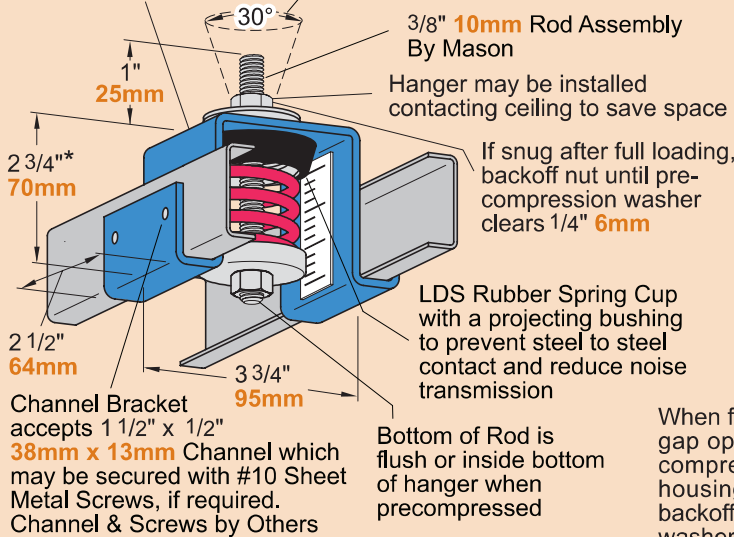


30CSCH

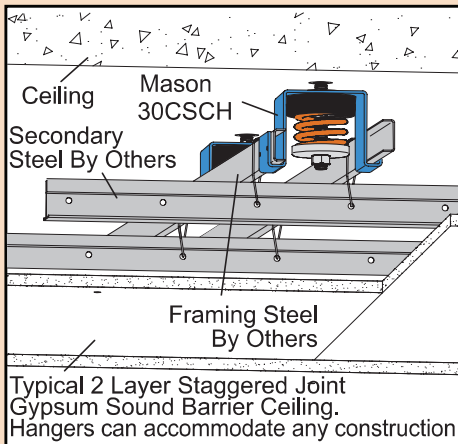
Compact Spring Ceiling Hanger with Precompressed 30 Series Springs

Housing and Spring are Powder Coated Steel

Clearance provided so rod can swing 30° without contacting bushing and reducing efficiency.



* Hangers are precompressed to 70% of assigned load. These overall heights are when fully loaded. For longer lengths, consult factory.



LDS stands for Low Dynamic Stiffness AASHTO Bridge Bearing Natural Rubber to minimize noise and vibration transmission. Maximum Dynamic Stiffness is 1.4.

AASHTO BRIDGE BEARING NATURAL RUBBER SPECIFICATIONS

ORIGINAL PHYSICAL PROPERTIES	TESTED FOR AGING			COMPRESSION SET	LONG TERM CREEP
	OVEN AGING(70hrs/158°F)	OZONE			
Tests: ASTM D-2240 & D-412	ASTM D-573	ASTM D-1149	ASTM D-395	ISO8013	
Duro-Tensile Elongat. meter Strength at Break Shore A (min) (min)	Hard-Tensile Elongat. ness Strength at Break (max) (max) (max)	25 pphm in air by Vol. 20% Strain 100°F	22hrs/158°F Method B	168hrs	
40±5 2000 psi 500%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	
50±5 2250 psi 450%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	
60±5 2250 psi 400%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	
70±5 2250 psi 300%	+10% -25% -25%	No Cracks	25%(max)	5%(max)	

30CSCH SPECIFICATION

Ceiling Hangers shall have a steel frame formed to minimize height by supporting 1 1/2 x 1/2 ceiling channels on either side of a 1" nominal deflection centered spring. The spring shall be seated in an AASHTO Bridge Bearing Quality LDS Rubber Cup with a rubber bushing extending through the frame to prevent metal to metal contact between the steel suspension rod and the frame. Rubber Dynamic Stiffness shall not exceed 1.4. The ID of the bushing must allow a 30° swing from side to side before rod contact. Springs shall be factory precompressed to 70% of the assigned deflection. Hangers shall be Mason Industries 30CSCH. Submittals shall confirm AASHTO Quality and Dynamic Stiffness in addition to deflection.

