers
Taoto Tapyuna Toth	Taiwan/Taoyuan	Total: 56	2010	Seisilic	1
		500 kN ± 75mm stroke			to dissipate energy and reduce earthquake
Hong-Chiao Yong-Kang	Taiwan/Taipei	Taylor Viscous Dampers	2010	Seismic	vibrations. New RC residential prjoect uses dampers to
Tong-Cillad Tong-Ixang	1 aiwan/ 1 aipei	Total: 8	2010	Seisinic	dissipate energy.
		500 kN ± 75mm stroke			uissipate energy.
Barwon Heads Bridge	Australia/Victoria	Taylor Fluid Dampers	2010	Seismic	Lock-up devices used to limit bridge deck
Dai won iicaus Biiuge	rustiana/ victoria	Total: 10	2010	Seisinic	displacements for a new highway bridge with
		405 kN ± 50mm stroke			timber piers.
		1403 KM = 30HHH SH OKE			jumper piers.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Tremieng Waar Driuge	Cillia	Total: 48	2012	Seisinic	
		2000 kN ± 450mm stroke			
Meguro Gajoen Extension Project	Japan/Tokyo	Taylor Fluid Dampers	2010	Seismic	New construction, 16-story steel and concrete
	Јарап/Токуо	Total: 72	2010	Seisilic	frame office/hotel/parking structure uses dampers
		1000 kN ± 50mm stroke			
					to dissipate earthquake energy.
		1500 kN ± 50mm stroke			
Kasumigaseki 3 Chome Project	Japan/Tokyo	2000 kN ± 50mm stroke Taylor Fluid Dampers	2010	Seismic	New construction, 17-story steel frame
Kasumigaseki 5 Chome Froject	Јарап/Токуо	Total: 12	2010	Seisilic	· · · · · · · · · · · · · · · · · · ·
		1000 kN ± 50mm stroke			office/parking structure uses dampers to dissipate earthquake energy.
					earthquake energy.
Vindom ling Ding Decidat	Taiwan/Taipei	1500 kN ± 50mm stroke Taylor Viscous Dampers	2009	Seismic	Now 25 story SDC residential present uses a
Kindom Jing-Ping Project	Taiwan/Taipei	Total: 22	2009	Seisinic	New 25-story SRC residential project, uses a combination of viscous dampers and buckling
		1000 kN ± 100mm stroke			restrained braces to reduce vibrations caused by
		1000 KN ± 100mm stroke			earthquake.
250 West 55th Street	USA/New York, NY	Taylor Fluid Dampers	2009	Wind	Custom high capacity metal bellows dampers used
250 West 55th Street	OSA/INCW TOTK, INT	Total: 7	2007	Willu	as part of an outrigger system in a new 39-story all
		1690 kN ± 100mm stroke			glass exterior office building to reduce wind
		1090 KIN ± 100mm stroke			motion.
WRCT Project	USA/Boone County,	Taylor Fluid Dampers	2009	Seismic	Devices used to provide dynamic force transfer
WRETTTOJECT	KY	Total: 2	2007	Scisinic	across thermal expansion joint of the supporting
	IX I	750 kN ± 100mm stroke			structure for this elevated Western Regional
		750 KIV = 100mm stroke			Conveyance Tunnel.
US Dept. of Interior Bureau of	USA/Provo, UT	Taylor Fluid Dampers	2009	Seismic	Retrofit of an office complex. Dampers and lock-up
Reclamation - Utah Projects Office		Total: 9		20111110	devices used in diagonal braces to dissipate
Complex		445 kN ± 100mm stroke			earthquake energy and reduce displacement.
Complex		245 kN ± 75mm stroke			car inquake energy and reduce displacement
LAX Theme Building	USA/Los Angeles, CA	Taylor Fluid Dampers	2009	Seismic	Retrofit of an elevated restaurant supported by
	g , .	Total: 8			four curved legs. Dampers used as part of a mass
		555 kN ± 150mm stroke			damper system to control movement of the mass
					block during an earthquake.
100 International Drive	USA/East Hartford,	Taylor Fluid Dampers	2009	Seismic	Single-story steel framed warehouse building with
- Steel Warehouse	CT	Total: 2			plan dimensions of 676' x 450'. Dampers transfer
		330 kN ± 100mm stroke			loads across expansion joint at diaphragm chord
					trusses.
T.F. Green Airport Parking Garage	USA/Providence, RI	Taylor Fluid Dampers	2009	Seismic	Located in Warwick, near Providence, RI, this
	ĺ	Total: 64			airport parking garage uses dampers to transfer
		135 kN ± 32mm stroke			loads across expansion joints, thereby reducing the
		270 kN ± 75mm stroke			large seismic expansion joint/gap requirements.
Aircraft Hanger	USA/Hawthorne, CA	Taylor Fluid Dampers	2009	Seismic	Voluntary seismic upgrade of an aircraft hangar
	Shiffian thorne, CA	Total: 160	2007	Scisinic	building using dampers in double-diagonal braces
		900 kN ± 100mm stroke			to provide seismic energy dissipation.
<u></u>	ļ	1200 KM = 100HHH SH OKE			ito brovide seisinie energy dissipation.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48 2000 kN ± 450mm stroke	2012	Seismic	
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 Total: 44 1000 kN ± 100mm stroke	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 Total: 8 1500 kN ± 610mm stroke	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 cirteria 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 Treasue, uses dampers in special floor isolation system to dissipate seismic energy.
Dubai Racetrack Stadium	United Arab Emirates/Dubai	Taylor Fluid Dampers Total: 108 885 kN ± 50mm stroke 1280 kN ± 50mm stroke 1370 kN ± 50mm stroke	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 Total: 4 1750 kN ± 250mm stroke	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 Total: 4 1400 kN ± 500mm stroke	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 Total: 8 1800 kN ± 550mm stroke	2009	Seismic	Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.
Xinjiang Guozili Bridge	China/Xinjiang	Taylor Fluid Dampers Total: 8 1100 kN ± 400mm stroke 1200 kN ± 500mm stroke	2009	Seismic	Cable-stayed bridge uses dampers between bridge deck and piers to control movements caused by earthquakes.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Transfer of the second of the		Total: 48		201311110	
		2000 kN ± 450mm stroke			
Nihonbashi Nomura Project	Japan/Tokyo	Taylor Fluid Dampers	2009	Seismic	New construction, 21-story steel frame
1 (monousmi i (omara i rojece	oupum rongo	Total: 52	2009	Scisinic	office/commerce facility/parking uses dampers to
		1100 kN ± 50mm stroke			dissipate earthquake energy.
		1500 kN ± 50mm stroke			uissipate cartiquake energy.
		2000 kN ± 50mm stroke			
Hydra Waves	Mexico/Mazatlan	Taylor Fluid Dampers	2009	Seismic	New structure use dampers to absorb earthquake
	112011100,11120111011	Total: 18		201311110	energy and reduce deflection and stress.
		680 kN ± 50mm stroke			energy and reduce deficetion and stress.
Tauranga Harbour Link Bridge	New	Taylor Fluid Dampers	2009	Seismic	New four lane highway bridge use Lock-Up Devices
Tuurungu Hur vour Emik Erruge	Zealand/Tauranga	Total: 21	1	Scisinic	with force limiting devices to control bridge deck
	Zeulunu, 1 uul ungu	980 kN ± 175mm stroke			movement during seismic events.
		1470 kN ± 175mm stroke			movement during seismic events.
		1750 kN ± 225mm stroke			
ASE I – Mihai Eminescu Project	Romania/Bucharest	Taylor Fluid Dampers	2009	Seismic	Retrofit of a historic building with dampers in
		Total: 142			diagonal braces to provide seismic energy
		$1000 \text{ kN} \pm 100 \text{mm stroke}$			dissipation.
		100 kN ± 100mm stroke			uissipution
TSMC Fab #12 P5	Taiwan/Hsin Chu City		2009	Seismic	Retrofit of a semiconductor processing plant uses
	Ĭ	Total: 6			dampers to dissipate seismic energy and micro-
		$2000 \text{ kN} \pm 75 \text{mm stroke}$			vibrations.
Uni-President B8 Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Known as Taipei Hsin-Yi Project, this new 22-story
Ů	•	Total: 336			reinforced concrete building uses dampers in
		$600 \text{ kN} \pm 75 \text{mm stroke}$			chevron braces to dissipate seismic energy.
FDS Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Dampers installed in RC supporting wall in a new
, and the second		Total: 6			reinforced concrete building.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Farglory H61 Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Dampers installed in RC supporting wall in a new
	_	Total: 12			reinforced concrete building.
		$500 \text{ kN} \pm 75 \text{mm stroke}$			
Farglory H63 Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Dampers used in chevron bracing elements in a
		Total: 52			new 15-story reinforced concrete building.
		500 kN \pm 75mm stroke			
Farglory H65 Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Dampers used in chevron bracing elements in a
		Total: 46			new 14-story reinforced concrete building.
		500kN ± 75mm stroke			
Farglory H69	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	Dampers installed in RC supporting wall in a new
		Total: 54			14-story reinforced concrete building.
		500 kN ± 75mm stroke			
Farglory H70 Project	Taiwan/Taipei	Taylor Fluid Dampers	2009	Seismic	New 13-story steel reinforced concrete residential
		Total: 20			building use dampers in chevron braces to dissipate
		$500 \text{ kN} \pm 75 \text{mm stroke}$			seismic energy.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
Ruentex Wan-Shi Project	Taiwan/Taipei	2000 kN ± 450mm stroke 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 Sinca 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	South 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	South 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	South 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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Namhae Grand Bridge	South Korea/Namhae	Taylor Fluid Dampers	2009	Seismic	Seismic retrofit of a 660 m (main span 404m)
		Total: 12			suspension bridge using dampers.
		$500 \text{ kN} \pm 200 \text{mm} \text{ stroke}$			
Eommi 2nd Bridge	South Korea/Gwangju	Taylor Fluid Dampers	2009	Seismic	Seismic retrofit of a 135 m multi-span PSC box
		Total: 4			girder bridge using dampers.
