



MASON INDUSTRIES, Inc.

Manufacturers of Vibration Control Products

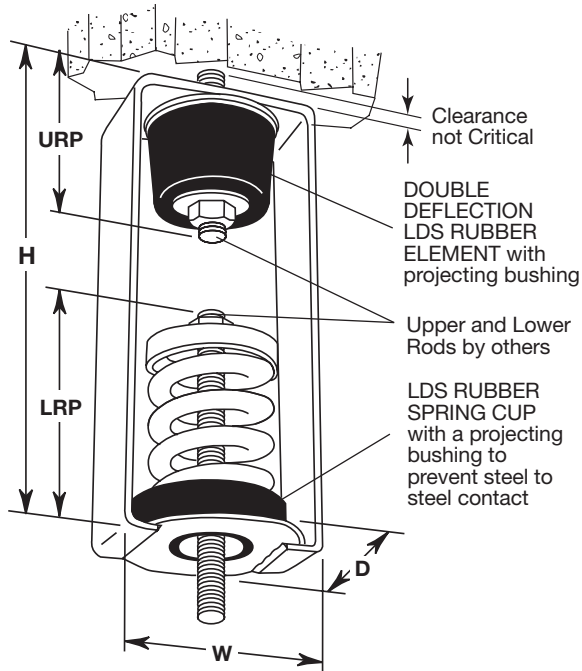
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JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

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 **Low Dynamic Stiffness** 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.

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	23/4 70	63/4 121	31/4 83	4 102	21/4 57	5/8 16
DNHS-B-65-1000	4 102	9 229	43/4 121	41/4 108	3 76	3/4 19
DNHS-1-1000-2935	4 102	11 279	51/4 133	5 127	31/4 83	7/8 22
DNHS-2-2700-4200	9 229	12 305	51/4 133	7 178	33/4 95	1 25
DNHS-4-54020-11740	7 178	15 381	87/8 225	7 178	6 152	11/4 32

† includes double deflection LDS Rubber element.

†† applies to spring only.

* with Red inner Spring.

** with Green inner Spring.

AASHTO BRIDGE BEARING NATURAL RUBBER SPECIFICATIONS

ORIGINAL PHYSICAL PROPERTIES			TESTED FOR AGING			COMPRES- SION SET	LONG TERM CREEP
Tests:	ASTM D-2240 & D-412		OVEN AGING(70hrs/158°F)	ASTM D-573	OZONE		
Duro- meter	Tensile	Elongat. at Break	Hard- ness	Tensile	Elongat. at Break	ASTM D-395	ISO8013
Shore A	Strength (min)	(min)	(max)	Strength (max)	(max)	25 pphm in air by Vol. 20% Strain 100°F	168hrs
60±5	2250 psi	400%	+10%	-25%	-25%	No Cracks	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	0.35	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	181	1.35	34	400	7.24			Green
DNHS-A-510	510	231	1.35	34	510	9.24	0.35	9	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			Orange
DNHS-B-280	280	127	1.95	50	174	3.10	0.40	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	0.40	10	Black*
DNHS-1-2100	2100	953	1.40	36	2100	38.1			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	0.40	10	Yellow
DNHS-2-3500	3500	1588	1.40	36	3500	63.5			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**

PLAN VIEW OF HANGER LOCATIONS

TAG: _____

UNIT: _____



SPECIFIED DEFLECTION

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



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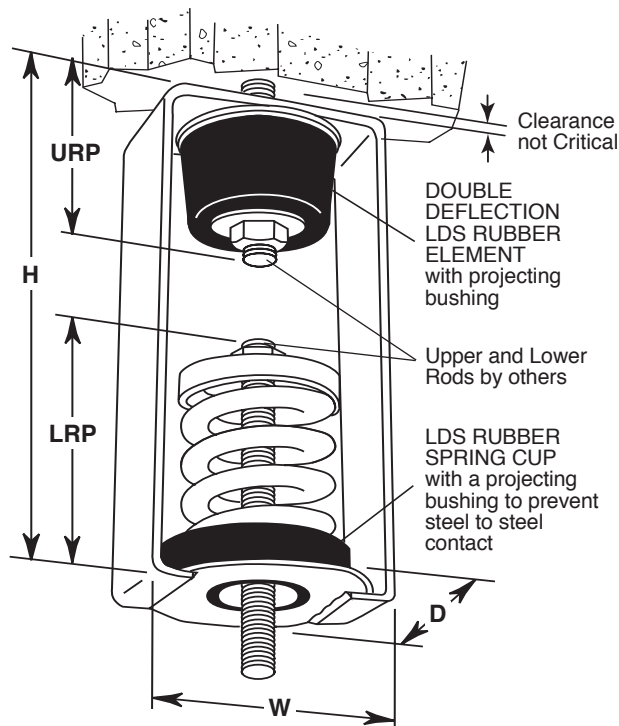
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JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

