



Certificate of Compliance

This certificate is issued for the following:

Seismic Sway Braces for Pipe, Tubing and Conduit

Models CSB, CSBBRP, CSBQG, CSBQIKCL, CSBSTU, CSBEZU, CSBBARJ, CSBBRS1, CSBBRS2, CSBBRS3, CSBBC, CSBIB, CSBUNIV, CSBMA, CSBS1, CSBS1A, CSBS2, CSBS3, CSBS4, CSBS5, CSBU1, CSBU2, CSBU58, CSBUS1CSBUS2, CSBUS1PA, CSBUS2PA

(see attached listing and load ratings)

Prepared for:

ERICO International Corporation
34600 Solon Rd
Solon, Ohio 44139, USA

Approval Standard: FM 1950 (September 2013)

Approval Identification: PR464252

Approval Granted: 30 March 2023

To verify the availability of the Approved product, please refer to www.approvalguide.com

Said Approval is subject to satisfactory field performance, continuing Surveillance Audits, and strict conformity to the constructions as shown in the Approval Guide, an online resource of FM Approvals.

David B. Fuller
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Model No	Description	Orientation	Run Pipe Nominal Size, in	Run Pipe Reference	Horizontal Load Ratings Installation Angle 30°-44°		Horizontal Load Ratings Installation Angle 45°-59°		Horizontal Load Ratings Installation Angle 60°-74°		Horizontal Load Ratings Installation Angle 75°-90°		Remarks
					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSB	Pipe Clamp	Lateral	1	LW, 10, 40	1490	(6620)	2110	(9380)	2580	(11470)	2900	(12890)	a, c, d, e
CSB	Pipe Clamp	Lateral	1	LW, 10, 40	1040	(4620)	1470	(6530)	1800	(8000)	2010	(8940)	c, d, e, m
CSB	Pipe Clamp	Lateral	1-1/4	LW, 10, 40	1380	(6130)	1960	(8710)	2400	(10670)	2690	(11960)	a, c, d, e
CSB	Pipe Clamp	Lateral	1-1/4	LW, 10, 40	1040	(4620)	1470	(6530)	1800	(8000)	2010	(8940)	c, d, e, m
CSB	Pipe Clamp	Lateral	1-1/2	LW, 10, 40	1380	(6130)	1960	(8710)	2400	(10670)	2690	(11960)	a, c, d, e
CSB	Pipe Clamp	Lateral	1-1/2	LW, 10, 40	1580	(7020)	2240	(9960)	2740	(12180)	3070	(13650)	c, d, e, m
CSB	Pipe Clamp	Lateral	2	LW, 10, 40	1380	(6130)	1960	(8710)	2400	(10670)	2690	(11960)	a, c, d, e
CSB	Pipe Clamp	Lateral	2	LW, 10, 40	1580	(7020)	2240	(9960)	2740	(12180)	3070	(13650)	c, d, e, m
CSB	Pipe Clamp	Lateral	2-1/2	LW, 10, 40	1440	(6400)	2030	(9020)	2490	(11070)	2790	(12410)	a, c, d, e
CSB	Pipe Clamp	Lateral	2-1/2	LW, 10, 40	1620	(7200)	2300	(10230)	2820	(12540)	3160	(14050)	c, d, e, m
CSB	Pipe Clamp	Lateral	3	LW, 10, 40	1390	(6180)	1970	(8760)	2420	(10760)	2710	(12050)	a, c, d, e
CSB	Pipe Clamp	Lateral	3	LW, 10, 40	1520	(6760)	2160	(9600)	2640	(11740)	2960	(13160)	c, d, e, m
CSB	Pipe Clamp	Lateral	4	LW, 10, 40	1390	(6180)	1970	(8760)	2420	(10760)	2710	(12050)	a, c, d, e
CSB	Pipe Clamp	Lateral	4	LW, 10, 40	1520	(6760)	2160	(9600)	2640	(11740)	2960	(13160)	c, d, e, m
CSB	Pipe Clamp	Lateral	5	LW, 10, 40	1390	(6180)	1970	(8760)	2420	(10760)	2710	(12050)	a, c, d, e
CSB	Pipe Clamp	Lateral	5	LW, 10, 40	1520	(6760)	2160	(9600)	2640	(11740)	2960	(13160)	c, d, e, m
CSB	Pipe Clamp	Lateral	6	LW, 10, 40	1460	(6490)	2060	(9160)	2520	(11200)	2830	(12580)	a, c, d, e
CSB	Pipe Clamp	Lateral	6	LW, 10, 40	1570	(6980)	2220	(9870)	2720	(12090)	3050	(13560)	c, d, e, m
CSB	Pipe Clamp	Lateral	8	0.188, 40	1330	(5910)	1880	(8360)	2300	(10230)	2580	(11470)	a, c, d, f
CSB	Pipe Clamp	Lateral	8	0.188, 40	1410	(6270)	2000	(8890)	2450	(10890)	2740	(12180)	c, d, f, m
CSB	Pipe Clamp	Lateral	10	0.188, 40	1330	(5910)	1880	(8360)	2300	(10230)	2580	(11470)	a, c, d, f
CSB	Pipe Clamp	Lateral	10	0.188, 40	1410	(6270)	2000	(8890)	2450	(10890)	2740	(12180)	c, d, f, m
CSB	Pipe Clamp	Lateral	12	0.188, 40	1680	(7470)	2370	(10540)	2910	(12940)	3260	(14500)	a, c, d, f
CSB	Pipe Clamp	Lateral	12	0.188, 40	1460	(6490)	2070	(9200)	2530	(11250)	2840	(12630)	c, d, f, m
CSB	Pipe Clamp	Longitudinal	1	LW, 10, 40	1290	(5730)	1240	(5510)	1260	(5600)	1400	(6220)	a, c, d, e





