MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
FAX 631/348-0279
Info@Mason-Ind.com

2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
714/535-2727
FAX 714/535-5738
Info@MasonAnaheim.com

www.Mason-Ind.com

JOB NAME _____

CUSTOMER _____

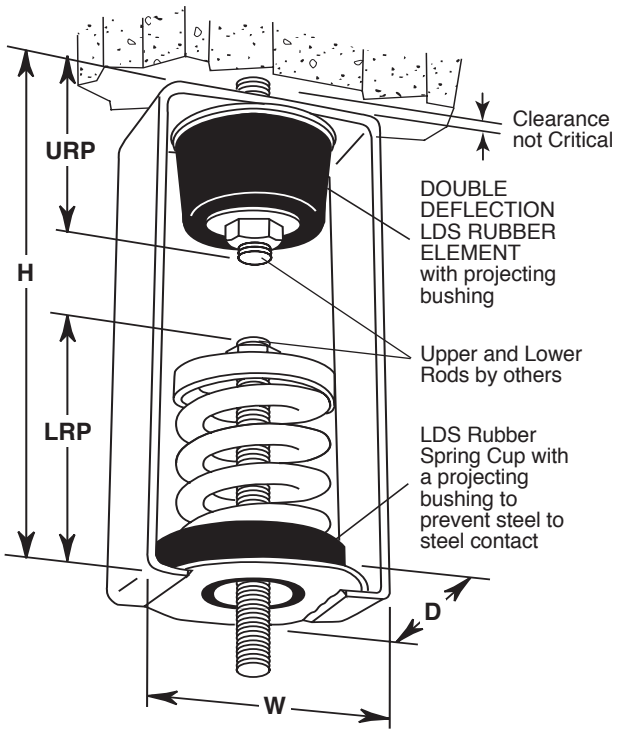
CUSTOMER P.O. _____

MASON M. _____

DWG No. _____

DNHS

1" 25mm Deflection
X & A Series
Spring Hangers



LDS stands for **L**ow **D**ynamic **S**tiffness 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
Durometer Shore A	Tensile Strength (min)	Elongat. at Break (min)	Hardness (max)	Tensile Strength (max)	Elongat. at Break (max)	25 pphm in air by Vol. 20% Strain 100°F	22hrs/158°F Method B	168 hrs
60±5	2250 psi	400%	+10%	-25%	-25%	No Cracks	25%(max)	5%(max)

TYPE DNHS RATINGS

Type and Size	Rated Capacity (lbs)	(kg)	Rated Deflection† (in)	(mm)	Spring Constant†† (lbs/in)	(kg/mm)	Avg. Defl. LDS Rubber (in)	(mm)	Spring Color
DNHS-X-12	12	5	1.45	37	10	0.18	0.20	5.1	Orange
DNHS-X-23	23	10	1.50	33	18	0.30			Brown
DNHS-X-33	33	15	1.30	28	30	0.54			Red
DNHS-X-54	54	24	1.40	31	45	0.80			White
DNHS-X-76	76	34	1.22	31	73	1.36			Black
DNHS-X-113	113	51	1.20	30	113	2.04			Yellow
DNHS-X-130	130	59	1.20	30	130	2.36			Purple
DNHS-X-175	175	79	1.20	30	175	3.16			Silver
DNHS-X-210	210	95	1.20	30	210	3.80			Blue
DNHS-A-12	12	5	1.35	34	12	0.20	0.35	8.9	Red
DNHS-A-18	18	8	1.35	34	18	0.32			Gray
DNHS-A-25	25	11	1.35	34	25	0.44			Orange
DNHS-A-41	41	19	1.53	39	35	0.63			Pink
DNHS-A-56	56	25	1.49	36	49	0.83			Black
DNHS-A-73	73	33	1.41	35	69	1.22			Tan
DNHS-A-95	95	43	1.36	50	94	1.65			Green
DNHS-A-45	45	20	1.95	50	28	0.49	0.35	8.9	Blue
DNHS-A-75	75	34	1.85	47	50	0.89			Orange
DNHS-A-125	125	57	1.68	43	94	1.68			Brown
DNHS-A-200	200	91	1.50	38	174	3.14			Black
DNHS-A-310	310	141	1.35	34	310	5.64			Yellow
DNHS-A-400	400	182	1.35	34	400	7.24			Green
DNHS-A-510	510	232	1.35	34	510	9.24			Red
DNHS-A-625	625	284	1.35	34	625	11.32			White