DNHS

1" 25mm Deflection
X & A Series
Spring Hangers



LDS stands for Low Dynamic Stiffness 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			COMPRES-	LONG
Tests: ASTM D-2240 & D-412			OVEN AGING (70hrs/158°F)			SION SET	TERM
Duro-	Tensile	Elongat.	Hard-	Tensile	Elongat.	ASTM	CREEP
meter	Strength	at Break	ness	Strength	at Break	D-395	ISO8013
Shore A	(min)	(min)	(max)	(max)	(max)	22hrs/158°F	168hrs
60±5	2250 psi	400%	+10%	-25%	-25%	No Cracks	5%(max)

TYPE DNHS RATINGS

Type and Size	Rated Capacity (lbs) (kg)	Rated Deflection† (in) (mm)	Spring Constant†† (lbs/in) (kg/mm)	Avg LDS Deflection (in) (mm)	Spring Color
DNHS-X-12	12 5	1.45 37	10 0.18	0.20 5	Orange
DNHS-X-23	23 10	1.50 38	18 0.30		Brown
DNHS-X-33	33 15	1.30 33	30 0.54		Red
DNHS-X-54	54 24	1.40 36	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	0.35 9	Silver
DNHS-X-210	210 95	1.20 30	210 3.80		Blue
DNHS-A-12	12 5	1.35 34	12 0.20		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 38	49 0.83		Black
DNHS-A-73	73 33	1.41 36	69 1.22	0.35 9	Tan
DNHS-A-95	95 43	1.36 35	94 1.65		Green
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		Black
DNHS-A-310	310 141	1.35 34	310 5.64		Yellow
DNHS-A-400	400 181	1.35 34	400 7.24	0.35 9	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

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)
X-12-210	21/2 64	51/2 140	27/8 73	31/4 83	13/4 44	3/8 10
A-12-25	23/4 70	63/4 171	31/4 83	31/2 89	21/4 57	5/8 16
A-41-95	23/4 70	63/4 171	31/4 83	4 102	21/4 57	5/8 16
A-45-400	23/4 70	63/4 171	31/4 83	4 102	21/4 57	5/8 16
A-510-625	23/4 70	63/4 171	31/4 83	4 102	21/4 57	5/8 16

† includes double deflection LDS Rubber element.

†† applies to spring only.

* with Red inner Spring.

** with Green inner Spring.

LRP - Lower Rod Penetration

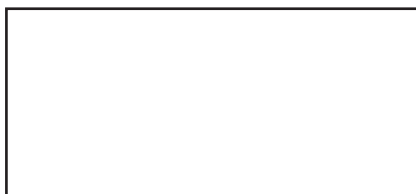
URP - Upper Rod Penetration

MRD - Maximum Rod Diameter

PLAN VIEW OF HANGER LOCATIONS

TAG: _____

UNIT: _____



SPECIFIED DEFLECTION

1:	6:
2:	7:
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Sets Required:	



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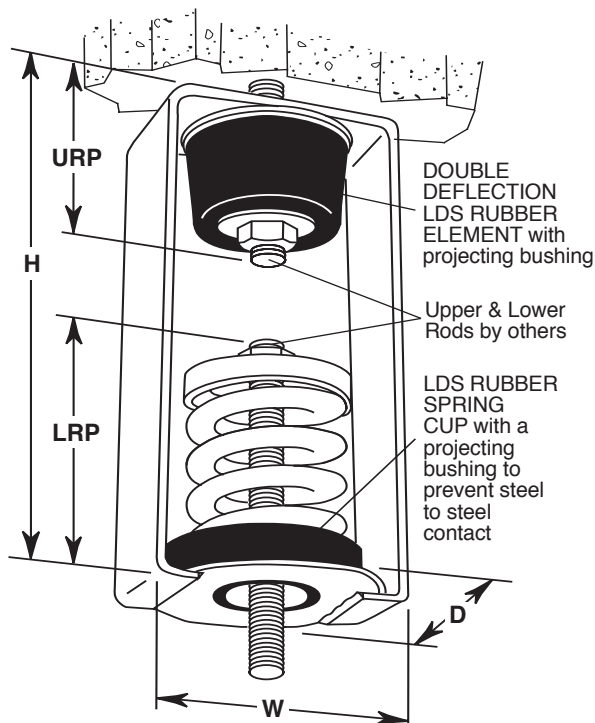
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JOB NAME _____
CUSTOMER _____
CUSTOMER P.O. _____
MASON M. _____
DWG No. _____