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Model No	Description	Orientation	Run Pipe Nominal Size, in	Run Pipe Reference	Horizontal Load Ratings Installation Angle 30°-44°		Horizontal Load Ratings Installation Angle 45°-59°		Horizontal Load Ratings Installation Angle 60°-74°		Horizontal Load Ratings Installation Angle 75°-90°		Remarks
					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSB	Pipe Clamp	Longitudinal	1	LW, 10, 40	660	(2930)	580	(2570)	640	(2840)	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	1-1/4	LW, 10, 40	1290	(5730)	1240	(5510)	1260	(5600)	1400	(6220)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	1-1/4	LW, 10, 40	660	(2930)	580	(2570)	640	(2840)	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	1-1/2	LW, 10, 40	1200	(5330)	1860	(8270)	2180	(9690)	2250	(10000)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	1-1/2	LW, 10, 40	1320	5870	1340	5960	1620	7200	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	2	LW, 10, 40	1200	(5330)	1820	(8090)	2180	(9690)	2250	(10000)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	2	LW, 10, 40	890	3950	1220	5420	1830	8140	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	2-1/2	LW, 10, 40	1320	(5870)	1820	(8090)	2190	(9740)	2500	(11120)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	2-1/2	LW, 10, 40	890	3950	1220	5420	1830	8140	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	3	LW, 10, 40	1300	(5780)	1790	(7960)	2190	(9740)	2500	(11120)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	3	LW, 10, 40	890	3950	1220	5420	1830	8140	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	4	LW, 10, 40	1300	(5780)	1790	(7960)	2190	(9740)	2500	(11120)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	4	LW, 10, 40	1340	(5960)	1850	(8220)	2350	(10450)	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	5	LW, 10, 40	1300	(5780)	1790	(7960)	2190	(9740)	2500	(11120)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	5	LW, 10, 40	1340	(5960)	1850	(8220)	2350	(10450)	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	6	LW, 10, 40	1410	(6270)	1950	(8670)	2350	(10450)	2680	(11920)	a, c, d, e
CSB	Pipe Clamp	Longitudinal	6	LW, 10, 40	1540	(6850)	1850	(8220)	2230	(9910)	NR	NR	c, d, e, m
CSB	Pipe Clamp	Longitudinal	8	0.188, 40	1400	(6220)	1920	(8540)	2350	(10450)	2640	(11740)	a, c, d, f
CSB	Pipe Clamp	Longitudinal	8	0.188, 40	1270	(5640)	1750	(7780)	2160	(9600)	NR	NR	c, d, f, m
CSB	Pipe Clamp	Longitudinal	10	0.188, 40	1400	(6220)	1920	(8540)	2350	(10450)	2640	(11740)	a, c, d, f
CSB	Pipe Clamp	Longitudinal	10	0.188, 40	1270	(5640)	1750	(7780)	2160	(9600)	NR	NR	c, d, f, m
CSB	Pipe Clamp	Longitudinal	12	0.188, 40	1600	(7110)	1860	(8270)	2240	(9960)	2590	(11520)	a, c, d, f
CSB	Pipe Clamp	Longitudinal	12	0.188, 40	1390	(6180)	1750	(7780)	2110	(9380)	NR	NR	c, d, f, m
CSBBRP	Pipe Clamp	Lateral	1, 1-1/4	LW, 10, 40	120	(535)	170	(755)	210	(935)	230	(1025)	c, d, e, g
CSBBRP	Pipe Clamp	Lateral	1, 1-1/4	LW, 10, 40	140	(625)	190	(845)	240	(1070)	270	(1200)	c, d, e, h
CSBBRP	Pipe Clamp	Lateral	1-1/2, 2	LW, 10, 40	140	(625)	190	(845)	240	(1070)	270	(1200)	c, d, e, g





