

**TECHSTAR MODULAR EXPANSION JOINT SYSTEM PROJECT LIST**

NO.	STATE	PROJECT	JOINT	Length	CONTRACTOR
1	Arizona	SR360	LR-2 LG-4	122 feet, 2 joints 123 feet, 2 joints	Wheeler Const./ ArDOT (1994)
1	California	Moor Park Arroyo Simi Brg	LG-3 LG-4	46 feet, 1 joint 138 feet, 3 joints	CC Myers/ Caltrans (1992)
2	California	Daly City	LG-2	53 feet, 1 joint	CC Myers/Caltrans(1992)
3	California	Stockton Cross-town Freeway	LG-3	40 feet, 1 joint	MCM /Caltrans (1992)
4	California	Fillmore/Ventura	LG-3 LG-4 LR-2	48 feet, 1 joint 96 feet, 2 joint 48 feet, 1 joint	Kasler Const. / Caltrans (1994)
5	California	Trabuco Creek Santa Margarita	LG-3 Major Tollway Orange Co. south from LA	202 feet, 4 joints	FCI Constructors/ Eastern Corr. (1994)
6	California	Sanderson Drive	LR-2	143 feet, 2 joints	E.L. Yeager/ Caltrans (1994)
7	California	Santa Anna	LG-2 Major freeway in Santa Anna	80 feet, 2 joints	CC Myers/ Caltrans (1994)
8	California	Upper Oso Mission Viejo	LG-4 LG-5	110 feet, 2 joints 140 feet, 2 joints	CC Myers/ Eastern Corr. (1995)
9	California	El Toro 'Y' Irvine, Orange Co.	LG-3 LG-4	65 feet, 1 joint 130 feet, 2 joints	CC Myers Caltrans (1995)
10	California	Walnut Creek	LR-2 LG-3 LG-4	31 feet, 1 joint 135 feet, 4 joints 260 feet, 6 joints	CC Myers/ Caltrans (1996)
11	California	Fresno County	LR-2 LG-3 LG-4	40 feet, 1 joint 126 feet, 3 joints 110 feet, 2 joints	Kasler /MK Washington Caltrans (1997)
12	California	Euclid Ave & I-5 (Lincoln Ave) Anaheim	LG-2 LG-3	8 meters, 1 joint 15 meters, 1 joint	CC Myers, Inc. (1998)
13	California	San Francisco Airport	LG-6 LG-5 LG-4 LG-3 LR-2	65 feet, 1 joint 126 feet, 2 joints 180 feet, 6 joints 208 feet, 6 joints 103 feet, 4 joints	CC Myers Caltrans (1999)
Joints are Swivel Type					
14	California	Nevada Co. Truckee Bypass I-80	LG-6 LR-2 Major freeway Bypass– Interstate 80	40 feet, 1 joint 80 feet, 2 joints	MCM Caltrans (2000)
15	California	I-405/SR 55 Interchange John Wayne Airport	LG-6 LG-3 Major freeway Interchange south of Los Angeles in Santa Ana Orange Co.	47 feet, 1 joint 47 feet, 1 joint	C.C. Myers Caltrans (2000)