		$400 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Kimpo Airport Phase II	South Korea/Seoul	Taylor Fluid Dampers	2009	Seismic	Retrofit of existing terminal building. Dampers
	South Korea/	Total: 8			installed across expansion joints of 3-story concrete
	Hongsung	500 kN ± 100mm stroke			frame building to dissipate seismic energy.
Hongsungwasun Bridge	South	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 300 m multi-span steel box
	Korea/Hongsung	Total: 4			girder and PSC beam bridge using dampers.
		850 kN ± 120mm stroke			
Sojung Grand Bridge	South Korea/Yoengi	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 500 m multi-span steel box
		Total: 6			girder bridge using dampers.
		850 kN ± 100mm stroke			
Watan Bridge	South	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 380 m multi-span steel box
	Korea/Yeonggwang	Total: 4			girder bridge using dampers.
		850 kN ± 100mm stroke			
Namgang Bridge	South	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 240 m multi-span steel box
	Korea/Hamyang	Total: 2			girder bridge using dampers.
		850 kN ± 100mm stroke			
Ansungchun Bridge	South Korea/Ansung	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 450 m multi-span PSC beam
		Total: 10			bridge using dampers.
		1000 kN ± 100mm stroke			
California Dept. of Transportation -	USA/Oakland, CA	Taylor Fluid Dampers	2008	Seismic	Retrofit of 15-story steel moment frame structure
District 4 Headquarters		Total: 231			built in 1991. Dampers used in diagonal braces to
		1000 kN ± 125mm stroke			dissipate seismic energy.
		2000 kN ± 125mm stroke			
		3000 kN ± 125mm stroke			
Atlanta Botanical Garden	USA/Atlanta, GA	Taylor Fluid Dampers	2008	Pedestrian	Custom pre-tensioned spring loaded dampers used
		Total: 4			to control pedestrian induced vibrations in an
		$11 \text{ kN} \pm 75 \text{mm stroke}$			elevated walkway located in the tree canopy.
Citycenter Project Pedestrian Bridge	USA/Las Vegas, NV	Taylor Fluid Dampers	2008	Pedestrian	Group of three new pedestrian bridges utilize
		Total: 6 TMD Systems			Taylor tuned mass dampers to reduce pedestrian-
					induced vibrations.
Roosevelt Island Lift Bridge	USA/New York, NY	Taylor Fluid Dampers	2008	Kinetic Energy	Retrofit of a vertical lift bridge for protection from
		Total: 8		of Moving	runaway motors and brake failures.
		267 kN 560mm stroke		Bridge	

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48 2000 kN ± 450mm stroke	2012	Seismic	
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.
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	Steel Mill Project	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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Thermeng waxi bridge	Cillia	Total: 48	2012	Seisinic	
Mi Turneformer Station Torres	I/Cif	2000 kN ± 450mm stroke	2000	Caiannia	Colombia maturafit of minulana atation ataul toman
Mizunami Transformer Station Tower	Japan/Giiu	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of wireless station steel tower.
		Total: 4			Dampers used in a TMD system to dissipate seismic
		16.5 kN ± 200mm stroke			energy. All stainless steel dampers.
Ooigawa Transformer Station Tower	Japan/Shizuoka	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of wireless station steel tower.
		Total: 4			Dampers used in a TMD system to dissipate seismic
		16.5 kN ± 200mm stroke			energy. All stainless steel dampers.
Taketoyo Thermal Power Station	Japan/Aichi	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of wireless station steel tower.
Tower		Total: 4			Dampers used in a TMD system to dissipate seismic
		16.5 kN ± 200mm stroke			energy. All stainless steel dampers.
Kimpo Airport Phase I	Korea/Seoul	Taylor Fluid Dampers	2008	Seismic	Retrofit of an existing building. Dampers installed
		Total: 4			across expansion joints of 3-story concrete frame
		$500 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			building to dissipate seismic energy for Korea
					Airports Corporation.
Gang Dong Grand Bridge	Korea/Seoul	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 1126 meter multi-span PSC
		Total: 12			box girder bridge with dampers the Korea
		$2000 \text{ kN} \pm 300 \text{mm} \text{ stroke}$			Expressway Corporation.
Kyung Ho 2nd Bridge	Korea/Sancheong	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 340 meter multi-span PSC Box
		Total: 4			bridge with dampers for the Korea Expressway
		$750 \text{ kN} \pm 250 \text{mm} \text{ stroke}$			Corporation.
Kyung Ho 6th Bridge	Korea/Sancheong	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 630 meter multi-span PSC Box
	and the sum of the sum	Total: 8		20131110	bridge with dampers for the Korea Expressway
		1500 kN ± 200mm stroke			Corporation.
Hang Jyung Bridge	Korea/Suncheon	Taylor Fluid Dampers	2008	Seismic	Seismic retrofit of a 630 meter multi-span PSC Box
liang by ung bridge	Troi ca/Suncheon	Total: 10	2000	Scisinic	bridge with dampers for the Korea Expressway
		1500 kN ± 250mm stroke			Corporation.
Marena Project	Mexico/Acapulco		2008	Seismic	New resort/hotel/condominium complex uses
Marena Froject	Mexico/Acapuico	Taylor Fluid Dampers	2008	Seisinic	=
		Total: 52			dampers to dissipate seismic energy.
		600 kN ± 50mm stroke			
	D : /D 1 /	570 kN ± 50mm stroke	2000	<u> </u>	D 4 64 6 1 111 41 00 1 4 1
Academy for Economical Studies II	Romania/Bucharest	Taylor Fluid Dampers	2008	Seismic	Retrofit of a building with 80 isolation bearings
Project		Total: 18			and 18 dampers.
		1500 kN ± 500mm stroke			
Academy for Economical Studies -	Romania/Bucharest	Taylor Fluid Dampers	2008	Seismic	Retrofit of a building with dampers located at the
Sports Complex		Total: 6			roof to dissipate earthquake energy.
		$300 \text{ kN} \pm 75 \text{mm stroke}$			
TSMC Fab #12 P4	Taiwan/Hsin Chu City	1 2 2	2008	Seismic	Retrofit of a semiconductor processing plant uses
		Total: 18			dampers to dissipate seismic energy and micro-
		2000 kN ± 75mm stroke			vibrations.
Criminal Investigation Bureau	Taiwan/Taichung	Taylor Fluid Dampers	2008	Seismic	15-story steel braced frame building uses a
Taichung		Total: 4			combination of BRBs and dampers in diagonal
		$392 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			braces for seismic energy dissipation.
		$784 \text{ kN} \pm 75 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Hung-Feng Nei-Hu Residence	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 5-story residential building uses dampers in
		Total: 12			reinforced concrete supporting walls to dissipate
		$500 \text{ kN} \pm 75 \text{mm stroke}$			seismic energy
Fu-Shi Tu-Cheng Project	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 12-story residential building uses dampers in
		Total: 24			reinforced concrete supporting walls to dissipate
		500 kN ± 75mm stroke			seismic energy.
Ya-Ting Chung-Ho Project	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 14-story residential building uses dampers in
		Total: 16			reinforced concrete supporting walls to dissipate
		$500 \text{ kN} \pm 75 \text{mm stroke}$			seismic energy.
Mei-Feng Residential Building	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 16- story steel residential building uses
		Total: 32			dampers in double A-shape frames to dissipate
		1000 kN ± 60mm stroke			seismic energy.
Farglory Fortuna H62	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	Two new 16-story steel reinforced concrete
		Total: 80			residential building use dampers in double A-shape
		$500 \text{ kN} \pm 75 \text{mm stroke}$			frames to dissipate seismic energy.
Farglory Twin-Towers H40	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	Two new 25-story steel reinforced concrete
		Total: 162			residential building use dampers in double A-shape
		$500 \text{ kN} \pm 60 \text{mm} \text{ stroke}$			frames to dissipate seismic energy.
		$800 \text{ kN} \pm 75 \text{mm stroke}$			
Hung Poo Construction/ KIMZO New	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 19-story residential building uses dampers in
Trump		Total: 24			reinforced concrete supporting walls to dissipate
		1000 kN ± 100mm stroke			seismic energy.
Kindom Kui-Lin Project	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 19-story steel reinforced concrete residential
		Total: 24			building with dampers to dissipation seismic
		1000 kN ± 100mm stroke			energy.
Uni-President Taipei Transfer Post	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 31-story steel structure with dampers to
(A3)		Total: 124			improve structural performances. Dampers are
		$600 \text{ kN} \pm 75 \text{mm stroke}$			installed in diagonal braces and A-shape
		$600 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			supporting frames.
Kelti Hsin-Yi Building	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	New 14-story steel office building in Taipei Project.
		Total: 80			Viscous dampers are used for energy dissipation.
		$1400 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			Dampers are installed in diagonal braces.
		1500 kN ± 100mm stroke			
Chiyoda Project	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	16-story reinforced concrete moment frame
		Total: 16			building uses dampers in double A-shape frames to
		$980 \text{ kN} \pm 60 \text{mm} \text{ stroke}$			dissipate seismic energy.
Twin Oak Garden Project	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	16-story reinforced concrete moment frame
		Total: 32			building uses dampers in double A-shape frames to
		$980 \text{ kN} \pm 60 \text{mm} \text{ stroke}$			dissipate seismic energy.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Tremeng Waxi Briage	Cilina	Total: 48	2012	Scisinic	
		2000 kN ± 450mm stroke			
Far Glory Twin Towers	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	Two 24-story residential buildings use dampers in
Tai Giory I will Towers	Taiwan/Taipei	Total: 162	2000	Scisinic	double A-shape frames to dissipate seismic energy.
		490 kN ± 60mm stroke			double 11-shape frames to dissipate seisine energy.
		785 kN ± 75mm stroke			
Mei-Feng Residential Building	Taiwan/Taipei	Taylor Fluid Dampers	2008	Seismic	19-story residential building uses dampers in A-
and the state of t		Total: 32	2000	201311110	shape frames to dissipate seismic energy.
		980 kN ± 60mm stroke			shape frames to dissipate seismic energy.
Mills Peninsula Hospital	USA/Burlingame, CA	Taylor Fluid Dampers	2007-2008	Seismic	450,000 square foot replacement hospital for
		Total: 32			Peninsula Medical Center with 243 beds. Dampers
		1225 kN ± 762mm stroke			used with base isolation system.