TYPE DNHS DIMENSIONS

Size Range	D (in)	D (mm)	H (in)	H (mm)	W (in)	W (mm)	LRP (in)	LRP (mm)	URP (in)	URP (mm)	MRD (in)	MRD (mm)
X-12-210	2 1/2	64	5 1/2	140	2 7/8	73	3 1/4	83	1 3/4	44	3/8	10
A-12-25	2 3/4	70	6 3/4	171	3 1/4	83	3 1/2	89	2 1/4	57	5/8	16
A-45-125	2 3/4	70	6 3/4	171	3 1/4	83	4	102	2 1/4	57	5/8	16
A-200-625	2 3/4	70	6 3/4	171	3 1/4	83	4	102	2 1/4	57	5/8	16

All springs have additional travel to solid equal to 50% of the Rated Deflection. Hanger elements have straight line deflection curves.

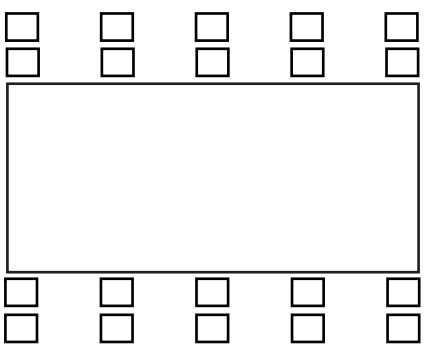
LRP - Lower Rod Penetration
URP - Upper Rod Penetration
MRD - Maximum Rod Diameter

PLAN VIEW OF HANGER LOCATIONS

TAG: _____

UNIT: _____

Click with mouse for each location >



_____ **SPECIFIED DEFLECTION**

1:	6:
2:	7:
3:	8:
4:	9:
5:	10:
Sets Required:	

Certification Form S-603 01/2011	DWN	CHKD	DATE	DWG No.

MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

350 Rabro Drive
Hauppauge, NY 11788
631/348-0282
FAX 631/348-0279
Info@Mason-Ind.com

2101 W. Crescent Ave., Suite D
Anaheim, CA 92801
714/535-2727
FAX 714/535-5738
Info@MasonAnaheim.com

www.Mason-Ind.com

JOB NAME _____

CUSTOMER _____

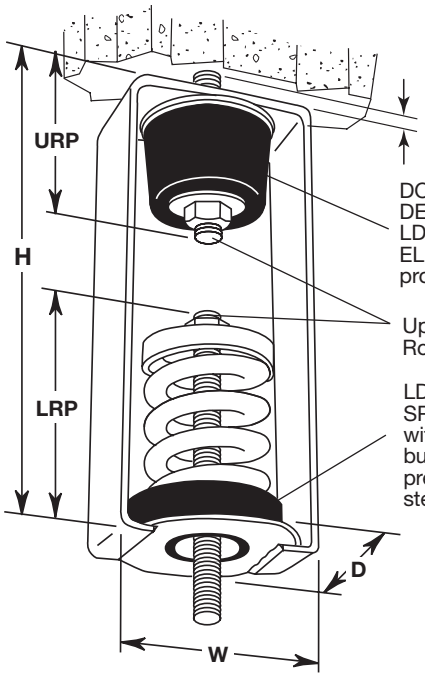
CUSTOMER P.O. _____

MASON M. _____

DWG No. _____

DNHS

1" 25mm Deflection A, B, 1, 2 & 4 Spring Series Hangers



LRP - Lower Rod Penetration
URP - Upper Rod Penetration
MRD - Maximum Rod Diameter

LDS stands for **L**ow **D**ynamic **S**tiffness AASHTO Bridge Bearing Natural Rubber to minimize noise and vibration transmission. Maximum Dynamic Stiffness is 1.4.

All springs have additional travel to solid equal to 50% of the Rated Deflection. Hanger elements have straight line deflection curves.