16	California	Lemon Grove Fwy SR94 & Martin Luther King Freeway San Diego, CO Joints are Swivel Type	LG-6 LG-4 LG-3 LR-2	61 feet, 1 joint 282 feet, 5 joints 82 feet, 2 joints 295 feet, 7 joints	FCI Caltrans (2001)
17	California	Santa Clara Co. SR 87, San Jose	LG-4 LG-3 LR-2	100 feet, 1 joint 82 feet, 2 joints 125 feet, 1 joint	C.C. Myers Caltrans (2001)
18	California	Carquinez Bridge Approaches	LG-6 LG-4 LR-2	201 feet, 3 joints 163 feet, 6 joints 68 feet, 1 joint	CC Myers Caltrans (2002)
19	California	Mission Valley East Granville Section	LG3 LR2 A3.5	13 meters, 1 joint 13 meters, 1 joint 160 meters, 17 joints	Modern Continental San Diego Rapid Transit
20	California	South San Francisco Oyster Pt. Flyover	LG-3 LR-2 A3.5	35 feet, 1 joint 35 feet, 1 joint 70 feet, 2 joints	CC Myers Caltrans 2002
21	California	Santa Clarita, I-5 Los Angeles Co.	LG3	180 meters, 4 joints	MCM Caltrans (2003)
22	California	Trabuco Creek, I-5 Orange Co.	LG-3	30 meters, 2 joints	FCI/Eastern Corr. Caltrans (2003)
23	California	Benicia Martinez Br. Approaches & I-680/I-780 Interch.  All Joints are Swivel Type	LG8 LG7 LG4 LG3 A3.5	18 meters, 1 joint 31 meters, 2 joints 48 meters, 2 joints 11 meters, 1 joint 33 meters, 2 joints	CC Myers Caltrans (2003)
24	California	Modesto Co. 9 <sup>th</sup> Street Bridge	LR-2 LG-3 LG-4	82 feet, 1 joint 160 feet, 4 joints 94 feet, 1 joint	MCM Caltrans (2004)
25	California	Trabuco Creek, I-5 #3 Orange Co.	LG-3	30 meters, 2 joints	FCI/Eastern Corr. Caltrans (2004)
26	California	Solano Co. SR37-SR29 Interch City of Vallejo	LR-2 LG-3 A3.5	33 meters, 1 joint 47 meters, 1 joint 101 meters, 6 joints	MCM Caltrans (2004)
27	California	Benicia Martinez Br Mainspan  All Joints are Longitudinal Swivel Type	LX8 LX7 LG4	80 meters, 4 joint 25 meters, 1 joint 25 meters, 1 joint	Kiewit Pacific Caltrans (2005-6)
28	California	San Francisco- Oakland Bay Bridge  All Joints are Swivel Type	LG-8 LG-11 LR-2	37 meters, 4 joints 37 meters, 2 joints 37 meters, 2 joints	C.C. Myers Caltrans (2006)
29	California	Los Angeles Co. SR57/60 Interchange Diamond Bar HOV connector	LR-2 LG-3 LG-4	45 meters, 3 joints 69 meters, 4 joints 31 meters, 2 joints	CC Myers Caltrans (2004-6)
30	California	Moor Park Arroyo Simi Bridge Major freeway north of LA	LG-3	46 feet, 1 joint	Peterson Chase/ Caltrans (2006)