Cumberland River Pedestrian Bridge	USA/Nashville, TN	Taylor Fluid Dampers	2007	Pedestrian	Five TMD Systems used to control lateral and
		Total: 5			vertical vibrations caused by pedestrian traffic.
		TMD Systems			V 1
KDDI Tama Fourth Network Center	Japan/Tokyo	Taylor Fluid Dampers	2007	Seismic	6-story, 24,000 square meter telephone network
1st Station		Total: 28			center is base isolated with dampers to reduce
		$1450 \text{ kN} \pm 610 \text{mm} \text{ stroke}$			seismic movement and provide energy dissipation.
Tres Mares Residences	Mexico/Puerto	Taylor Fluid Dampers	2007	Seismic	27-story, 40,200 square meter condominium
	Vallarta	Total: 30			building with concrete columns and steel beams.
		$900 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			Dampers used in diagonal braces for seismic energy
		1450 kN ± 100mm stroke			dissipation.
TSMC Fab #14	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	Retrofit of a semiconductor processing plant uses
		Total: 20			damper to dissipate seismic energy and micro-
		$2000 \text{ kN} \pm 75 \text{mm stroke}$			vibrations.
Dong-Teng Project	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	15-story steel braced frame residential building
		Total: 32			uses dampers in A-frames to dissipate seismic
		490 kN ± 75mm stroke			energy.
Jin Nam 3rd Bridge	Korea/Mungyeong	Taylor Fluid Dampers	2007	Seismic	Seismic retrofit of a 680 meter multi-span steel box
		Total: 10			girder and PSC Beam bridge with dampers for the
		850 kN ± 100mm stroke			Ministry of Land Transport and Maritime Affairs.
New Yang Soo Bridge	Korea/Yangpyeong	Taylor Fluid Dampers	2007	Seismic	Seismic retrofit of a 2180 meter multi-span steel
		Total: 34			box girder and PSC Beam bridge with dampers for
		$2000 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			the Ministry of Land Transport and Maritime
		$850 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			Affairs.
Gang Hwa Grand Bridge	Korea/Ganghwa	Taylor Fluid Dampers	2007	Seismic	Seismic retrofit of a 780 meter multi-span steel box
		Total: 8			girder bridge with dampers for the Ministry of
		$2000 \text{ kN} \pm 120 \text{mm} \text{ stroke}$			Land Transport and Maritime Affairs.
Clerkenwell Road Bridge	UK/London	Taylor Fluid Dampers	2007	Seismic	Strengthening Project – Lock-up devices used to
		Total: 2			control seismic movement while allowing free
		582 kN ± 100mm stroke			thermal movement.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Coker Structure	Venezuela/Barcelona	Taylor Fluid Dampers	2007	Seismic	Dampers used to reduce vibrations caused by a
		Total: 26			chemical reaction in a large vessel.
		$50 \text{ kN} \pm 150 \text{mm} \text{ stroke}$			
131 South Rodeo Drive	USA/Beverly Hills,	Taylor Fluid Dampers	2007	Seismic	Voluntary seismic retrofit uses dampers in diagonal
	CA	Total: 18			bracing elements for seismic energy dissipation.
		2000 kN ±75mm stroke			
Don Pedro High School	USA/Groveland, CA	Taylor Fluid Dampers	2007	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			
Tioga High School	USA/Groveland, CA	Taylor Fluid Dampers	2007	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			
Sutter Gould Medical Office Building	USA/Modesto, CA	Taylor Fluid Dampers	2007	Seismic	4-story, 13,400 square meter medical office
		Total: 40			building. Steel construction with dampers in
		$712 \text{ kN} \pm 75 \text{mm stroke}$			diagonal bracing elements for seismic energy
					dissipation.
Beijing 7 Star Morgan Plaza Hotel	China/Beijing	Taylor Fluid Dampers	2007	Seismic &	New 40-story building uses a combination of fluid
		Total: 108		Wind	dampers and fluid visco-elastic dampers to reduce
		$1000 \text{ kN} \pm 40 \text{mm stroke}$			seismic and wind vibrations.
		1000 kN ± 100mm stroke			
		1500 kN ± 150mm stroke			
Stamford Building	New	Taylor Fluid Dampers	2007	Wind	Residential tower uses dampers in a three-mass
_	Zealand/Auckland	Total: 12			TMD system to reduce motion caused by wind for
		$25 \text{ kN} \pm 150 \text{mm} \text{ stroke}$			comfort level improvements.
Loma Linda University Medical	USA/Loma Linda, CA	Taylor Fluid Dampers	2007	Seismic	Seismic upgrade of hospital structure uses long
Center		Total: 10			fluid viscous dampers in diagonal braces of
		890 kN ± 100mm stroke			Buildings A&C.
Whalley Reservoir	Canada/Surrey, BC	Taylor Fluid Dampers	2007	Seismic	Dampers surround this in-ground reservoir to
		Total: 17			control seismic drift of concrete lid.
		1000 kN ± 125mm stroke			
Jiangyin Bridge	China/Jiangsu	Taylor Fluid Dampers	2007	Seismic	World's 5th longest suspension bridge uses
	Province	Total: 4			dampers mounted vertically at expansion joints to
		1000 kN ± 1000mm stroke			control traffic vibrations.
Xihoumen Bridge	China/Zhejiang	Taylor Fluid Dampers	2007	Seismic	World's 2nd longest suspension bridge located at
	Province	Total: 4			Zhoushan Island uses dampers in the longitudinal
		1000 kN ± 1100mm stroke			direction to dissipate seismic energy.
Cal Poly Pomona Library	USA/Pomona, CA	Taylor Fluid Dampers	2007	Seismic	Seismic retrofit of college library building uses long
1		Total: 12			fluid viscous dampers in diagonal braces.
		1335 kN ± 178mm stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Doutor Coffee Nagoya Project	Japan/Nagoya City	Taylor Fluid Dampers	2007	Seismic	New 9-story office building (2, 096 square meters)
		Total: 2			uses dampers for seismic energy dissipation.
		$3000 \text{ kN} \pm 50 \text{mm stroke}$			
Saitama Citizen Medical Center	Japan/Saitama City	Taylor Fluid Dampers	2007	Seismic	New 6-story hospital (29, 320 square meters) uses
		Total: 12			dampers with base isolation system for seismic
		1450 kN ± 610mm stroke			energy dissipation.
Minatoku Office Building	Japan/Tokyo-	Taylor Fluid Dampers	2007		New 13-story office building (17, 200 square
(Mita 3 Chome project)	Minato-ku	Total: 32			meters) uses dampers in diagonal braces for seismic
		$785 \text{ kN} \pm 100 \text{mm stroke}$			energy dissipation.
Starwood Hotel - Sage Hospitality	USA/Portland, OR	Taylor Fluid Dampers	2007	Seismic	Remodel and seismic retrofit/upgrade of Meir and
		Total: 212			Frank Building, floors 6-14. Project uses dampers
		$445 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			in chevron braces.
		$670 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
		890 kN ± 100mm stroke			
Leona Drive Residence	USA/Beverly Hills,	Taylor Fluid Dampers	2007	Floor	New residence with cantilevers that requires
	CA	Total: 3		Vibrations	damping for comfort level improvements from floor
		$22 \text{ kN} \pm 25 \text{mm stroke}$			vibrations.
Shen-Mao Garter Castle Residential	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New 14-story R/C residential building uses 32
Building		Total: 32			dampers in R/C supporting walls and bracing for
		$1000 \text{ kN} \pm 50 \text{mm stroke}$			energy dissipation.
Nordstrom – Santa Barbara Paseo	USA/Santa Barbara,	Taylor Fluid Dampers	2007	Seismic	Store remodel includes structural seismic upgrade
Nuevo Store # 344	CA	Total: 38			with dampers used in chevron braces for seismic
		$890 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			energy dissipation.
		$670 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Abe Transformer Station Tower	Japan/Shizuoka	Taylor Fluid Dampers	2007	Seismic	Seismic retrofit of wireless station steel tower.
	Prefecture	Total: 4			Dampers used in TMD system to dissipate seismic
		16 kN + 200mm stroke			energy.
Seattle Central Link Light Rail	USA/Seattle, WA	Taylor Fluid Dampers	2007	Seismic	1.7 mile Extension of light rail line to SEA-TAC
		Total: 6			Int'l airport, uses shock transmission units to
		$2000 \text{ kN} \pm 76 \text{mm stroke}$			control seismic movement/allow free thermal
		2558 kN \pm 76mm stroke			movement.
Port of Seattle South 160th St. Loop	USA/Seattle, WA	Taylor Fluid Dampers	2007	Seismic	New light rail line at SEA-TAC Int'l airport
Ramp Light Rail		Total: 24			utilizes shock transmission units to control seismic
		$1000 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			movement while allowing free thermal movement.
		$2000 \text{ kN} \pm 76 \text{mm stroke}$			
		2558 kN \pm 76mm stroke			
Lian-Yun Tai-An Residence	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New 12-story R/C residential building uses 6
		Total: 6			dampers in first floor to dissipate seismic energy.
		$1000 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Huaku Wen-De Residence	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New 14-story R/C residential building uses 24
		Total: 24			dampers for seismic energy dissipation.
		$500 \text{ kN} \pm 60 \text{mm} \text{ stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		1 0tal: 48 2000 kN ± 450mm stroke			
Huaku Ming-Chiuan Residence	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New 15 story R/C residential building uses 48
Truaku Ming-Chiuan Residence	Taiwan/Taipei	Total: 48	2007		dampers for seismic energy dissipation.
		1000 kN ± 60mm stroke			dampers for seismic energy dissipation.
Kindom Millennium Celebrity	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New 27-story steel/concrete residential building
Kindom Mineman Celebrity	raiwan/raiper	Total: 12	2007		located on soft soil of old volcano valley uses
		500 kN ± 50mm stroke			dampers for earthquake energy dissipation.
SR 62 Bridge over Wabash River	USA/Posey County,	Taylor Fluid Dampers	2007	Seismic	Indiana DOT Bridge over Wabash River to White
SK 02 Bridge over Wabash Kiver	IN	Total: 80	2007		County, Illinois uses Lock-up Devices to control
	111	290 kN ± 100mm stroke			seismic movement while allowing free thermal
		470 kN ± 100mm stroke			movement.
