element® DESIGNS

Aluminum Frame Base Structures

v7.24

°element Designs aluminum frame base systems are a unique product solution for cabinetry and furniture designs. Kitchen islands, cabinet bases, tables and shelving units are easy to design in custom configurations to meet your individual project needs. Our aluminum frame base system is available in 50mm or 30mm tubing, in several finishes and comes with either leveling feet or casters.

Base Profiles

BS001
50mm (1 31/32")

BS002
30mm (1 3/16")

Base System Support Options

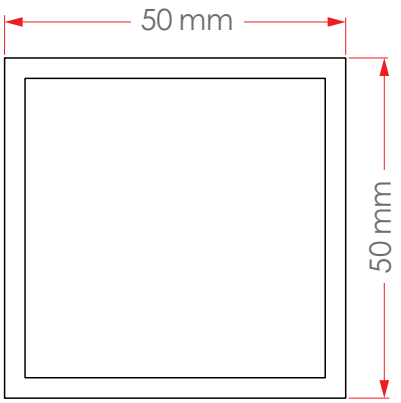
none
unfinished hollow tubing

end cap
standard with all base systems

leveling foot
2" diameter metal base with up to 2" height adjustability

caster
wheel caster with brake, 2 3/8" diameter non-marking nylon wheels

BS001



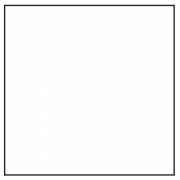
Profile Finishes

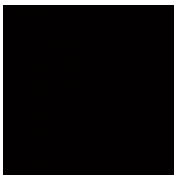
Anodized


Natural
(N)

Coated


Bronze Matte
(BZM)

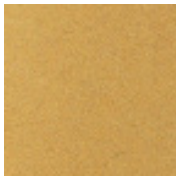

Chalk
(CK)


Onyx
(X)


Gold
(GLD)

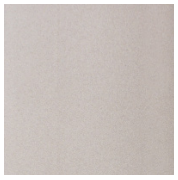

Graphite
(GR)


Stainless
(S)


Modern Brass
(MB)

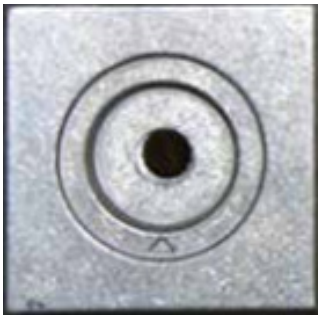

Luxe Bronze
(LB)


Copper
(CP)


Arctic Silver
(AS)

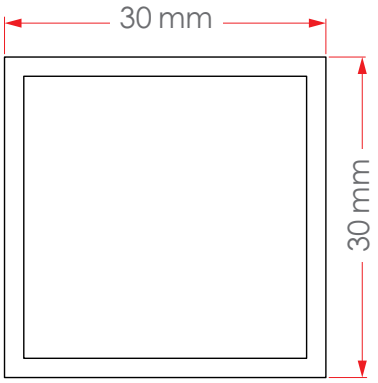
Support Options


Caster
(not adjustable)


End Cap


Leveling Foot
(up to 2" adjustment)

BS002



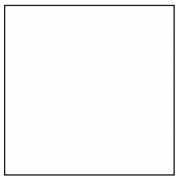
Profile Finishes

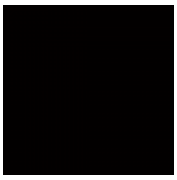
Anodized


Natural
(N)

Coated


Bronze Matte
(BZM)

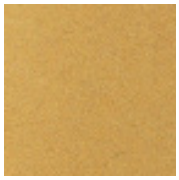

Chalk
(CK)


Onyx
(X)


Gold
(GLD)


Graphite
(GR)


Stainless
(S)


Modern Brass
(MB)

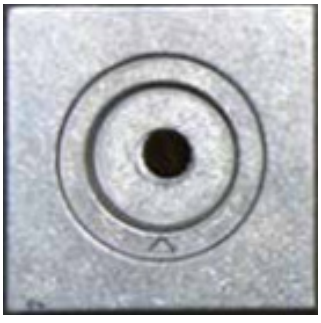

Luxe Bronze
(LB)


Copper
(CP)


Arctic Silver
(AS)