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Model No	Description	Orientation	Run Pipe Nominal Size, in	Run Pipe Reference	Horizontal Load Ratings Installation Angle 30°-44°		Horizontal Load Ratings Installation Angle 45°-59°		Horizontal Load Ratings Installation Angle 60°-74°		Horizontal Load Ratings Installation Angle 75°-90°		Remarks
					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSBBRP	Pipe Clamp	Lateral	1-1/2, 2	LW, 10, 40	110	(490)	150	(665)	190	(845)	210	(935)	c, d, e, h
CSBQG	Pipe Clamp	Lateral	2-1/2	LW, 10, 40	1410	(6270)	2000	(8895)	2450	(10900)	2740	(12190)	b, c, d, e, i
CSBQG	Pipe Clamp	Lateral	3, 4	LW, 10, 40	1190	(5295)	1680	(7475)	2060	(9163)	2300	(10230)	b, c, d, e
CSBQG	Pipe Clamp	Lateral	5, 6	LW, 10	870	(3870)	1230	(5470)	1510	(6715)	1690	(7515)	b, d, e
CSBQG	Pipe Clamp	Lateral	5, 6	40	970	(4315)	1370	(6095)	1680	(7475)	1870	(8320)	b, c
CSBQG	Pipe Clamp	Lateral	8	0.188, 40	790	(3515)	1110	(4940)	1360	(6050)	1520	(6760)	b, c, f
CSBQIKCL	Pipe Clamp	Lateral	1, 1-1/4, 1-1/2	LW	290	(1290)	410	(1830)	495	(2200)	550	(2445)	b, e
CSBQIKCL	Pipe Clamp	Lateral	1, 1-1/4, 1-1/2	10	150	(665)	210	(935)	280	(1245)	315	(1400)	b, d
CSBQIKCL	Pipe Clamp	Lateral	1, 1-1/4, 1-1/2	40	475	(2115)	665	(2960)	825	(3670)	925	(4115)	b, c
CSBQIKCL	Pipe Clamp	Lateral	2, 2-1/2, 3, 3-1/2	LW	390	(1735)	550	(2445)	670	(2980)	750	(3335)	b, e
CSBQIKCL	Pipe Clamp	Lateral	2, 2-1/2, 3, 3-1/2	10	350	(1555)	500	(2225)	620	(2760)	690	(3070)	b, d
CSBQIKCL	Pipe Clamp	Lateral	2, 2-1/2, 3, 3-1/2	40	490	(2180)	690	(3070)	850	(3780)	950	(4225)	b, c
CSBQIKCL	Pipe Clamp	Lateral	4	LW	470	(2090)	660	(2935)	810	(3605)	910	(4050)	b, e
CSBQIKCL	Pipe Clamp	Lateral	4	10	510	(2270)	730	(3245)	890	(3960)	990	(4405)	b, d
CSBQIKCL	Pipe Clamp	Lateral	4	40	500	(2225)	710	(3160)	870	(3870)	970	(4315)	b, c
CSBSTU	Pipe Clamp	Lateral	1, 1-1/4, 1-1/2	LW, 10, 40	860	(3825)	1220	(5425)	1500	(6670)	1670	(7430)	a, c, d, e
CSBSTU	Pipe Clamp	Longitudinal	1, 1-1/4, 1-1/2	LW, 10, 40	970	(4315)	720	(3200)	860	(3825)	960	(4270)	a, c, d, e
CSBSTU	Pipe Clamp	Lateral	2, 2-1/2, 3	LW, 10, 40	1530	(6805)	2160	(9610)	2650	(11790)	2960	(13165)	a, c, d, e
CSBSTU	Pipe Clamp	Longitudinal	2, 2-1/2, 3	LW, 10, 40	870	(3870)	690	(3070)	830	(3690)	930	(4136)	a, c, d, e
CSBSTU	Pipe Clamp	Lateral	4, 5	LW, 10, 40	1570	(6985)	2220	(9875)	2720	(12100)	3030	(13480)	a, c, d, e
CSBSTU	Pipe Clamp	Longitudinal	4, 5	LW, 10, 40	1550	(6895)	1390	(6185)	1680	(7475)	1870	(8320)	a, c, d, e





