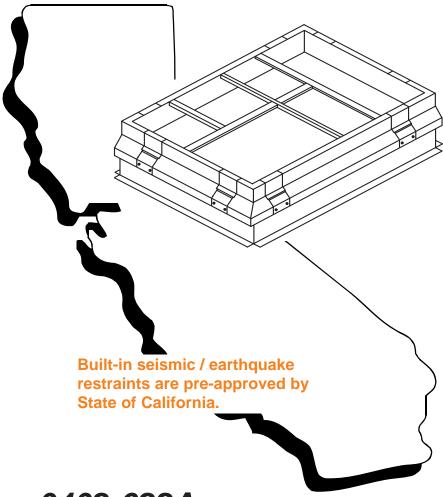
Micro Metal ISOLATION CURB

CATALOG



for 0402-622A Isolation Curb with Seismic / Earthquake Restraints for York
DH,DM,BP 180;
BCH 180; DCG
180; DEE 180;
DEG 180; DCE





CONTENTS

Specifications 2	
Curb Specifications 3	
Spring Detail & Approval 4	
Engineering Calculations part one5	
Engineering Calculations part two6	
Installation Instructions 7	

Spring approved by the state of California

MicroMetl 0402-622A Curb Specifications

- Springs shall be preapproved by the California Office of Statewide Health Planning and Development.
- Spring application and anchorage method shall be approved by Registered Professional Engineer State of California.
- Springs shall include built in seismic / earthquake restraints - California approved.
- 4.) Springs shall be accurately selected (sized) based on each corner weight of HVAC unit. Isolation curb manufacturers using same spring size in all corners, regardless of actual corner weight, **shall not** be accepted.

- For York
 DH,DM,BP 180; BCH 180;
 DCG 180; DEE 180; DEG
 180; DCE
- Isolation curb shall allow for field adjustment of each spring through gasketed, watertight access doors.
- 6.) Isolation curb shall be fully assembled and shipped on a skid / crate.
- 7.) Bulb seal shall be installed between spring housing and bottom curb. Seal shall be manufactured by Elgin.
- 8.) Isolation curb shall be constructed of galvanized steel with welded assembly. Spring housing 20 gauge, bottom curb 16 gauge.

Important Information

MicroMetl's 0402-622A Isolation Curbs are equal to or exceed specifications written for: Approximate weight of isolation roof curb: 630 lbs.

- MASON INDUSTRIES RSC and ISC series.
- CANFAB Isocurb series.
- THYCURB Vibrocurb.
- M.W. Sausse VIC EQ series

Indianapolis, IN 1-800-662-4822 Sparks, NV 1-800-884-4662



CALIFORNIA DYNAMICS CORP 5572 ALHAMBRA AVE. LOS ANGELES, CA. 90032-3106

CALL US - TO SET THINGS RIGHT

PH (825) 228 - 3882

FAX (323) 223 - 7941

amail: caldyn@earthlink.net

TYPE JQ ISOLATOR/RESTRAINTS WITH/CALIF, PRE-APPROVED SEISMIC PROTECTION **OPA - 0070** 2" DEFLECTION

FILE 309

springs with O. D. equal or greater than 80% of

For compact support of heavy loads, many JQ's include inner springs. For Low profile support of heavy Loads ,

rated load height.

JQE's have clustered springs .

1 /18/04

JOB: CUST: DATE ENG'R **OPA - 0070** PRE - APPROVED MAXIMUM TAG: ALLOWABLE LOADS SIZE HORIZ. VERT. JQBX shown 9/16 Dia. JQA 11/18 Dia. JQB,JQBX,JQE & JQF Style R 1660 JQA 800 Selemic JQB 1000 1600 Restraint JQBX 1500 2000 Adjustment PROFESSIONAL PROFE 4300 4000 D Dia. Stud-Load Transfer Style R for attaching to side of equipment Style Oper Shear panels OF CALIFORNIA JOBX only JOA, JOB, JOBX & JOF JQE 4 Spring Housing 1/4 Neoprene Spring Pad Option S Isolator Selection & Loc RATED LOAD & P/N F Springs 2* Deflection JQB Size JQE Size JQBX Size JQA Size JQF Size F88 F348 F1159 TYPICAL CALLOUT: F1408 P83 F487 F480 F820 F1710 F1900 F580 If Optional F165 F2149 F780 F676 Pad F195 F825 F2700 siza JOA R S F236 F236 F1200 F300 Style Spring V or R Approximate Housing D M Surface Treatment: Oper, Height 820 Housings Hot Dip Galvanized (HDG) Hardware Zinc Plated 2 3/8 4-1/2 JQA 7 6 2-3/4 Springs Powder Coated or Zinc Plated . JOB/JOBX 10-1/2 3-1/29 4 5/8 5-1/2 Dimensions in Inches . Loads in Pounds . Adjust Load Transfer Nut for Proper Operation . 5 JQE 14 5 12 6 5/8 All JQ isolator/Restraints feature large diameter 5-3/4 JQF 14 5 12 5/8