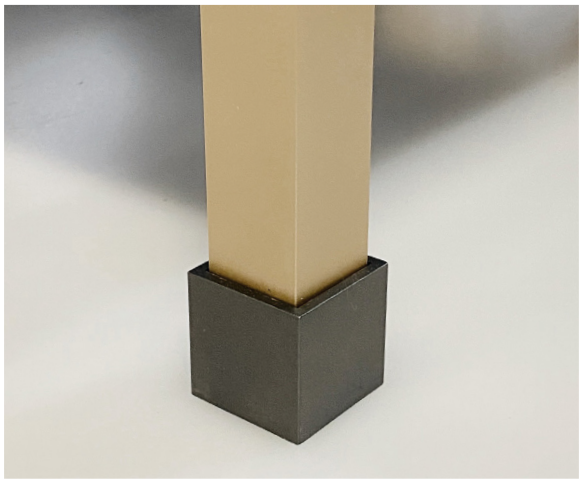
Support Options

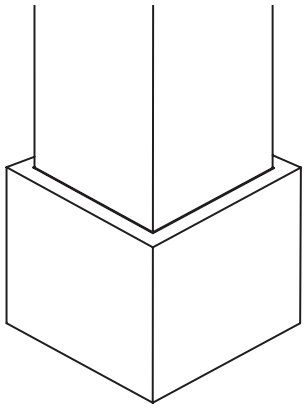

Caster
(not adjustable)

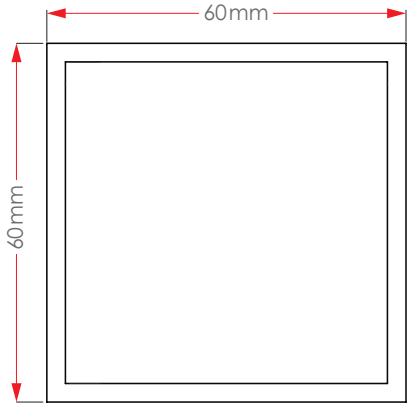

End Cap


Leveling Foot
(up to 2" adjustment)

CUFF

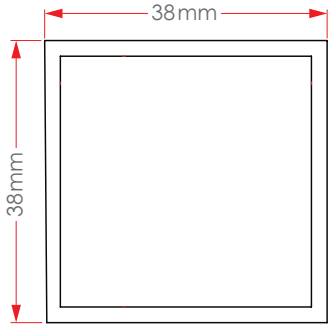






Cuff dimensions for BS001 profile

Height = 60mm (2.36")



Cuff dimensions for BS002 profile

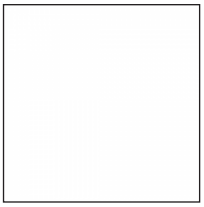
Height = 38mm (1.5")

Cuff Finishes

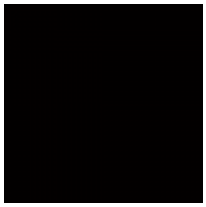
Coated

Silver Matte
(SM)

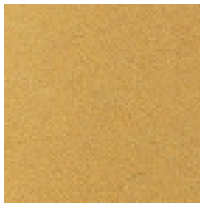
Bronze Matte
(BZM)



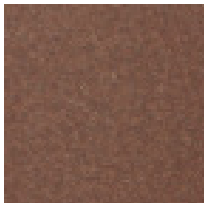
Chalk
(CK)



Onyx
(X)



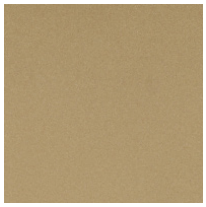
Modern Brass
(MB)



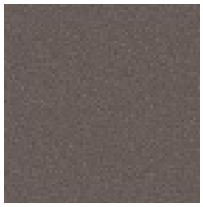
Luxe Bronze
(LB)

Copper
(CP)

Arctic Silver
(AS)



Gold
(GLD)



Graphite
(GR)

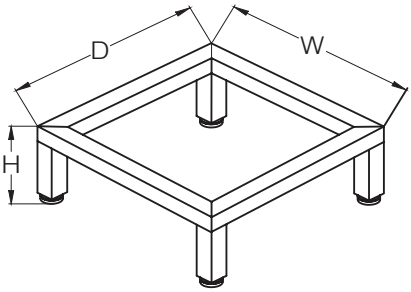
* Base System Cuff is NOT available in brushed stainless.