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Model No	Description	Orientation	Run Pipe Nominal Size, in	Run Pipe Reference	Horizontal Load Ratings Installation Angle 30°-44°		Horizontal Load Ratings Installation Angle 45°-59°		Horizontal Load Ratings Installation Angle 60°-74°		Horizontal Load Ratings Installation Angle 75°-90°		Remarks
					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSBSTU	Pipe Clamp	Lateral	6	LW, 10, 40	1980	(8805)	2810	(12500)	3440	(15300)	3840	(17080)	a, c, d, e
CSBSTU	Pipe Clamp	Longitudinal	6	LW, 10, 40	1470	(6540)	1170	(5205)	1410	(6270)	1570	(6985)	a, c, d, e
CSBSTU	Pipe Clamp	Lateral	8, 10	0.188, 40	2040	(9075)	2890	(12855)	3540	(15745)	3950	(17570)	a, c, f
CSBSTU	Pipe Clamp	Longitudinal	8, 10	0.188, 40	1200	(5340)	1700	(7560)	2090	(9295)	2330	(10365)	a, c, f
CSBEZU	Pipe Clamp	Lateral	1, 1-1/4, 1-1/2	LW, 10, 40	860	(3825)	1220	(5425)	1500	(6670)	1670	(7430)	a, c, d, e
CSBEZU	Pipe Clamp	Longitudinal	1, 1-1/4, 1-1/2	LW, 10, 40	390	(1735)	550	(2445)	670	(2980)	750	(3335)	a, c, d, e
CSBEZU	Pipe Clamp	Lateral	2	LW, 10, 40	1530	(6805)	2160	(9610)	2650	(11790)	2960	(13165)	a, c, d, e
CSBEZU	Pipe Clamp	Longitudinal	2	LW, 10, 40	520	(2315)	690	(3070)	830	(3690)	930	(4136)	a, c, d, e
CSBEZU	Pipe Clamp	Lateral	2-1/2, 3	LW, 10, 40	950	(4220)	1350	(6000)	1650	(7330)	1840	(8180)	a, c, d, e
CSBEZU	Pipe Clamp	Longitudinal	2-1/2, 3	LW, 10, 40	1000	(4440)	1360	(6040)	1470	(6530)	1620	(7200)	a, c, d, e
CSBEZU	Pipe Clamp	Lateral	4, 5	LW, 10, 40	1400	(6220)	1990	(8850)	2430	(10800)	2720	(12090)	a, c, d, e
CSBEZU	Pipe Clamp	Longitudinal	4, 5	LW, 10, 40	1360	(6040)	1870	(8310)	2270	(10090)	2510	(11160)	a, c, d, e
CSBEZU	Pipe Clamp	Lateral	6	LW, 10, 40	1650	(7330)	2330	(10360)	2850	(12670)	3180	(14140)	a, c, d, e
CSBEZU	Pipe Clamp	Longitudinal	6	LW, 10, 40	1700	(7560)	2340	(10400)	2690	(11960)	2700	(12010)	a, c, d, e
CSBBARJ	Beam Clamp	Lateral	1/4-1/2	N/A	1740	(7740)	1710	(7605)	2060	(9165)	2300	(10230)	a
CSBBARJ	Beam Clamp	Longitudinal	1/4-1/2	N/A	1410	(6270)	2110	(9385)	2540	(11300)	2830	(12590)	a
CSBBS1	Structure Attached	N/A	Steel-12 Ga. 0.1094-0.50	N/A	220	(980)	310	(1380)	210	(935)	210	(935)	g
CSBBS1	Structure Attached	N/A	Steel-12 Ga. 0.1094-0.50	N/A	210	(935)	290	(1290)	200	(890)	220	(980)	h
CSBBS2	Structure Attached	N/A	N/A	N/A	210	(935)	290	(1290)	200	(890)	210	(935)	g, h
CSBBS3	Structure Attached	N/A	N/A	N/A	320	(1425)	310	(1380)	190	(845)	210	(935)	k