AASHTO Bridge Bearing Natural Rubber Specifications

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

TYPE DNHS RATINGS

Size	Rated Capacity (lbs)	(*kg*)	Rated Deflection† (in)	(*mm*)	Spring Constant†† (lbs/in)	(*kg/mm*)	Avg LDS Deflection (in)	(*mm*)	Spring Color/ Stripe
DNHS-A-45	45	*20*	1.95	*50*	28	*0.49*			Blue
DNHS-A-75	75	*34*	1.85	*47*	50	*0.89*			Orange
DNHS-A-125	125	*57*	1.68	*43*	94	*1.68*			Brown
DNHS-A-200	200	*91*	1.50	*38*	174	*3.14*	0.35	*9*	Black
DNHS-A-310	310	*141*	1.35	*34*	310	*5.64*			Yellow
DNHS-A-400	400	*181*	1.35	*34*	400	*7.24*			Green
DNHS-A-510	510	*231*	1.35	*34*	510	*9.24*			Red
DNHS-A-625	625	*283*	1.35	*34*	625	*11.32*			White
DNHS-B-65	65	*29*	2.45	*62*	31	*0.55*			Brown
DNHS-B-85	85	*39*	2.45	*62*	40	*0.74*			White/Blk
DNHS-B-115	115	*52*	2.35	*60*	57	*1.02*			Silver
DNHS-B-150	150	*68*	2.35	*60*	75	*1.33*	0.35	*9*	Orange
DNHS-B-280	280	*127*	1.95	*50*	174	*3.10*			Green
DNHS-B-450	450	*204*	1.66	*42*	344	*6.18*			Red
DNHS-B-750	750	*340*	1.47	*37*	670	*12.14*			White
DNHS-B-1000	1000	*454*	1.35	*34*	1000	*18.16*			Blue
DNHS-1-1000	1000	*454*	1.40	*36*	1000	*18.2*			Black
DNHS-1-1350	1350	*612*	1.40	*36*	1350	*24.5*			Yellow
DNHS-1-1750	1750	*794*	1.40	*36*	1750	*31.8*			Black*
DNHS-1-2100	2100	*953*	1.40	*36*	2100	*38.1*	0.40	*10*	Yellow*
DNHS-1-2385	2385	*1082*	1.40	*36*	2385	*43.3*			Yellow**
DNHS-1-2650	2650	*1202*	1.40	*36*	2650	*48.1*			Red*
DNHS-1-2935	2935	*1331*	1.40	*36*	2935	*53.2*			Red**
DNHS-2-2700	2700	*1225*	1.40	*36*	2700	*49.0*			Yellow
DNHS-2-3500	3500	*1588*	1.40	*36*	3500	*63.5*	0.40	*10*	Black*
DNHS-2-4200	4200	*1905*	1.40	*36*	4200	*76.2*			Yellow*
DNHS-4-5400	5400	*2449*	1.40	*36*	5400	*98.0*			Yellow
DNHS-4-7000	7000	*3175*	1.40	*36*	7000	*127.0*			Black*
DNHS-4-8400	8400	*3810*	1.40	*36*	8400	*152.4*	0.40	*10*	Yellow*
DNHS-4-9540	9540	*4327*	1.40	*36*	9540	*173.1*			Yellow**
DNHS-4-10600	10600	*4808*	1.40	*36*	10600	*192.3*			Red*
DNHS-4-11740	11740	*5325*	1.40	*36*	11740	*213.0*			Red**

TYPE DNHS DIMENSIONS

Size Range	D – Depth (in)	(*mm*)	H – Height (in)	(*mm*)	W – Width (in)	(*mm*)	LRP (in)	(*mm*)	URP (in)	(*mm*)	MRD (in)	(*mm*)
DNHS-A-45-625	2 3/4	*70*	6 3/4	*121*	3 1/4	*83*	4	*102*	2 1/4	*57*	5/8	*16*
DNHS-B-65-1000	4	*102*	9	*229*	4 3/4	*121*	4 1/4	*108*	3	*76*	3/4	*19*
DNHS-1-1000-2935	4	*102*	11	*279*	5 1/4	*133*	5	*127*	3 1/4	*83*	7/8	*22*
DNHS-2-2700-4200	9	*229*	12	*305*	5 1/4	*133*	7	*178*	3 3/4	*95*	1	*25*
DNHS-4-54020-11740	7	*178*	15	*381*	8 7/8	*225*	7	*178*	6	*152*	1 1/4	*32*

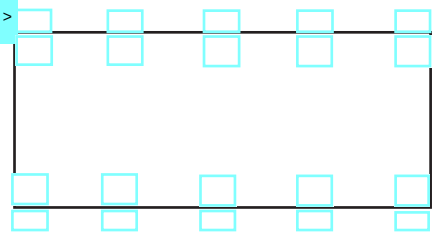
† includes double deflection LDS Rubber element.
†† applies to spring only.
* with Red inner Spring.
** with Green inner Spring.

PLAN VIEW OF HANGER LOCATIONS

TAG: _____

UNIT: _____

Click with mouse for each location >



_____ **SPECIFIED DEFLECTION**

1:	6:
2:	7:
3:	8:
4:	9:
5:	10:
Sets Required:	

Certification Form S-633 07/2012	DWN	CHKD	DATE	DWG No.