Pomeroy-Mason Bridge	USA/Grove City, OH	Taylor Fluid Dampers	2007	Wind/Rain	New cable-stayed bridge. Dampers attached to
		Total: 96			cable stays to reduce motion induced by a
		23 kN ± 75mm stroke			combination of wind and rain.
Sutong Changjiang River Bridge	China/Shanghai	Taylor Fluid Dampers	2007		World's longest cable-stayed bridge uses special
	· · · · · · · · · · · · · · · · · · ·	Total: 8			spring dampers on the main span to control
		$6580 \text{ kN} \pm 850 \text{mm} \text{ stroke}$			seismic/wind movements.
Longhua Songhua Bridge	China/Songyvan, Jilin	Taylor Fluid Dampers	2007	Seismic	New 7-span reinforced concrete continuous beam
	Province	Total: 16			bridge uses Lock-Up Devices to control seismic
		1800 kN ± 140mm stroke			movement while allowing free thermal movement.
Rainbow Bridge (Nei-Hu Suspension	Taiwan/Taipei	Taylor Fluid Dampers	2007	Seismic	New steel arch-suspension bridge uses dampers for
Bridge)		Total: 4			earthquake energy dissipation.
		$500 \text{ kN} \pm 100 \text{mm stroke}$			
Nueva Palmira Wharf	Uruguay/Montevideo	Taylor Fluid Dampers	2007	Wind &	New multi-modal harbor port terminal. Dampers
		Total: 6		Berthing Loads	used for wind/impact load protection of wharf
		900 kN ± 100mm stroke			structure with pile foundations.
Tan Zu/Tzu Chi Hospital	Taiwan/Taichung City	Taylor Fluid Dampers	2007		New construction of a 14-story, 145k m2 hospital.
		Total: 88			Dampers used to add energy dissipation to the base
		1716 kN ± 750mm stroke			isolation system.
Roslyn Viaduct Bridge Replacement	USA/Roslyn, NY	Taylor Fluid Dampers	2007		Replacement segmental concrete overpass structure
for Route 25A over Hempstead		Total: 8			uses fluid viscous dampers for earthquake energy
Harbor		2000 kN ± 280mm stroke			dissipation.
Seattle Central Link Light Rail Section	USA/Seattle, WA	Taylor Fluid Dampers	2007		New light rail line utilizes shock transmission units
C755		Total: 34			to control seismic movement while allowing free
		1000 kN ± 100mm stroke			thermal movement.
		2000 kN ± 76mm stroke			
		$2558 \text{ kN} \pm 76 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Macy's Store - Meier & Frank	USA/Portland, OR	Taylor Fluid Dampers	2006-2007	Seismic	Remodel and seismic retrofit/upgrade of Meier and
Building Remodel		Total: 160			Frank Building floors 1-5. Project uses dampers in
		890 kN ± 100mm stroke			chevron braces.
		$1112 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
		1335 kN ± 100mm stroke			
		1780 kN ± 100mm stroke			
Naval Hospital Bremerton	USA/Bremerton, WA	Taylor Fluid Dampers	2006-2007	Seismic	Seismic upgrade of 1960's era, 9-story, 2,500
		Total: 88			square meter hospital utilizes dampers in diagonal
		890 kN ± 100mm stroke			braces to reduce drift and dissipate seismic energy.
JR Tokai Shin Yokohama Station	Japan/Tokyo	Taylor Fluid Dampers	2006-2007	Seismic	New 19-story 100,000 square meter steel train
		Total: 377			station/office/hotel building uses dampers in
		$500 \text{ kN} \pm 50 \text{mm stroke}$			diagonal braces to dissipate seismic energy.
		$1000 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			
		1500 kN ± 50mm stroke			
Rock Church (Nehemiah Project)	USA/San Diego, CA	Taylor Fluid Dampers	2006	Pedestrian	Two 10,000 Lbs TMD systems used to dampen
		Total: 2		Dancing	vibrations on the main cantilevered balcony in the
		TMD Systems		Vibration	sanctuary.
Guangzhou Stadium	China/Yixing	Taylor Fluid Dampers	2006	Seismic	New Stadium uses dampers in stadium
		Total: 12			substructure framing to provide seismic energy
		1500 kN ± 100mm stroke			dissipation.
Nordstrom – Tyler Mall Store #35	USA/Riverside, CA	Taylor Fluid Dampers	2006	Seismic	Store remodel includes structural seismic upgrade
		Total: 32			with dampers used in chevron braces for seismic
		980 kN ± 100mm stroke			energy dissipation.
Nordstrom – South Bay Galleria	USA/Redondo Beach,	Taylor Fluid Dampers	2006	Seismic	Store remodel includes structural seismic upgrade
	CA	Total: 16			with dampers used in chevron braces for seismic
		890 kN ± 15mm stroke			energy dissipation.
Los Angeles California Temple	USA/Los Angeles, CA		2006	Seismic	Voluntary Seismic upgrade of church steeple
		Total: 9			(spire) with dampers used in special apparatus for
		360 kN +175/-25mm stroke			seismic energy dissipation.
Jorge Chavez International Airport	Peru/Lima	Taylor Fluid Dampers	2006	Seismic	Retrofit of a 10-story R/C central tower structure.
Central Tower		Total: 42			Dampers are used in chevron braces to provide
		490 kN ± 100mm stroke			seismic energy dissipation.
		712 kN ± 100mm stroke			
Deung Sun Bridge	South Korea/	Taylor Fluid Dampers	2006	Seismic	Seismic retrofit of a 2000 meter multi-span steel
	Chuncheon	Total: 8			girder bridge with dampers for the Ministry of
		1000 kN ± 100mm stroke			Construction & Transportation.
ShinSang # 1 Bridge	South Korea/Daejeon	Taylor Fluid Dampers	2006	Seismic	Seismic retrofit of a 525 meter multi-span steel
		Total: 8			girder bridge with dampers for the Korea Highway
		1000 kN ± 250mm stroke			Corporation.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Lee Ho Grand Bridge	South Korea/Yeoju	Taylor Fluid Dampers	2006	Seismic	Seismic retrofit of a 910 meter multi-span steel
		Total: 4			girder bridge with dampers for the Ministry of
		1000 kN ± 310mm stroke			Construction & Transportation.
TSMC FAB #7	Taiwan/Hsin Chu City	Taylor Fluid Dampers	2006	Seismic	Retrofit of a semiconductor fabrication plant uses
		Total: 16			dampers to dissipate seismic energy and micro-
		1000 kN ± 100mm stroke			vibrations.
Pamunkey River Bascule Bridge	USA/West Point, VA	Taylor Fluid Dampers	2006	Kinetic Energy	New bascule bridge replaces an aging bridge.
		Total: 4		of Moving	Dampers are used to protect the bascule leafs and
		890 kN + 400mm stroke		Bridge	ensure soft settling.
ITS Kenpo Okubo Union Hall	Japan/Tokyo-Okubo	Taylor Fluid Dampers	2006	Seismic	New 7-story office building for Kanto IT software
		Total: 18			health insurance association. Dampers are used in
		1425 Kn + 50mm stroke			diagonal braces to dissipate seismic energy.
		1960 kN + 50mm stroke			
		2330 kN + 50mm stroke			
D - Asset VIII Nishi - Shinjyuku	Japan/Tokyo-	Taylor Fluid Dampers	2006	Seismic	New 13-story office building known as D-
Building	Shinjyuku	Total: 25			ASSETVIII. Dampers used in diagonal braces to
		500 kN + 100mm stroke			dissipate seismic energy.
Waldo – Penebscot River Bridge	USA/Verona, ME	Taylor Fluid Dampers	2006	Wind/Rain	New cable-stayed bridge and observation tower
		Total: 160			uses dampers attached to cable stays to reduce
		9 kN ± 63mm stroke			vibration from wind and rain.
Marvell Building # 100, 200 and	USA/Santa Clara, CA	Taylor Fluid Dampers	2006	Seismic	Seismic upgrade of existing structures and seismic
Connector Building		Total: 104			protection of new connecting structure. Dampers
		890 kN + 76mm stroke			used in diagonal braces to dissipate seismic energy.
Marvell Building # 400	USA/Santa Clara, CA	Taylor Fluid Dampers	2006	Seismic	Seismic upgrade of existing structure. Dampers
-		Total: 26			used in diagonal braces to dissipate seismic energy.
		890 kN \pm 76mm stroke			
		$2935 \text{ kN} \pm 76 \text{mm stroke}$			
		$4380 \text{ kN} \pm 76 \text{mm stroke}$			
Berryhill Elementary School	USA/Ceres, CA	Taylor Fluid Dampers	2006	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			-
Four Elementary Schools for the Ceres	USA/Ceres, CA	Taylor Fluid Dampers	2006	Seismic	New school athletic complex uses dampers in
Unified School District		Total: 32			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			-
Adkison Elementary School	USA/Ceres, CA	Taylor Fluid Dampers	2006	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		107 kN ± 75mm stroke			
Hidahl Elementary School	USA/Ceres, CA	Taylor Fluid Dampers	2006	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		107 kN ± 75mm stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48 2000 kN ± 450mm stroke			
LaRosa Elementary School	USA/Ceres, CA	Taylor Fluid Dampers	2006	Seismic	New school athletic complex uses dampers in
Larrosa Liementary School	oshi ceres, en	Total: 8	2000	Seisinie	chevron braces to dissipate seismic energy.
		107 kN ± 75mm stroke			enerion braces to dissipate seising energy.
926 J Street	926 J Street	Taylor Fluid Dampers	2006	Seismic	Retrofit of a 1920's vintage, 10,000 square meter
220 0 Serece	200 511000	Total: 16	1 2000	Seisinie	concrete office building. Dampers used in diagonal
		1557 kN ± 75mm stroke			bracing elements to dissipate seismic energy.
		1557 KI (= 75 MM Set ORC			bracing elements to dissipate seismic energy.
Kent Parking Garage	USA/Kent, WA	Taylor Fluid Dampers	2006	Seismic	Seismic upgrade of a 3-story concrete parking
	·	Total: 16			garage. Dampers used in diagonal braces to
		$445 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			dissipate seismic energy.