31	California	Russian River Bridge Sonoma Co.	LR-2	82 Feet, 2 joints	C.C. Myers Caltrans (2006)
32	California	I-5 & SR 91 Interchange Orange Co., Irvine (Los Angeles)	LG-4	41 Feet, 1 joint	Peterson Chase Caltrans (2007)
33	California	Foothill Oaks Blvd off-ramp El Dorado Co., Placerville Casino Bridge	LR-2	60 Feet, 2 joints	C.C. Myers Caltrans (2007)
34	California	LA-Alondra Blvd Over I-5 (downtown Los Angeles)	LG-2	300 Ft, 2 joints	CC Myers. Caltrans (2012)
1	Colorado	Proj. IRD(B)70-4(146)	LG-4	66 feet 2 joints	Centric Jones/ CoDOT
1	Connecticut	Windsor Locks	LG-3	104 feet 2 joints	Hull Corporation/ CtDOT (1990)
2	Connecticut	Founders Bridge Hartford	LR-2	224 feet 2 joints	George Tomasso/ CtDOT (1990)
3	Connecticut	East Hartford	LR-2 LG-3	60 feet, 2 joints 30 feet, 1 joint	George Tomasso/ CtDOT (1994)
1	Florida	Edison Bridge North Bridge	LR-2	920 feet 7 joints	Misner-Marine/ FIDOT (1992)
2	Florida	Edison Bridge South Bridge	LR-2	920 feet 8 joints	Misner Marine/ FIDOT (1992)
3	Florida	Roosevelt Bridge	LR-2 LR-4	240 feet, 4 joints 360 feet, 6 joints	Reechi American/ FLDOT (1996)
4	Florida	Hathaway Bridge Panama City, FL	LG6	88 meters, 4 joints	Granite Construction FL-DOT
5	Florida	Duval Co, I-295/ I-95 Jacksonville Bypass	LR5 LR4 LR3 A3.5	32 meters 32 meters 12 meters 476 feet	AMEC Civil Const. FL-DOT (2003)
6	Florida	Clearwater Memorial Br. Clearwater, Florida	LG5	160 feet, 2 joints	PCL Civil FL-DOT (2003)
1	Illinois	Alton Bridge Mississippi River	LR-4	80 feet, 2 joints	Massman Const./ ILDOT (1992)
2	Illinois	Alton Bridge Mississippi River	LR-2	83 feet, 2 joints	Keller/GenCon/ ILDOT (1992),
1	Iowa	Dubuque Bridge	LR-2K LG-3K LG-4K	244 feet, 6 joints 355 feet, 8 joints 148 feet, 4 joints	Shappert Eng'rs/ IaDOT (1990)
2	Iowa	Julian Dubuque Brg.	LR-3K LR-3K LR-5K	112 feet, 3 joints 84 feet, 2 joints 28 feet, 1 joint	Johnson Brothers/ IaDOT (1990)
1	Kentucky	Butler County	LR-3	62 feet	George Stone Co.

				2 joints	KyDOT (1990)
1	Minnesota	Lake Street across Mississippi River	LR-2K LR-3K	124 feet, 2 joints 62 feet, 1 joint	McCrosen Const./ MnDOT (1989)
2	Minnesota	Minneapolis Airport I-394 Interchange	LR-2K	95 feet, 2 joints	Lunda/MnDOT (1989)
3	Minnesota	Bloomington Ferry Grg South Bridge	LG-4	128 feet, 2 joints	Lunda/MnDOT (1993)
4	Minnesota	Bloomington Ferry North Span	LR-4K	136 feet, 2 joints	Lunda/MnDOT (1994)
5	Minnesota	Blatnik Bridge I-535	LR-2K LR-3K	562 feet, 14 joints 485 feet, 15 joints	Johnson Bros./ MnDOT (1993)
1	New Hamp	Manchester-Bedford	LR-2K LG-3K	104 feet, 2 joints 104 feet, 2 joints	E.D.Sweat/ NHDOT (1992)
2	New Hamp	Nashua Ramp H	LR-2	94 feet 2 joints	Bridge Pro E.D. Sweat/ NHDOT (1992)
1	New York	Crown Point Bridge SR17 over Lake Champlain	LG-4	64 feet 2 Joints	Seaward Const./ NYDOT (1988)
2	New York	Wayne County	LR-2 LR-3	43 feet, 1 joint 43 feet, 1 joint	Bridge Pro/ NYDOT (1994)
1	N. Carolina	Forsyth County	LR-2	184 feet 2 joints	Lee Construction/ NCDOT (1990)
2	N. Carolina	Perquimans Co.	LR-2	32 feet 1 joint	T.A. Loving/ NCDOT (1992)
3	N. Carolina	Catawba Co.	LR-2	180 feet 4 joints	Lee Construction/ NCDOT (1994)
4	N. Carolina	Swain Co.	LR-2	70 feet, 2 joints	Simpson Const./ NCDOT (1993)
5	N. Carolina	Proj B-3443 SR1006 ov Cape Fear River Cumberland Co.	LR2	125 feet, 2 joints	Blythe Construction N. Carolina DOT (2004)
6	N. Carolina	Proj I-0306C US15 over I-85 Durham Co.	LR2	51 feet, 1 joint	REA Const/Granite N. Carolina DOT (2004)
7	N. Carolina	Proj R-2000(AC & AB) I-540 & Northern Wake Expressway Wake-Durham Co.	LR2	232 feet, 4 joints	Lane Construction N. Carolina DOT (2005)
8	N. Carolina	Proj C-200793 Charlotte Outer Loop Mechlinburg Co.	LR2	521 feet, 10 joints	Tidewater/Skanska N. Carolina DOT (2005-6)
9	N. Carolina	Proj U-2815C Greensboro Airport Interchange Bryan Boulevard, Guilford Co.	LR2	320 feet, 5 joints	Vecellio & Grogan Const. N. Carolina DOT (2005-7)