Fax in your order to MicroMetl Indianapolis, IN 1-317-543-5986 Sparks, NV 1-775-356-9184

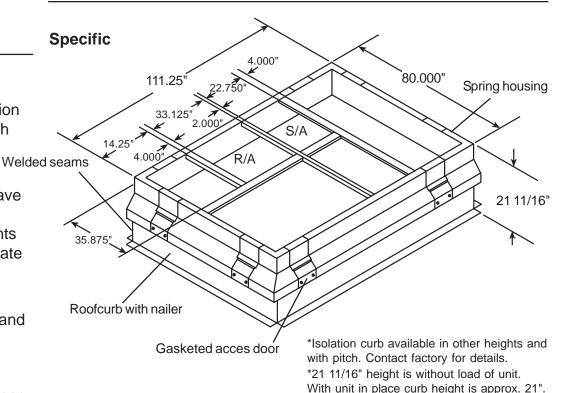


Isolation Curb Features

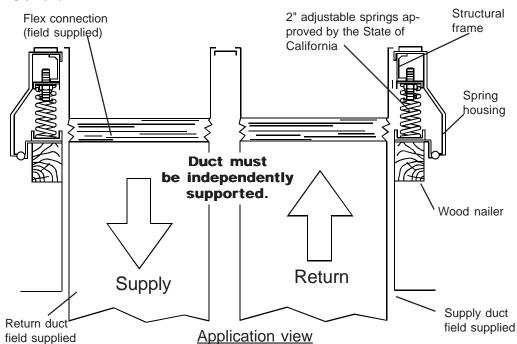
- Package includes roofcurb and isolation fully assembled with welded seams.
- Isolation springs have built-in seismic / earthquake restraints approved by the State of California.
- Spring application and anchorage method approved by Registered Professional Engineer in State of California.
- Springs are adjustable through watertight access doors.
- Wood nailer, gasketing package included.
- Tight weather seal between roofcurb and spring housing.
- Shipped on a skid/ crate.

MicroMetl 0402-622A Curb Specifications

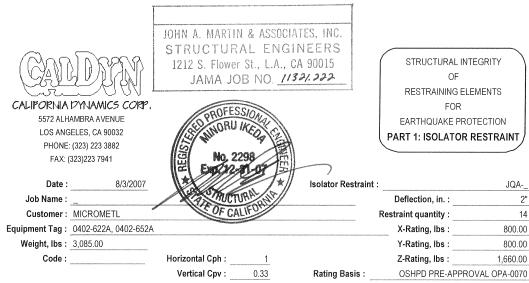
For York
DH,DM,BP 180; BCH 180;
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180; DCE



General

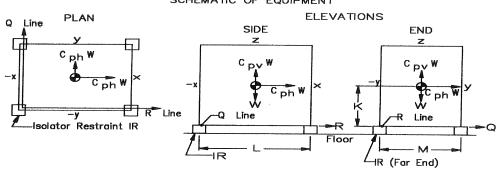


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Remarks/ Detail:

SCHEMATIC OF EQUIPMENT

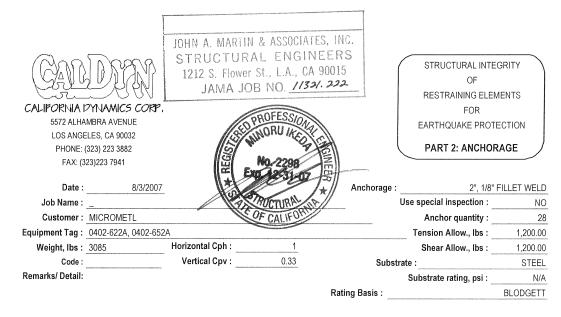


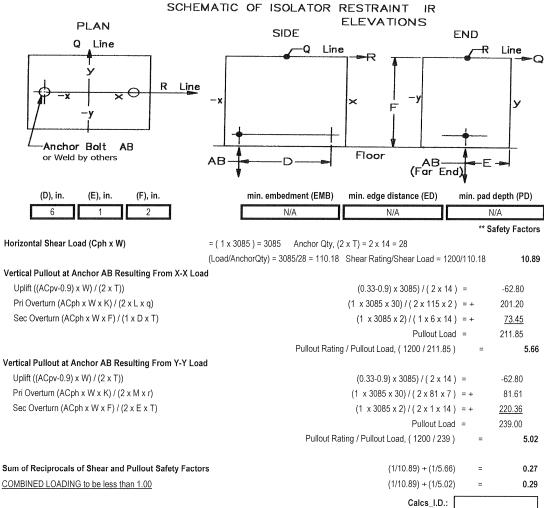
LENGTH (L), in.	VERT. C.G (K), in.	WIDTH, (M), in.
115	30	81