Bercy Tolbiac Bridge	France/Paris	Taylor Fluid Dampers	2006	Pedestrian	New footbridge uses special metal bellows dampers
		Total: 4		Traffic	to reduce vibrations caused by pedestrian traffic.
		$34 \text{ kN} \pm 65 \text{mm} \text{ stroke}$			
		$53 \text{ kN} \pm 65 \text{mm stroke}$			
		$82 \text{ kN} \pm 25 \text{mm stroke}$			
Chiba Chuo Project (6th area urban	Japan/Chiba City	Taylor Fluid Dampers	2006	Seismic	New 15-story steel mixed-use office/retail/ science
redevelopment project)		Total: 42			museum building uses a combination of unbonded
		$980 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			braces and dampers to dissipate seismic energy.
		$1960 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Shibuya Park Road Building	Japan/Tokyo	Taylor Fluid Dampers	2006	Seismic	New 7-story, 2,200 square meter reinforced
		Total: 10			concrete office building uses dampers to dissipate
		$2452 \text{ kN} \pm 125 \text{mm stroke}$			seismic energy.
		$3149 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
		5885 kN ± 100mm stroke			
Tainan Science Park Junction Bridge	Taiwan/Tainan	Taylor Fluid Dampers	2006	Seismic	Dampers installed on top of the bridge piers,
		Total: 48			connecting the bottom of the post-stressing
		$785 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			reinforced concrete I-beam for earthquake energy
				~	dissipation.
Jan-Ron Ritz Building	Taiwan/Taipei	Taylor Fluid Dampers	2006	Seismic	New 24-story reinforced concrete residential
		Total: 64			building uses dampers in A-shape supporting frame
D / T I D !!!	TD 1 //D 1 1	980 kN ± 100mm stroke	2006	g	for earthquake energy dissipation.
Ruentex Tun-Jen Building	Taiwan/Taipei	Taylor Fluid Dampers	2006	Seismic	New 21-story steel-framed residential building uses
		Total: 88			dampers in A-shape supporting frame for
		858 kN ± 100mm stroke			earthquake energy dissipation.
Dailing Cilmantic Control	China/Da'''	1147 kN ± 100mm stroke	2006	Calman	No. (2 stom building nor desired in
Beijing Silvertie Center	China/Beijing	Taylor Fluid Dampers	2006	Seismic	New 63-story building uses dampers in diagonal
		Total: 73			braces to reduce seismic and wind motion.
	1	$1200 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			

Naimana Wasi Baidaa	China	Tarday Vissaus Dawn aus	2012	Caiamia	
Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
Dames CME Dulling #66	IJC A /Dawleslaw CA	2000 kN ± 450mm stroke	2005	Caiamia	Nov. 2 store 2 500 serious motor aliminal
Bayer CMF Building #66	USA/Berkeley, CA	Taylor Fluid Dampers	2005	Seismic	New 2-story, 3,500 square meter clinical
		Total: 88			manufacturing facility utilizes dampers to reduce
		858 kN ± 100mm stroke			drift and dissipate seismic energy.
		1147 kN ± 100mm stroke			
	**************************************	1325 kN ± 100mm stroke	2007	~	
Sinclear Elementary School	USA/Ceres, CA	Taylor Fluid Dampers	2005	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		107 kN ± 75mm stroke			
Semiconductor Building	USA/Silicon Valley,	Taylor Fluid Dampers	2005	Seismic	Seismic upgrade of a 2-story steel frame
	CA	Total: 26			semiconductor manufacturing building uses
		890 kN \pm 76mm stroke			dampers in diagonal braces.
		$2935 \text{ kN} \pm 76 \text{mm stroke}$			
		4380 kN ± 76mm stroke			
Logan Airport Central Parking	USA/Boston, MA	Taylor Fluid Dampers	2005	Seismic	Lock-up devices used as part of a seismic upgrade
Garage		Total: 96			and expansion. Devices used between existing
		$133 \text{ kN} \pm 25 \text{mm stroke}$			structure and new parking structure around
					original structure at the first and second floors.
Mississippi River Bridge	USA/Greenville, MS	Taylor Fluid Dampers	2005	Seismic	New cable-stayed bridge carries U.S. Hwy 82 over
		Total: 8			Mississippi River. 420 m main span is longest in
		4600 kN ± 152mm stroke			the continental U.S. Dampers control seismic
					movement while allowing for thermal movement.
Spring Mountain Road Pedestrian	USA/Las Vegas, NV	Taylor Fluid Dampers	2005	Pedestrian	Group of three new pedestrian bridges utilize
Bridges		Total: 18		Traffic	Taylor tuned mass dampers to reduce pedestrian-
		TMD Systems			induced vibrations.
Hammersly Wharf	Australia	Taylor Fluid Dampers	2005	Seismic	East Intercourse Island Wharf Strengthening
		Total: 1			Project- Damper used to control seismic movement
		1890 kN ± 75mm stroke			while allowing free thermal movement.
Jackson Street Bridge	Australia/Fyshwick	Taylor Fluid Dampers	2005	Seismic	Shock Transmission Units used to control seismic
		Total: 2			movement while allowing free thermal movement.
		$400 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
GerFu Business Center	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	Structural retrofit of an office building. Dampers
	·	Total: 25			used in chevron braces to dissipate seismic energy.
		$490 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
		980 kN ± 100mm stroke			
Nanjing 3rd Crossing Bridge	China/Nanjing	Taylor Fluid Dampers	2005	Seismic	Dampers installed on the approaches of a new cable
		Total: 54			stayed bridge to control longitudinal earthquake
		1471 kN ± 120mm stroke			movement while allowing free thermal movement.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Tremeng Waxi Briage		Total: 48	2012	Scisinic	
		2000 kN ± 450mm stroke			
Huabei Power Plant	China/Shandong	Taylor Fluid Dampers	2005	Equipment	Dampers used to reduce equipment vibration.
Truabel I owel I lant	China/Shandong	Total: 96	2003	Vibration	Dampers used to reduce equipment vibration.
		8.9 kN ± 25.4mm stroke		V IDI ation	
Zhengzhou Convention Center	China/Zhengzhou	Taylor Fluid Dampers	2005	Pedestrian	New convention center floor utilizes tuned mass
Zhengzhoù Convention Center	Cilila/Ziiengziiou	Total: 144	2003	Traffic &	dampers to reduce perceptible vibrations caused by
		2 kN ± 25mm stroke			walking and dancing inputs.
Cyprus Olympic Building	Cyprus/Nicosia	Taylor Fluid Dampers	2005	Dancing Seismic	New 3-story reinforced concrete building uses
Cypi us Olympic Bunuing	Cypi us/ivicosia	Total: 52	2003	Seisilic	dampers in scissor-type toggle braces to dissipate
Pont de Vatine Bridge	France/Le Havre	150 kN ± 50mm stroke Taylor Fluid Dampers	2005	Kinetic Energy	seismic energy. New movable pedestrian bridge uses a combination
Pont de vatine bridge	France/Le Havre	Total: 6	2005	Kinetic Energy	
					of lift, oscillation and rotational energy absorbers.
		67 kN ± 102mm stroke			
		67 kN ± 152mm stroke			
	- m	50 kN ± 152mm stroke	2007	~	27 44 4 26 400
Shinjuku 3-Chome East Building	Japan/Tokyo-	Taylor Fluid Dampers	2005	Seismic	New 14-story 26,400 square meter entertainment
	Shinjyuku	Total: 2			complex uses dampers to dissipate seismic energy.
		2452 kN ± 150mm stroke			
Daebuk Gyo Bridge	South Korea/Wulsan	Taylor Fluid Dampers	2005	Seismic	Seismic retrofit of a three span steel girder highway
	City	Total: 4			bridge.
		868 kN ± 100mm stroke			
Alameda	Mexico/Mexico City	Taylor Fluid Dampers	2005	Seismic	Conversion of a 1950's vintage parking garage to
		Total: 34			small apartments. Dampers used in diagonal
		$645 \text{ kN} \pm 75 \text{mm stroke}$			bracing elements to dissipate seismic energy.
Fubon/China Insurance Building	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	New 16-story residential building uses dampers in
		Total: 124			diagonal braces to dissipate seismic energy.
		$490 \text{ kN} \pm 75 \text{mm stroke}$			
		$785 \text{ kN} \pm 75 \text{mm stroke}$			
		$1079 \text{ kN} \pm 75 \text{mm stroke}$			
		$1275 \text{ kN} \pm 75 \text{mm stroke}$			
		1471 kN ± 75mm stroke			
Kindom 101 Leadership	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	New 18-story 13,000 square meter residential
		Total: 23			building uses dampers in diagonal bracing
		$980 \text{ kN} \pm 50 \text{mm stroke}$			elements.
National Palace Museum	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	Retrofit of a well-known museum. Dampers used
		Total: 172			to dissipate seismic energy in this seven building
		$500 \text{ kN} \pm 75 \text{mm stroke}$			complex.
		$1000 \text{ kN} \pm 75 \text{mm stroke}$			
Shin Keio Plaza	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	New 22-story SRC residential building uses
	1	Total: 24			dampers in A-shape supporting frame for
		980 kN ± 152mm stroke			earthquake energy dissipation.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	T
Tronsong Want Brange		Total: 48		201311110	
		2000 kN ± 450mm stroke			
Touch the Heart of Hawaii	Taiwan/Taipei	Taylor Fluid Dampers	2005	Seismic	New 35,000 square meter 14-story reinforced
		Total: 30			concrete residential building uses a combination of
		980 kN ± 50mm stroke			dampers in diagonal and chevron braces.
		1225 kN ± 75mm stroke			uninpers in uningerial and energy services.
Nordstrom South Coast Plaza	USA/Costa Mesa, CA	Taylor Fluid Dampers	2004	Seismic	Retrofit of 23,000 square meter, 4-story steel
	'	Total: 40			moment frame retail building. Dampers used in
		$667 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			chevron braces to dissipate seismic energy.