1	Ohio	Lorain Co., City Lorain SR 611 over Black River	LR-2	93 feet 1 joint	Great Lakes Const./ OHDOT (1989)
2	Ohio	Summit #996 I-76 over Central St.	LR-2	272 feet 2 joints	The Ruhlin Co./ OHDOT (1994)
3	Ohio	Summit Co. City Akron High Street Viaduct	LR-2	48 feet 1 joint	Great Lakes Const./ OHDOT (2003)
1	Oregon	Terwilliger Blvd. Contract #11200 Pacific Highway, Multanomah Co.	LR-2 LR-3	182 feet, 3 joints 123 feet, 2 joints	Denver Green/ OrDOT (1993)
2	Oregon	Catching Slough Br Contract #11265 Coos Bay, Coos Co.	LR-3	95 feet, 2 joints	Ross Bros./ OrDOT (1994)
1	Rhode Island	Jamestown Bridge T.Y. Lin Int'l	LR-2K LR-3K LR-7K	74 feet 74 feet	Guy F. Atkinson/ RIDOT
1	S. Carolina	Charleston, 1-26	LS-2	104 feet 2 joints	Blythe Const./ SCDOT (1992)
2	S. Carolina	James Island Exp.	LS-2	1500 feet 25 joints	Traylor Brothers/ SCDOT (1992)
3	S. Carolina	S.C. Rte.61	LS-2	260 feet 5 joints	Republic/ SCDOT (1993)
1	Tennessee	Warren, Van Buren & White Co.	LR-2	178 feet 4 joints	Simpson Const./ TnDOT (1993)
2	Tennessee	Knox County I-40 & I-275 Inter.	LR-2 LG-3	259 feet, 5 joints 230 feet	Rodgers Group/ TnDOT (1993)
3	Tennessee	Dyers County Rt.20 Bypass/N. Deer Riv.	LR-2	89 feet 2 joints	Hubbs Contractors/ TnDOT (1994)
4	Tennessee	Bradley-McMinn Co. Rt 2 (US 11) over Hiwassee River	LG-3	142 feet, 4 joints	Simpson Const/ TnDOT (1994)
5	Tennessee	Unicoi County	LR-2 LG-3	180 feet, 4 joints 90 feet, 2 joints	R.R.Dawson/ TnDOT (1994)
6	Tennessee	Scott Co.	LR-2	90 feet, 1 joint	Lockwood, TnDOT (1994)
7	Tennessee	Meigs-Rhea Co	LR-2 LR-5	50 feet, 1 joint 50 feet, 1 joint	McKinnon Bridge/ TnDOT (1995)
8	Tennessee	Rhea-Meigs #3265	LR-2 LR-5	50 feet, 1 joint 50 feet, 1 joint	McKinnon Bridge/ TnDOT (1995)
9	Tennessee	Carter County	LR-3	77 feet, 2 joints	Gen'rl Constructors TnDOT (1996)
10	Tennessee	Shelby County	LR-2	120 feet, 2 joints	C. Hill Contractors TnDOT (1999)
11	Tennessee	Gay Street Br	LR2	100 feet, 4 joints	Ray Bell Const.