DNHS

2" 50mm Deflection
B, B2, C2 Series
Spring Hangers



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

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-B-20-150	4 102	9 229	43/4 121	51/8 130	3 76	3/4 19
DNHS-B2-210-680	4 102	9 229	43/4 121	51/8 130	3 76	3/4 19
DNHS-C2-125-1870	4 102	11 279	51/4 133	51/4 133	31/4 83	7/8 22
DNHS-2-C2-2420-3740	9 229	12 305	51/4 133	6 154	33/4 95	1 25
DNHS-4-C2-3520-7480	7 178	15 381	87/8 225	8 203	6 152	11/4 32

† includes double deflection LDS Rubber element.

†† applies to spring only.

* with Red inner Spring.

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

*Published ratings allow minimum 25% additional travel to solid. For a full 50% specified minimum use the following ratings:

Size	Derated Capacity (lbs) (kg)	Defl. (in) (mm)	Size	Derated Capacity (lbs) (kg)	Defl. (in) (mm)	Size	Derated Capacity (lbs) (kg)	Defl. (in) (mm)
B2-450	410 186	1.83 46	C2-1870	1560 708	1.67 42	2-C2-3740	3120 1415	1.67 42
B2-680	565 256	1.66 42	2-C2-1760	1600 726	1.82 46	4-C2-4840	4040 1833	1.67 42
C2-880	800 363	1.82 46	2-C2-2420	2020 916	1.67 42	4-C2-6160	5145 2334	1.67 42
C2-1210	1010 458	1.67 42	2-C2-3080	2570 1166	1.67 42	4-C2-7480	6245 2833	1.67 42
C2-1540	1285 583	1.67 42						

All springs without "†" have additional travel to solid equal to 50% of the Rated Deflection. Hanger elements have straight line deflection curves.

TYPE DNHS RATINGS

Type and Size	Rated Capacity (lbs) (kg)	Rated Defl.† (in) (mm)	Spring Constant†† (lbs/in) (kg/mm)	Avg LDS Deflection (in) (mm)	Spring Color
DNHS-B-20	20 9	2.75 70	8 0.15	0.35 9	Tan
DNHS-B-26	26 12	2.53 64	12 0.22		White/Bl
DNHS-B-35	35 16	2.55 65	16 0.29		Purple
DNHS-B-50	50 23	2.55 65	24 0.41		White/Rd
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	0.35 9	Silver
DNHS-B-150	150 68	2.35 60	75 1.33		Orange
DNHS-B2-210	210 95	2.47 63	99 1.76	0.35 9	Silver
DNHS-B2-290	290 132	2.35 60	144 2.59		Blue
DNHS-B2-450†	450 204	2.35 60	224 4.00		Tan
DNHS-B2-680†	680 308	2.35 60	340 6.04	0.40 10	Gray
DNHS-C2-125	125 57	2.90 74	50 0.89		Purple
DNHS-C2-170	170 77	2.80 71	70 1.26		Brown
DNHS-C2-210	210 95	2.70 69	90 1.64		Red
DNHS-C2-260	260 118	2.60 66	120 2.11		White
DNHS-C2-330	330 150	2.40 61	165 2.94		Black
DNHS-C2-460	460 209	2.40 61	230 4.10		Blue
DNHS-C2-610	610 277	2.40 61	305 5.43		Green
DNHS-C2-880†	880 399	2.40 61	440 7.82		Gray
DNHS-C2-1210†	1210 549	2.40 61	605 10.8		Silver
DNHS-C2-1540†	1540 699	2.40 61	770 13.7		Gray*
DNHS-C2-1870†	1870 848	2.40 61	935 16.6		Silver*
DNHS-2-C2-2420†	2420 1098	2.40 61	1210 21.5	0.40 10	Silver
DNHS-2-C2-3080†	3080 1397	2.40 61	1540 27.4		Gray*
DNHS-2-C2-3740†	3740 1696	2.40 61	1870 33.3		Silver*
DNHS-4-C2-3520†	3520 1597	2.40 61	1760 31.3	0.40 10	Gray
DNHS-4-C2-4840†	4840 2195	2.40 61	2420 44.2		Silver
DNHS-4-C2-6160†	6160 2794	2.40 61	3080 54.8		Gray*
DNHS-4-C2-7480†	7480 3393	2.40 61	3740 66.5		Silver*

PLAN VIEW OF HANGER LOCATIONS

TAG: _____

UNIT: _____



SPECIFIED DEFLECTION

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Sets Required:	