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					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSBBC	Beam Clamp	Lateral	0.25-0.75	N/A	1190	(5295)	1680	(7475)	1160	(5160)	1280	(5695)	a
CSBBC	Beam Clamp	Longitudinal	0.25-0.75	N/A	1620	(7205)	1710	(7605)	1010	(4495)	1110	(4940)	a
CSBIB	Beam Clamp	Lateral	0.25-1-1/4 inch Thick (6.3-31 Thick) 4-18 inch wide (100-455 wide)	N/A	1620	(7205)	2300	(10230)	2820	(12545)	3140	(13965)	a
CSBIB	Beam Clamp	Longitudinal	0.25-1-1/4 inch Thick (6.3-31 Thick) 4-18 inch wide (100-455 wide)	N/A	1620	(7205)	1710	(7605)	1010	(4495)	1110	(4940)	a
CSBUNIV	Structure Attached	N/A	N/A	N/A	1620	(7205)	2300	(10230)	2820	(12545)	3140	(13965)	a
CSBMA	Structure Attached	N/A	N/A	N/A	3290	(14630)	4520	(20100)	5540	(24640)	6200	(27570)	a
CSBS1	Structure Attached	Lateral	1/4-3/4inch	N/A	850	(3780)	1780	(7910)	2770	(12320)	2840	(12630)	a
CSBS1	Structure Attached	Longitudinal	1/4-3/4	N/A	880	(3910)	1430	(6360)	2020	(8980)	2410	(10720)	a
CSBS1A	Structure Attached	Lateral	1/4-3/4	N/A	850	(3780)	1780	(7910)	2770	(12320)	2840	(12630)	a
CSBS1A	Structure Attached	Longitudinal	1/4-3/4	N/A	880	(3910)	1430	(6360)	2020	(8980)	2410	(10720)	a
CSBS2	Structure Attached	Lateral	3/4-1-1/4	N/A	1220	(5420)	2140	(9510)	2580	(11470)	2870	(12760)	a
CSBS2	Structure Attached	Longitudinal	3/4-1-1/4	N/A	1100	(4890)	1820	(8090)	2190	(9740)	2680	(11920)	a



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					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSBS3	Structure Attached	Lateral	1/4-3/4 inch (6-19) Width: 4-8.5 inch (100-215)	N/A	1180	(5240)	2210	(9830)	2830	(12580)	2940	(13070)	a
CSBS3	Structure Attached	Longitudinal	1/4-3/4 inch (6-19) Width: 4-8.5 inch (100-215)	N/A	820	(3640)	1380	(6130)	2080	(9250)	3010	(13380)	a
CSBS4	Structure Attached	Lateral	1/4-3/4 inch (6-19) Width: 4-14.5 inch (100-365)	N/A	1180	(5240)	2210	(9830)	2830	(12580)	2940	(13070)	a
CSBS4	Structure Attached	Longitudinal	1/4-3/4 inch (6-19) Width: 4-14.5 inch (100-365)	N/A	820	(3640)	1380	(6130)	2080	(9250)	3010	(13380)	a
CSBS5	Structure Attached	Lateral	3/4-1-1/4 inch (19-31) Width: 4-18 inch (100-455)	N/A	1220	(5420)	2140	(9510)	2580	(11470)	2870	(12760)	a
CSBS5	Structure Attached	Longitudinal	3/4-1-1/4 inch (19-31) Width: 4-18 inch (100-455)	N/A	1100	(4890)	1820	(8090)	2190	(9740)	2680	(11920)	a
CSBU1	Structure Attached	N/A	N/A	N/A	1690	(7510)	2210	(9830)	2660	(11830)	3090	(13740)	a



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					lb	(N)	lb	(N)	lb	(N)	lb	(N)	
CSBU2	Structure Attached	N/A	N/A	N/A	1480	(6580)	2290	(10180)	2860	(12720)	3090	(13740)	a
CSBU58	Structure Attached	N/A	N/A	N/A	1480	(6580)	2210	(9830)	2660	(11830)	3090	(13740)	a
CSBU1	Structure Attached	N/A	N/A	N/A	1450	(6440)	1830	(8140)	1870	(8310)	2070	(9200)	m
CSBU2	Structure Attached	N/A	N/A	N/A	1450	(6440)	1830	(8140)	1870	(8310)	2070	(9200)	m
CSBU1	Structure Attached	N/A	N/A	N/A	1000	(4440)	1380	(6130)	1830	(8140)	2030	(9020)	n
CSBU2	Structure Attached	N/A	N/A	N/A	1000	(4440)	1380	(6130)	1830	(8140)	2030	(9020)	n
CSBUS1	Structure Attached	N/A	N/A	N/A	2010	(8940)	2840	(12630)	3420	(15210)	3810	(16940)	m
CSBUS2	Structure Attached	N/A	N/A	N/A	2010	(8940)	2840	(12630)	3420	(15210)	3810	(16940)	m
CSBUS1PA	Structure Attached	N/A	N/A	N/A	1160	(5170)	1860	(8290)	1860	(8290)	1680	(7470)	m
CSBUS2PA	Structure Attached	N/A	N/A	N/A	1160	(5170)	1860	(8290)	1860	(8290)	1680	(7470)	m



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