Knoxville, TN				TnDOT (2002)	
12	Tennessee	Roane Co. SR-11 ov Clinch River	LR-2	140 feet, 2 joints	Simpson Construction TN-DOT (2004)
1	Washington	Bellevue Access	LG-2 LG-3	27 feet, 1 joint 27 feet, 1 joint	Max J. Kuney/ WaDOT (1994)
1	Wisconsin	Chippewa County	LR-3	164 feet 2 joints	Edward Kraemer/ WiDOT (1994)
1	Taiwan	Mucha Viaduct, near Zoo	LG3 2 <sup>nd</sup> National Freeway	140 meters	BES Engineering 1994
2	Taiwan	Tanan Contract 2  All Joints are Swivel Type	LG5 LG7 LG8	54 meters 47 meters 23 meters	Pan Asia 1996
3	Taiwan	E 401-1/E 402-2	LG3 LG4 LG5	100 meters 100 meters 250 meters	Chiu Tai General 1997-98
4	Taiwan	East West Freeway E405	LG3 LG4 LG5 LG6	42 meters, 4 joints 246 meters, 21 joints 55 meters, 5 joints 11 meters, 1 joint	Chiu Tai General 1998
5	Taiwan	East West Freeway E 811	LR2 LG3 LG4	22 meters 65 meters 87 meters	Kung Chen 1998
6	Taiwan	East West Freeway E303	LG5 LG4 LG3	60 meters, 4 joints 120 meters, 8 joints 150 meters, 12 joints	BES Engineering 1998
7	Taiwan	2nd National Freeway C 368	LG5	60 meters, 4 joints	CEC Engineering 1999
8	Taiwan	2nd National Freeway C 301  All Joints are Swivel Type	LX3 LX4 LX5 LX6	58 meters, 5 joints 39 meters, 4 joints 60 meters, 5 joints 45 meters, 4 joints	Pacific Construction 1999
9	Taiwan	MacArthur Freeway	LR2 LG4	197 meters 25 meters	CEC Engineering 1999
10	Taiwan	Nan Hu Bridge	LR2	45 meters, 4 joints	CEC Engineering 2000
11	Taiwan	Nan Hu Bridge	LG4 LG3	105 meters, 10 joints 64 Meters, 6 joints	CEC Engineering 2000
12	Taiwan	E641	LR2 LG3 LG4	22 meters, 2 joints 22 Meters, 2 joints 22 meters, 2 joints	CEC Engineering 2001
13	Taiwan	C356  All Joints are Swivel Type	LG4 LG5 LG9	124 meters, 8 joints 30 meters, 2 joints 30 meters, 2 joints	Sanfield Pacific 2001
14	Taiwan	E 405, Final Phase 1 & 2	LG4 LG5	60 meters, 6 joints 60 meters, 6 joints	Chiu Tai General 2001