		$890 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			8,
Monroe Middle School	USA/Campbell, CA	Taylor Fluid Dampers	2004	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		107 kN ± 75mm stroke			1
Rolling Hills Middle School	USA/Los Gatos, CA	Taylor Fluid Dampers	2004	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			·
East Bay Municipal Utility District-	USA/Oakland, CA	Taylor Fluid Dampers	2004	Seismic	Retrofit of 10-story steel structure. Dampers used
Administration Building		Total: 50			in diagonal and chevron braces to dissipate seismic
		1112 kN ± 127mm stroke			energy.
		1446 kN ± 190mm stroke			
		2669 kN ± 165mm stroke			
CSUS-Academic Information	USA/Sacramento, CA	Taylor Fluid Dampers	2004	Seismic	New 10,000 square meter, 4-story steel frame
Resources Center		Total: 24			building uses dampers in diagonal bracing elements
		230 kN \pm 50mm stroke			to dissipate seismic energy.
		260 kN ± 50mm stroke			
Vacaville Police Station	USA/Vacaville, CA	Taylor Fluid Dampers	2004	Seismic	New 2-story, 4,000 square meter police
		Total: 20			headquarters uses dampers in diagonal braces to
		$489 \text{ kN} \pm 50 \text{mm stroke}$			provide a cost-effective building that will provide
		890 kN \pm 50mm stroke			immediate occupancy performance for a 475 year
					return seismic event.
Los Angeles Regional Transportation	USA/Los Angeles, CA	Taylor Fluid Dampers	2004	Seismic	New construction with base isolation. These special
Management Center		Total: 25			dampers are equipped with an automatic wind-lock
		1450 kN ± 660mm stroke			mechanism, while also functioning as seismic
					energy absorbers.
Richmond-San Rafael Bridge	USA/Richmond, CA	Taylor Fluid Dampers	2004	Seismic	Retrofit of a 4.5 mile steel truss bridge designed in
		Total: 28			the 1950's. Dampers used to dissipate seismic
		1000 kN ± 965mm stroke			energy and allow the bridge to withstand a
		2225 kN ± 508mm stroke			maximum credible earthquake.
George Washington Bridge	USA/Seattle, WA	Taylor Fluid Dampers	2004	Seismic	Retrofit of a large steel truss bridge. Devices used
		Total: 4			to control seismic movement while allowing free
		$4900 \text{ kN} \pm 75 \text{mm stroke}$			thermal movement.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		2000 kN ± 450mm stroke			
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 microvibrations.
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 microvibrations.
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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN \pm 450mm stroke			
Taishin Bank Headquarters	Taiwan/Taipei	Taylor Fluid Dampers	2003-2004	Seismic	New 28-story steel framed office building uses
Tuisiini Duini Heuuquur ters	Turvium, Turper	Total: 72	2002 2001	Seisinic	dampers in chevron braces for earthquake energy
		980 kN ± 75mm stroke			dissipation.
		1470 kN ± 75mm stroke			uissipation.
		1962 kN ± 75mm stroke			
Cross Keys Bridge	UK/South	Taylor Fluid Dampers	2003	Rraking/Tracti	Retrofit/upgrade of an old swing bridge. Device
Cross Reys Bridge	Lincolnshire	Total: 1	2003	on	used to control braking/traction forces while
	Lincomsinie	330 kN ± 92mm stroke		OII	allowing free thermal movement.
Guitai Construction Residential	Taiwan/Taipei	Taylor Fluid Dampers	2003	Seismic	New 9-story steel reinforced concrete residential
	1 aiwaii/ 1 aipei	Total: 28	2003	Seisinic	*
Building (KCEC)					building uses dampers in chevron braces for
Hilmon Cymnosium	UCA/IIIIman CA	735 kN ± 50mm stroke	2002	Cojamia	earthquake energy dissipation.
Hilmar Gymnasium	USA/Hilmar, CA	Taylor Fluid Dampers	2003	Seismic	New school athletic complex uses dampers in
		Total: 8			chevron braces to dissipate seismic energy.
NY NY TO A A NA	TICA/C E	107 kN ± 75mm stroke	2002	g : ·	N 1
New de Young Fine Arts Museum	USA/San Francisco,	Taylor Fluid Dampers	2003	Seismic	New base isolated building uses fluid viscous
	CA	Total: 26			dampers to add energy dissipation to isolation
		1112 kN ± 762mm stroke		~	system for premium seismic performance.
PSU - Smith Memorial Center	USA/Portland, OR	Taylor Fluid Dampers	2003	Seismic	Seismic upgrade to Portland State University
Building		Total: 118			Building. Dampers are used in chevron braces
		$400 \text{ kN} \pm 75 \text{mm stroke}$			throughout this 4-story structure.
		$845 \text{ kN} \pm 75 \text{mm stroke}$			
Renton Transfer Station	USA/Renton, WA	Taylor Fluid Dampers	2003	Wind	New King County recycling center roof structure
		Total: 3			uses dampers in diagonal knee-brace for seismic
		290 kN ± 75mm stroke			energy dissipation.
Parklane Apartments	New	Taylor Fluid Dampers	2003	Wind	Retrofit of residential apartment building with
	Zealand/Wellington	Total: 8			dampers in two tuned mass dampers to reduce
		10 kN ± 89mm stroke			motion caused by wind.
Pearson Airport Control Tower	Canada/Toronto, ON	Taylor Fluid Dampers	2003	Wind	New air traffic control tower uses dampers as part
		Total: 8			of a tuned mass damper to reduce motion caused by
		$31 \text{ kN} \pm 89 \text{mm stroke}$			wind.
Peace & Friendship Stadium	Greece/Athens	Taylor Fluid Dampers	2003	Seismic	Seismic upgrade and renovation to the roof of an
		Total: 128			isolated saddle-shaped stadium used for the 2004
		$1000 \text{ kN} \pm 85 \text{mm stroke}$			Olympics in Athens.
		$1200 \text{ kN} \pm 60 \text{mm stroke}$, , , , , , , , , , , , , , , , , , ,
Pietrasanta Residences	Venezuela/	Taylor Fluid Dampers	2003	Seismic	New 11-story residential building uses dampers to
	Barquisimeto	Total: 24			absorb seismic energy to provide unparalleled
		$245 \text{ kN} \pm 75 \text{mm stroke}$			performance in this premium caliber structure.
Solano County Government Building	USA/Fairfield, CA	Taylor Fluid Dampers	2003	Seismic	New government building utilizes dampers in
· · · · · · · · · · · · · · · · ·		Total: 20			chevron braces to dissipate seismic energy.
		1560 kN ± 75mm stroke			The state of the s
		11300 KM = /3111111 SU OKE			<u> </u>

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
Tremeng Wuxi Bridge	Cinna	Total: 48	2012	Scisinic	
		2000 kN ± 450mm stroke			
Soldier Field	USA/Chicago, IL	Taylor Fluid Dampers	2003	Spectator	New seating bowl for football stadium uses
Soldier Field	OSM Cincago, 12	Total: 42	2003	Vibration	dampers in tuned mass dampers to reduce motion
		9 kN ± 50mm stroke		v ioi acion	caused by spectator movements.
Taiwan High Speed Rail - Section	Taiwan/Yun Lin	Taylor Fluid Dampers	2003	Seismic	New high speed railway bridge sections use
C270		Total: 34	2000	Seisine	dampers to control movement at expansion joints
		3900 kN ± 125mm stroke			during earthquake and train braking events.
Holland Hills Mori Tower RoP	Japan, Tokyo	Taylor Fluid Dampers	2003	Seismic	New construction, 24-story building uses dampers
	· ··· · · · · · · · · · · · · · · ·	Total: 204			to dissipate earthquake energy to reduce demands
		650 kN ± 100mm stroke			on the structure.
		1300 kN ± 100mm stroke			
		1800 kN ± 100mm stroke			
Cochrane Bridge	USA/Mobile, AL	Taylor Fluid Dampers	2003	Wind	Retrofit of a cable-stayed bridge. Dampers
	ŕ	Total: 68			attached to cable stays to reduce motion induced by
		40 kN ± 150mm stroke			a combination of wind and rain.
		22 kN ± 150mm stroke			
Chung Hwa Telecommunications	Taiwan/San Hwa	Taylor Fluid Dampers	2003	Seismic	Retrofit of Taiwan Government-owned 3-story
Building		Total: 12			office and equipment telecommunications building.
		1570 kN ± 100mm stroke			Uses dampers in chevron braces for earthquake
					energy dissipation.
San Francisco-Oakland Bay Bridge,	USA/San Francisco,	Taylor Fluid Dampers	2003	Seismic	Retrofit of suspension span between San Francisco
West Span- Suspension Bridge	CA	Total: 100			and Yerba Buena island. Dampers used to
		2000 kN ± 483mm stroke			dissipate seismic energy.
		2450 kN ± 584mm stroke			
		3115 kN ± 178mm stroke			
Abernethy Bridge	USA/Oregon City, OR	Taylor Fluid Dampers	2002-2003	Seismic	Retrofit of an existing bridge. Dampers used to
		Total: 32			control earthquake movement and distribute forces
		1000 kN ± 55mm stroke			while allowing free thermal movement.
		1500 kN ± 75mm stroke			
		750 kN ± 155mm stroke			
Route 364 Page Avenue Extension	USA/St. Louis, MO	Taylor Fluid Dampers	2002-2003	Seismic	New tied arch/plate girder bridge uses dampers to
Bridge		Total: 178			control longitudinal earthquake movement while
		1050 kN ± 50mm stroke			allowing free thermal movement.
		756 kN ± 70mm stroke			
		1824 kN ± 50mm stroke			
		2225 kN ± 92mm stroke			
		556 kN ± 127mm stroke			
A4-42	Tanahaan/Latanilani	867 kN ± 127mm stroke	2002	C -:	F-A-maion of Intornational Torontal and I
Atatürk Airport Expansion	Turkey/Istanbul	Taylor Fluid Dampers	2002	Seismic	Extension of International Terminal required
		Total: 68			additional damping devices to control deflection
		45 kN ± 25mm stroke			and minimize thermal restrictions of roof structure
					supported on FPS isolators.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
BCBC Pandora Wing	Canada/Victoria, BC	Taylor Fluid Dampers	2002	Seismic	Retrofit of a 7-story concrete frame/shear wall
		Total: 76			building built in 1974. Dampers used in chevron
		220 kN \pm 57mm stroke			braces.