Safety Factors > 1.0

Horizontal X-X Shear Load (Cph x W)	(1 x 3085) = 3085		
X-X Load = Load / Restraint = (3085/14) = 220.36	X-X Rating/ X-X Load = 800 / 220.36	=	3.63
Horizontal Y-Y Shear Load (Cph x W)			
Y-Y Load = Load / Restraint = (3085/14) = 220.36	Y-Y Rating/ Y-Y Load = 800 / 220.36	=	3.63
Vertical pullout at IR along the Q Line	quantity of Restr on Q Line, q = 2		
Uplift, ((Cpv x W) / T)	$(0.33 \times 3085) / 14 =$	73	
Pri Overturn (Cph x W x K) / (L x q)	$(1 \times 3085 \times 30) / 115 \times 2 = +$	<u>402</u>	
	Pullout Load	475	
	Pullout Rating/ Pullout Load = 1660 / 475.11	=	3.49
Vertical Pullout at IR along the R Line	quantity of Restr on R Line, r = 7		
Uplift, ((Cpv x W) / T)	$(0.33 \times 3085) / 14 =$	73	
Pri Overturn (Cph x W x K) / (M x r)	$(1 \times 3085 \times 30) / (81 \times 7) = +$	<u>163</u>	
	Pullout Load	236	
	Pullout Rating/ Pullout Load = 1660 / 235.95	=	7.04
	Calcs I.D.:		

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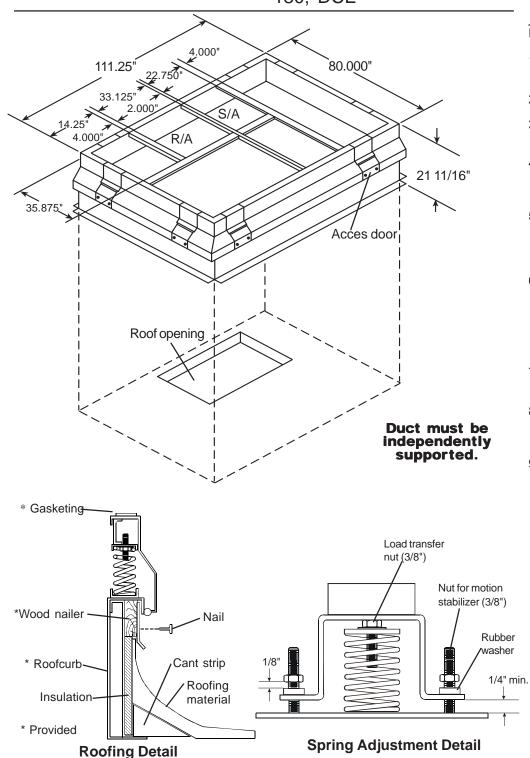
MicroMetl 0402-622A Installation Instructions

For York
DH,DM,BP 180; BCH 180;
DCG 180; DEE 180; DEG
180; DCE



Instructions
Please read completely

- Remove isolation curb from skid.
- 2. Hoist isolation curb to the roof.
- 3. Cut roof opening per HVAC unit instructions.
- Set curb in place over opening. Secure to roof structure.
- Roof-in bottom curb section up to wood nailer. See detail and follow all local roofing codes.
- Install starter ducts with flex connection into duct opening on curb. Flex connection will eliminate vibration through duct work. Independently support the duct work.
- 7. Gasket top perimeter and duct opening on curb.
- 8. Set HVAC unit in place. Install any accessories (i.e. economizer) at this time.
- 9. MicroMetl 0402 Isolation Curbs have springs selected specifically for the HVAC unit. Remove spring access doors in each corner. The spring housing should ride at least 1/4" above the base (see detail). If the spring housing is riding less than 1/4" above the base, adjust the transfer nut clockwise (when looking down on spring) until the 1/4" is achieved. Adjust all springs in the same manner. If a spring housing will not come up off the base, it may be necessary to rotate other springs counterclockwise to transfer weight off the overloaded spring. Adjust the nut for motion stabilizer until it sets 1/8" above the rubber washer (see detail).
- 10. Replace doors and continue a standard unit installation.



Indianapolis, IN 1-317-543-5986 Sparks, NV 1-775-356-9184



MicroMetl Indianapolis 3035 North Shadeland Ave. 905 Southern Way Suite 300 Indianapolis, IN 46226 (Toll-free) 1-800-662-4822 (Fax) 1-775-356-9184 (Fax) 1-317-543-5986

MicroMetl West Sparks, NV 89431 (Toll-free) 1-800-884-4662

Form No. 5060-1P