15	Taiwan	Tou Chen Br.	LG3 LG4	57 meters 80 meters	Freyssinet Taiwan
16	Taiwan	C 330  Swivel Type	LG4 LG5 LG6	153 meters, 10 joints 153 meters, 8 joints 32 meters, 4 joints	Sanfield Pacific 2001
17	Taiwan	Nan Ho Bridge	LR2 A5.5	69 meters, 9 joints 18 meters, 2 joints	Sanfield Pacific 2001
18	Taiwan	Tai Yi Bridge	LR-2	120 meters, 10 joints	Sanfield Pacific 2003-04
19	Taiwan	C 326	LG5 LG4 LG3 LR2	46 meters 307 meters 37 meters 7.5 meters	Sanfield Pacific 2003-04
20	Taiwan	C 383B	LG4	624 meters	Sanfield Pacific 2003-4
21	Taiwan	C 327	LG4	658 meters, 36 joints	Sanfield Pacific 2004
1	China	Guangzhou Ring Freeway (1 <sup>st</sup> Phase)	LG3 LG4	85 meters, 4 joints 45 meters, 2 joints	China Railway Construction Co. (1998)
2	China	Guangzhou Ring Freeway (2 <sup>nd</sup> Phase)	LG3 LG4 Major freeway in Guangzhou	85 meters, 4 joints 45 meters, 2 joints	China Railway Construction Co. (1998)
3	China	Je He Expressway  All Joints are Swivel Type	LG-2	136 meters, 10 joints	Shandong Machinery. Dezhou Tonghe (2007)
4	China	Yang Ji Expressway  All Joints are Swivel Type	LG-2	300 meters, 30 joints	Shandong Machinery. Dezhou Tonghe (2009)
5	China	Xinfu Debin Exwy All Joints are Swivel Type	LG-2	4000 meters, 142 joints	Shandong Machinery. Dezhou Tonghe (2010-11)
6	China	Xinfu Qinglin Exwy All Joints are Swivel Type	LG-2	4500 meters, 165 joints	Shandong Machinery. Dezhou Tonghe (2010-11)
7	China	Yangtze Exwy All Joints are Swivel Type	LG-2	5000 meters, 142 joints	Shandong Machinery. Dezhou Tonghe (2011-12)
8	China	Yangtze Exwy All Joints are Swivel Type	LG-2	5500 meters, 165 joints	Shandong Machinery. Dezhou Tonghe (2011-12)
9	China	Shaanxi Exwy All Joints are Swivel Type	LG-2	5500 meters, 165 joints	Shandong Machinery. Dezhou Tonghe (2013)
1	India	Approaches to R.O.B. Jawala Flour Mill	LG2	20 meters, 2 joints	P.D. Agarwal Infrastructure (2010)
2	India	Outer Ring Road Phase 2 Patancheru	LG2	300 meters, 30 joints	Ramky (JV) (2012)
3	India	Tapi River Cable Stay Br.	LG2	47 meters, 4 joints	Gammon India (2012)
4	India	Narshima Rao	LG2	70 meters, 7 joints	Simplex Infrastructures

## Expressway

(2013)

1	Indonesia	Mahakam 2 Br.	LG4	9 meters, 1 joint	DSI International
2	Indonesia	Pasupati Bridge	LR2 LG3 LG4 LG5	60 Meters; 8 joints 22 Meters; 2 joints 44 Meters; 4 joints 66 Meters; 6 joints	Esco Tech (Korea)
1	Thailand	Suphanburi Br.	LR2	50 meters, 4 joints	Advance Polymer
1	Bangladesh	Rupsa Bridge All Joints are Swivel Type	LG8	28 meters, 2 joints	Shimizu – ITD JV
2	Bangladesh	Mohammed Hanif Flyover	LG2	312 meters, 31 joints	Simplex Infrastructures (2013)
1	UAE	Gateway Bridge Palm Jumeirah #1 Dubai, UAE H2L2/Leonhardt & Partners/Parsons Design All Joints are Swivel Type	LG7 skewed LG7	60 meters, 2 joints 50 meters, 2 joints	Six Construct Nakheel Develop.(2005)
1	Yemen	Capital Highway All Joints are Swivel Type	LG2 LG3 LG4	100 Meters; 10 joints 80 Meters; 8 joints 40 Meters; 4 joints	Hawk International (2009)
2	Yemen	Al Reyassah-al Siteen	LG2	64 Meters, 6 joints	Hawk International (2013)
1	Nova Scotia	Dartmouth Bridge	LX-14	160 Feet, 2 joints	Kiewit Canada

***TechStar Modular Expansion Joints under current production***

NO.	STATE	PROJECT	JOINT TYPE	FOOTAGE	CONTRACTOR
35	California	Willits Bypass SR101-Mendocino Co.	LG-2, 4,5	300 Ft, 8 joints Caltrans (2013)	FCI-Flatiron
36	California	Moor Park Simi Arroyo Ronald Regan Frwy, Ventura Co.	LG-3 & 4,	130 Ft, 3 joints	Peterson Chase Caltrans (2013)
1	Qatar	Lusail P003	LG2 & 3	314m	Hyundai (2014)
2	Qatar	Al Wahda & Onaiza	LG2, 3 & 4	98m	Jefferson (2014)
1	Kuwait	RA166	LG (2-6)	1000m	Arab Contractors (2015-)
2	Kuwait	RA167	LG (2-6)	750m	ROBT JV (2015-)



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