		130 kN ± 57mm stroke			
Boise Airport	USA/Boise, ID	Taylor Fluid Dampers	2002	Seismic &	New construction, airport terminal building uses
		Total: 8		Wind	dampers to dissipate earthquake energy to reduce
		$445 \text{ kN} \pm 57 \text{mm stroke}$			demands on the structure.
		$756 \text{ kN} \pm 84 \text{mm stroke}$			
		979 kN ± 127mm stroke			
Buddhist Headquarters	Taiwan/Taipei	Taylor Fluid Dampers	2002	Seismic	New construction, 17-story building uses dampers
		Total: 60			to dissipate earthquake energy.
		981 kN ± 75mm stroke			
Gillette (Foxboro) Stadium	USA/Foxboro, MA	Taylor Fluid Dampers	2002	Seismic	Dampers installed across expansion joints of a new
		Total: 18			open-air football stadium to control motion caused
7007	770.1.10	222 kN ± 178mm stroke	2002	~	by seismic events.
Bill Emerson Memorial Bridge	USA/Cape Girardeau,		2002	Seismic	New construction of a cable-stayed bridge.
(Cape Girardeau)	MO	Total: 16			Dampers used to control longitudinal earthquake
		6700 kN ± 180mm stroke			movement while allowing free thermal movement.
Torre Mayor (Chapultepec Tower)	Mexico/Mexico City	Taylor Fluid Dampers	2002	Seismic	New 55-story high-rise office/hotel tower uses
		Total: 98			dampers in mega-braces to dissipate earthquake
		$5600 \text{ kN} \pm 52 \text{mm stroke}$			energy.
		2770 kN ± 52mm stroke			
Discovery Bay Gymnasium	USA/Discovery Bay,	Taylor Fluid Dampers	2002	Seismic	New school athletic complex uses dampers in
	CA	Total: 8			chevron braces to dissipate seismic energy.
		$107 \text{ kN} \pm 75 \text{mm stroke}$			
Genentech FRC II	USA/San Francisco,	Taylor Fluid Dampers	2002	Seismic	New construction, 3-story multi-building complex
	CA	Total: 192			uses dampers to dissipate earthquake energy.
		$667 \text{ kN} \pm 102 \text{mm} \text{ stroke}$			
		890 kN \pm 102mm stroke			
		1334 kN ± 102mm stroke			
HP Invent Building 5	USA/Corvallis, OR	Taylor Fluid Dampers	2002	Seismic	Voluntary seismic upgrade of a critical
		Total: 18			manufacturing facility. Dampers are used in
		$400 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			diagonal bracing to dissipate seismic energy.
	**************************************	135 kN ± 100mm stroke			
Hollister Gymnasiums	USA/Hollister, CA	Taylor Fluid Dampers	2002	Seismic	Voluntary seismic upgrade of a critical
		Total: 40			manufacturing facility. Dampers are used in
H. D. W. CHAY	(T) 1 (T) 1	106 kN ± 76mm stroke	2002	G	diagonal bracing to dissipate seismic energy.
Hsien Dien/Tzu Chi Hospital	Taiwan/Taipei	Taylor Fluid Dampers	2002	Seismic	New construction, dampers used to add energy
		Total: 48			dissipation to a base isolation system.
		890 kN ± 810mm stroke			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48 2000 kN ± 450mm stroke	2012	Seismic	
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.
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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		$2000 \text{ kN} \pm 450 \text{mm} \text{ stroke}$			
Hearst Memorial Mining Building	USA/Berkeley, CA	Taylor Fluid Dampers	2001	Seismic	Seismic retrofit of a 4-story brick laboratory
		Total: 26			building on the U.C. Berkeley campus. Dampers
		$890 \text{ kN} \pm 813 \text{mm stroke}$			provide energy dissipation for a seismic isolation
					system.
J-city TOKYO Office Tower	Japan/Tokyo	Taylor Fluid Dampers	2001	Seismic	New construction, 23-story building uses dampers
		Total: 241			to dissipate earthquake energy to reduce demands
		$785 \text{ kN} \pm 50 \text{mm stroke}$			on the structure.
		$1275 \text{ kN} \pm 75 \text{mm stroke}$			
Millennium Bridge	UK/London	Taylor Fluid Dampers	2001	Pedestrian	Retrofit of pedestrian bridge to reduce lateral and
		Total: 37		Traffic	vertical movements caused by large groups of
		$50 \text{ kN} \pm 25 \text{mm stroke}$			people walking on the bridge. Special metal
		50 kN +153/-377mm stroke			bellows dampers used for maintenance-free
		50 kN + 40/-80mm stroke			operation over the life of the bridge under
					continuous cycling.
New Westminster, BC Police Building	Canada/New	Taylor Fluid Dampers	2001	Seismic	Retrofit of a 4-story concrete frame/shear wall
	Westminster, BC	Total: 12			building built in 1939. Dampers used in chevron
	,	$890 \text{ kN} \pm 70 \text{mm stroke}$			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	2001	Seismic	Seismic retrofit of an office building. Dampers
		Total: 22			used in chevron braces to dissipate seismic energy.
		$1670 \text{ kN} \pm 152 \text{mm stroke}$			
Sacramento River Bridge at Rio Vista	USA/Rio Vista, CA	Taylor Fluid Dampers	2001	Seismic	Seismic retrofit of lift bridge towers to dampen the
G		Total: 10			rocking effect during an earthquake.
		$825 \text{ kN} \pm 133 \text{mm stroke}$			
Taishin Bank	Taiwan/Taipei	Taylor Fluid Dampers	2001	Seismic	New construction, 14-story building uses dampers
		Total: 144			to dissipate earthquake energy. Cousin building to
		$266 \text{ kN} \pm 50 \text{mm stroke}$			First International Computer Company Building.
		$434 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			
		$583 \text{ kN} \pm 50 \text{mm stroke}$			
		989 kN \pm 63mm stroke			
		$1349 \text{ kN} \pm 63 \text{mm stroke}$			
Tokyo Rinkai Hospital	Japan/Tokyo	Taylor Fluid Dampers	2001	Seismic	New construction, dampers used to add energy
• •	•	Total: 45			dissipation to a base isolation system.
		$890 \text{ kN} \pm 813 \text{mm stroke}$			·
WorldCom – Local Switch	USA/Oakland, CA	Taylor Fluid Dampers	2001	Seismic	Seismic retrofit of a 17-story building. Dampers
	ĺ	Total: 20			used in diagonal braces.
		$2225 \text{ kN} \pm 75 \text{mm stroke}$			
		$2225 \text{ kN} \pm 150 \text{mm stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48 2000 kN ± 450mm stroke	2012	Seismic	
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.
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.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Yerba Buena Tower	USA/San Francisco,	Taylor Fluid Dampers	2000	Wind	Voluntary seismic upgrade of a computer facility.
	CA	Total: 20			Dampers used in chevron braces to dissipate
		445 kN ± 125mm stroke			seismic energy.
1414 K Street	USA/Sacramento, CA	Taylor Fluid Dampers	1999	Seismic	Retrofit of an existing office building. Dampers
		Total: 8			used in diagonal braces to dissipate earthquake
		1125 kN ± 63mm stroke			energy.
Minute Maid Park (Ballpark at Union	USA/Houston, TX	Taylor Fluid Dampers	1999	Wind	New baseball stadium utilizes dampers to mitigate
Station)		Total: 16			the effects of hurricane force winds on the roof
		300 kN ± 153mm stroke			structure.
Beijing Railway Station	China/Beijing	Taylor Fluid Dampers	1999	Seismic	Retrofit of a railway station. Dampers used in
		Total: 32			chevron bracing elements to dissipate earthquake
		1300 kN ± 44mm stroke			energy.
Hyatt Park Tower	USA/Chicago, IL	Taylor Fluid Dampers	1999	Wind	New 67-story reinforced concrete structure uses
		Total: 10			dampers as part of a Tuned Mass Damper to
		$45 \text{ kN} \pm 500 \text{mm} \text{ stroke}$			improve occupant comfort during wind storms.
		$22 \text{ kN} \pm 265 \text{mm stroke}$			
		$45 \text{ kN} \pm 300 \text{mm} \text{ stroke}$			
		175 kN ± 100mm stroke			
I-5/91 HOV Bridge	USA/Anaheim, CA	Taylor Fluid Dampers	1999	Seismic	New bridge uses dampers to dissipate earthquake
_		Total: 8			energy for reduced demands on the structure.
		$1110 \text{ kN} \pm 200 \text{mm} \text{ stroke}$			
Los Angeles City Hall	USA/Los Angeles, CA	Taylor Fluid Dampers	1999	Seismic	Retrofit of City Hall building with dampers used to
		Total: 68			add energy dissipation to base isolation system.
		1400 kN ± 600mm stroke			Also uses dampers at 27th floor to protect tower
		1000 kN ± 115mm stroke			from earthquakes.
Microsoft Silicon Valley Campus –	USA/Mountain View,	Taylor Fluid Dampers	1999	Seismic	New construction, 10,000 square meter computer
Building 1	CA	Total: 15			data center with dampers used in chevron bracing
_		1000 kN ± 75mm stroke			elements to dissipate seismic energy.
Con Property Labor 12 14	TICA/Com E	Total or Florid D	1000	G-: •	No. Atmosphere (A. D. C.
San Francisco International Airport -	USA/San Francisco,	Taylor Fluid Dampers	1999	Seismic	New Airport Rail Transit (ART) and Bay Area
Rail Transit System Westside	CA	Total: 10			Rapid Transit (BART) structure implement
Guideway		4225 kN ± 508mm stroke			dampers for earthquake energy dissipation.
	TIGAIG E	3115 kN ± 508mm stroke	1000	<u> </u>	
San Francisco International Airport -	USA/San Francisco,	Taylor Fluid Dampers	1999	Seismic	New pedestrian bridge utilizes dampers to dissipate
South International Parking Garage	CA	Total: 20			earthquake energy and reduce movement.
Pedestrian Bridge	TIGAIG E	445 kN ± 254mm stroke	1000	g	T
San Francisco - Oakland Bay Bridge,	USA/San Francisco,	Taylor Fluid Dampers	1999	Seismic	Interim retrofit of East Bay 504 truss sections.