W30SM

Side of Joist, or Wall, Hanger with Precompressed 30 Series Spring and Eye Bolt

Secure with two (2) 16D 4mm x 89mm Nails. Install nails at opposing angles

Or Secure with two (2) lag bolts 3/8" x 1 3/8" min 10mm x 44mm min or through bolts, nuts & washers

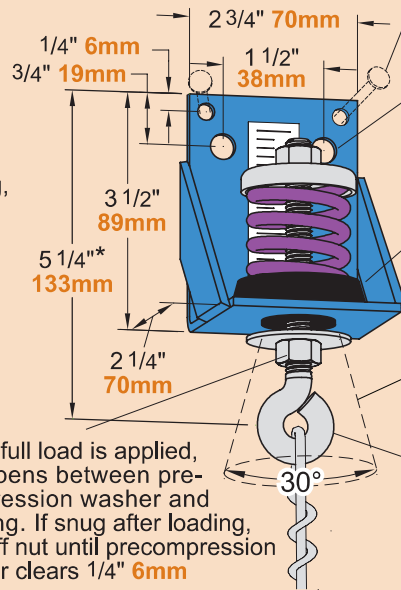
LDS Rubber Spring Cup with projecting bushing to prevent rod contact

Clearance provided so rod can swing 30° without contacting bushing and reducing efficiency.

Eye Bolts By Mason Use 12 Ga wire

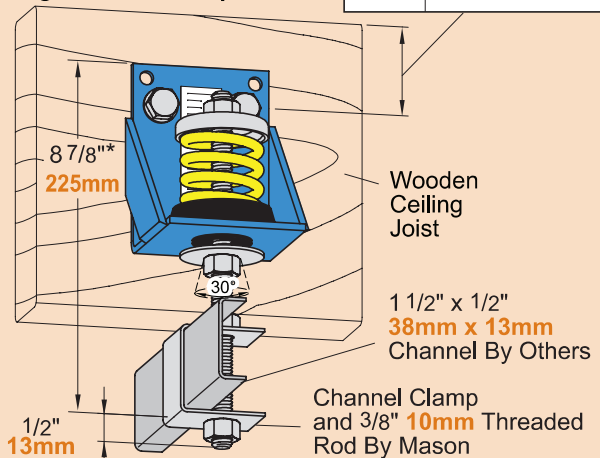
Hanger Installation Location based on Dimensional Lumber sizes

6	1 1/4"	32mm
8	1 1/4"	32mm
2 x 10	3 1/4"	83mm
12	5 1/4"	133mm



30SMCC

Side of Joist, or Wall, Hanger with Precompressed 30 Series Springs and Ceiling Channel Clamp



RATINGS Standard sizes shown. For heavier capacities, consult factory.

Type	Size	Rated Capacity lbs	Rated Capacity kg	Rated Defl. ¹ in	Rated Defl. ¹ mm	Spring Constant lbs/in	Spring Constant kg/mm	Spring Color/Stripe
30CSCH-	12	12	5	1.25	32	10	0.18	Orange
	23	23	10	1.30	33	18	0.30	Brown
	33	33	15	1.10	28	30	0.54	Red
W30SM-	54	54	24	1.20	30	45	0.80	White
	76	76	34	1.02	25	73	1.36	Black
30SMCC-	113	113	51	1.00	25	113	2.04	Yellow
	130	130	59	1.00	25	130	2.36	Purple
	175	175	79	1.00	25	175	3.16	Silver
	210	210	95	1.00	25	210	3.80	Blue

¹All springs have additional travel to solid equal to 50% of Rated Deflection.

W30SM or 30SMCC SPECIFICATION

Ceiling Hangers shall consist of a side attachment steel angle gusseted on each side to prevent bending. The gussets shall protect a 1" nominal deflection steel spring seated in a Bridge Bearing Quality LDS Rubber Cup with a rubber bushing extending through the horizontal leg to prevent metal to metal contact between the steel suspension rod and the frame. Rubber Dynamic Stiffness shall not exceed 1.4. The ID of the bushing must allow a 30° swing from side to side before rod contact. Springs shall be factory precompressed to 70% of the assigned deflection. Hangers shall be Mason Industries W30SM for ceiling wire attachment or 30SMCC if 1 1/2 x 1/2 ceiling channels are used. Submittals shall confirm AASHTO Quality and Dynamic Stiffness in addition to spring deflection.