East Span - Truss Bridge	CA	Total: 6			Dampers used to dissipate seismic energy.
		890 kN ± 406mm stroke	_ ļ		

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
Santa Clara Police Facility	USA/Santa Clara, CA	Taylor Fluid Dampers	1999	Seismic	New police facility utilizes dampers in chevron
		Total: 40			bracing elements to dissipate earthquake energy.
		575 kN ± 25mm stroke			
		800 kN ± 25mm stroke			
Sidney Lanier Bridge	USA/Glynn County,	Taylor Fluid Dampers	1999	Seismic	New bridge utilizes dampers to control earthquake
·	GA	Total: 4			movement and distribute forces while allowing free
		2200 kN ± 203mm stroke			thermal movement.
The Nethercutt Collection	USA/Sylmar, CA	Taylor Fluid Dampers	1999	Seismic	New construction, automotive museum with
		Total: 32			dampers used in diagonal braces to dissipate
		$1500 \text{ kN} \pm 75 \text{mm stroke}$			seismic energy.
		1065 kN ± 75mm stroke			<i>6</i> v
		665 kN ± 75mm stroke			
Transbay Transit Terminal	USA/San Francisco,	Taylor Fluid Dampers	1999	Seismic	Retrofit of a bus terminal. Dampers used in
•	CA	Total: 36			chevron bracing elements to dissipate earthquake
		1300 kN ± 44mm stroke			energy.
		$1300 \text{ kN} \pm 76 \text{mm stroke}$			<i>6</i> V
Willamette River Pedestrian Bridge	USA/Eugene, OR	Taylor Fluid Dampers	1999	Seismic &	Retrofit of a bridge over the Willamette River.
		Total: 4		Wind	Dampers used to control wind and earthquake
		500 kN ± 40mm stroke			movement while allowing free thermal movement.
					g
SAFECO Field (New Pacific	USA/Seattle, WA	Taylor Fluid Dampers	1998-1999	Wind & Kinetic	Dampers installed between three roof sections and
Northwest Baseball Park)		Total: 36		Energy	at end stops to absorb energy from impact due to
·		1780 kN ± 100mm stroke			wind, kinetic energy and motor drive.
		890 kN ± 400mm stroke			,
First Avenue South Bridge	USA/Seattle, WA	Taylor Fluid Dampers	1998	Kinetic Energy	Retrofit of a bascule bridge to protect the bascule
_		Total: 4		of Moving	leafs from runaway motors and brake failures.
		600 kN + 635mm stroke		Bridge	•
SAFECO Field (New Pacific	USA/Seattle, WA	Taylor Fluid Dampers	1998	Seismic &	New baseball stadium utilizes dampers to dissipate
Northwest Baseball Park)		Total: 8		Wind	earthquake energy in each of three movable roof
		3600 kN ± 381mm stroke			sections.
Tillamook Hospital	USA/Tillamook, OR	Taylor Fluid Dampers	1998	Seismic	Retrofit of an existing hospital to meet current
		Total: 30			seismic protection code levels. Dampers used in
		$135 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			chevron braces to dissipate earthquake energy.
UCLA-Knudsen Hall	USA/Los Angeles, CA	Taylor Fluid Dampers	1998	Seismic	Seismic upgrade of a University building. Dampers
		Total: 84			used in chevron bracing elements to dissipate
		355 kN ± 100mm stroke			earthquake energy.
		$245 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
Alaska Commercial Building	USA/Alaska	Taylor Fluid Dampers	1997	Seismic	Retrofit of a timber frame structure. Dampers
_		Total: 2			used in diagonal bracing to dissipate earthquake
		445 kN ± 64mm stroke			energy.

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers	2012	Seismic	
		Total: 48			
		2000 kN ± 450mm stroke			
CSULA Administration Building	USA/Los Angeles, CA	Taylor Fluid Dampers	1997	Seismic	Seismic upgrade to office building. Dampers used
		Total: 14			in chevron bracing elements to dissipate seismic
		1100 kN ± 75mm stroke			energy.
Hayward City Hall	USA/Hayward, CA	Taylor Fluid Dampers	1997	Seismic	New construction, dampers used to add energy
		Total: 15			dissipation to friction pendulum bearing isolation
		1400 kN ± 600mm stroke			system.
Quebec Iron and Titanium Smelter	Canada/Tracy	Taylor Spring Dampers and	1997	Seismic &	Dual purpose spring dampers used for seismic and
		Taylor Dampers		Wind	wind protection of two smelter buildings. Dampers
		Total: 22			used to prevent buildings from impacting during a
		$450 \text{ kN} \pm 64 \text{mm stroke}$			seismic event.
		$225 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			
		$130 \text{ kN} \pm 100 \text{mm stroke}$			
Rockwell Building 505	USA/Newport Beach,	Taylor Fluid Dampers	1997	Seismic	Retrofit of a long building with multiple expansion
	CA	Total: 6			gaps. Dampers restrict relative movement between
		$320 \text{ kN} \pm 64 \text{mm stroke}$			building sections.
San Francisco Civic Center	USA/San Francisco,	Taylor Fluid Dampers	1997	Seismic	New construction, 14-story, 80,000 square meter
	CA	Total: 292			Government office building with dampers in
		$1000 \text{ kN} \pm 100 \text{mm} \text{ stroke}$			diagonal bracing elements to dissipate seismic
		$550 \text{ kN} \pm 100 \text{mm} \text{ stoke}$			energy.
Studio Parking Garage	USA/Los Angeles, CA	Taylor Fluid Dampers	1997	Seismic	Dampers used to allow thermal motion, concrete
		Total: 2			expansion/contraction and creep, while controlling
		$150 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			earthquake movement.
Worcester's Centrum Centre/Arena	USA/Worcester, MA	Taylor Fluid Dampers	1997	Pedestrian	Ballroom floor tuned mass damping system to
and Convention Complex		Total: 32		Traffic &	eliminate perceptible vibrations due to dancing
		$10 \text{ kN} \pm 75 \text{mm stroke}$		Dancing	input and other potential input motions.
28 State Street	USA/Boston, MA	Taylor Fluid Dampers	1996	Wind	Wind dampers used in diagonal bracing for
		Total: 40			comfort level improvements to a completely
		$670 \text{ kN} \pm 25 \text{mm stroke}$			renovated high-rise office building.
Arrowhead Regional Medical Center	USA/San Bernardino,	Nonlinear Taylor Fluid	1996	Seismic	New construction, dampers used to add energy
(5 buildings)	CA	Dampers			dissipation to rubber bearing isolation system in
		Total: 186			five independently isolated buildings.
		$1400 \text{ kN} \pm 600 \text{mm} \text{ stroke}$			
CSUS Science II Building	USA/Sacramento, CA	Taylor Fluid Dampers	1996	Seismic	Seismic dampers used in chevron bracing of this
_		Total: 40			new structure to dissipate seismic energy.
		$220 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			
First Avenue Bridge	USA/Seattle, WA	Taylor Fluid Dampers	1996	Kinetic Energy	Protection of new bascule leafs from runaway
		Total: 4		of Moving	motors and brake failures.
		400 kN + 685mm stroke		Bridge	
Hotel Woodland	USA/Woodland, CA	Taylor Fluid Dampers	1996	Seismic	Seismic retrofit of 4-story historic concrete
		Total: 16			structure with fluid dampers in chevron bracing.
		$450 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			

Neimeng Wuxi Bridge	China	Taylor Viscous Dampers Total: 48	2012	Seismic	
		2000 kN \pm 450mm stroke			
Kaiser Data Center	USA/Corona, CA	Taylor Fluid Dampers	1996	Seismic	Seismic retrofit with dampers used to add energy
Transcr Baca Center	Corn corona, cri	Total: 16	1550	Scisinic	dissipation to rubber bearing isolation system.
		425 kN ± 560mm stroke			and the second s
Langenbach House	USA/Oakland, CA	Taylor Fluid Dampers	1996	Seismic	Seismic dampers used to provide energy dissipation
D	,	Total: 4			in base isolation system.
		$130 \text{ kN} \pm 150 \text{mm stroke}$, and a control of the control of th
Montlake Bridge	USA/Seattle, WA	Taylor Fluid Dampers	1996	Kinetic Energy	Retrofit of a bascule bridge to protect the bascule
<u> </u>	ŕ	Total: 4		of Moving	leafs from runaway motors and brake failures.
		240 kN ± 483mm stroke		Bridge	·
The Money Store National	USA/Sacramento, CA	Taylor Fluid Dampers	1996	Seismic	New construction, pyramid shaped 11-story office
Headquarters		Total: 120			building, moment moment frame structure with
		1290 kN ± 64mm stroke			dampers in diagonal braces.
		$710 \text{ kN} \pm 64 \text{ mm stroke}$			
Pacific Bell North Area Operation	USA/Sacramento, CA	Taylor Fluid Dampers	1995	Seismic	New construction, 3-story steel braced frame,
Center		Total: 62			dampers in chevron braces used to dissipate seismic
		$130 \text{ kN} \pm 50 \text{mm} \text{ stroke}$			energy.
Petronas Twin Towers	Malaysia/KLCC	Taylor Fluid Dampers	1995	Wind	Kuala Lumpur City Centre high-rise towers, part
		Total: 12			of mass damping system in skybridge legs.
		$10 \text{ kN} \pm 50 \text{mm stroke}$			
Ralph Wilson Stadium	USA/Buffalo, NY	Taylor Fluid Dampers	1993	Wind	Wind dampers connect light poles to the stadium
		Total: 12			parapet wall to eliminate base plate anchor bolt
		$50 \text{ kN} \pm 460 \text{mm} \text{ stroke}$			fatigue.
West Seattle Bridge	USA/Seattle, WA	Taylor Fluid Dampers	1990	Kinetic Energy	Deck isolation for swing bridge.
		Total: 6		of Moving	
		1000 kN + 406mm stroke		Bridge	
		2515 kN + 254mm stroke			
North American Air Defense	USA/Cheyenne	Taylor Dampers	1984	Nuclear Attack	Classified.
Command	Mountain, CO	Quantity, type and size			
		classified.			