Base Layouts 1.0 - 1.4

System Code	MAX height	MAX depth	MAX width
1.0	16"	48"	48"
1.1	16"	48"	72"
1.2	16"	48"	96"
1.3	16"	48"	108"
1.4	16"	48"	120"

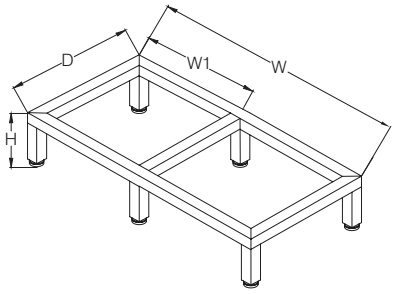
*Casters installed - Caster height (67mm)included in overall base system height.

Base 1.0



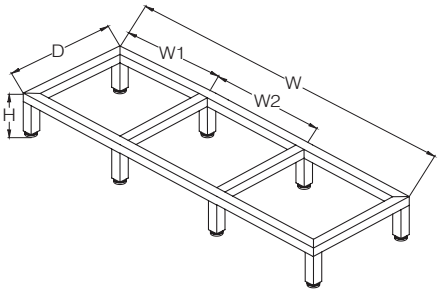
Min. H=6" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=48"

Base 1.1



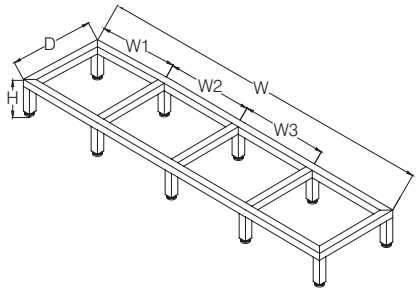
Min. H=6" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=72"
Min. W1-W2=12" Max. W1-W2=48"

Base 1.2



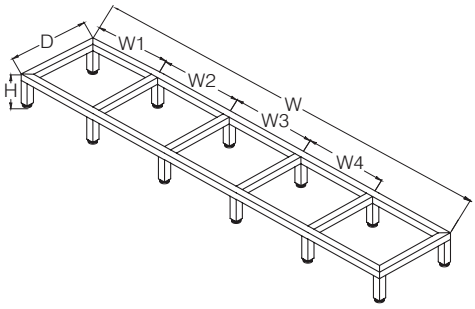
Min. H=6" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=96"
Min. W1-W2=12" Max. W1-W2=48"

Base 1.3



Min. H=6" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=108"
Min. W1-W3=12" Max. W1-W3=48"

Base 1.4



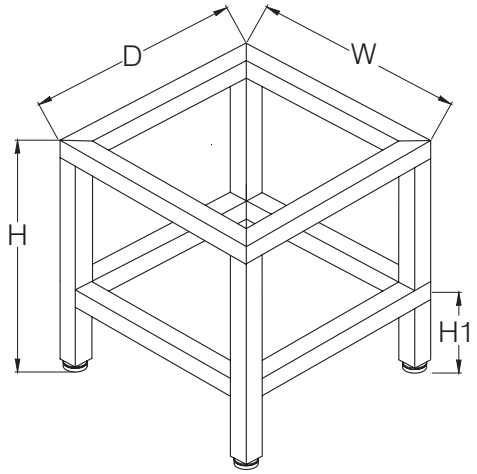
Min. H=6" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=120"
Min. W1-W4=12" Max. W1-W4=48"

Base Layouts 2.0 & 2.1

System Code	MAX height	MAX depth	MAX width
2.0	48"	48"	48"
2.1	48"	48"	72"

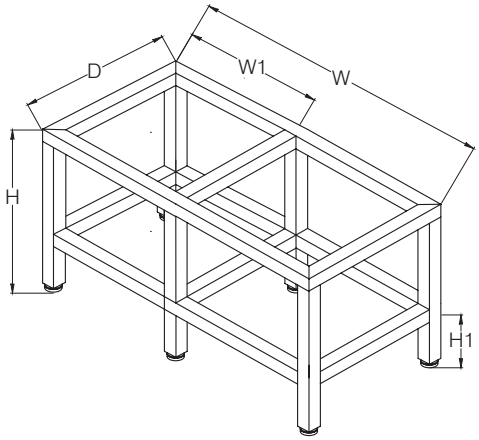
*Casters installed - Caster height (67mm)included in overall base system height.

Base 2.0



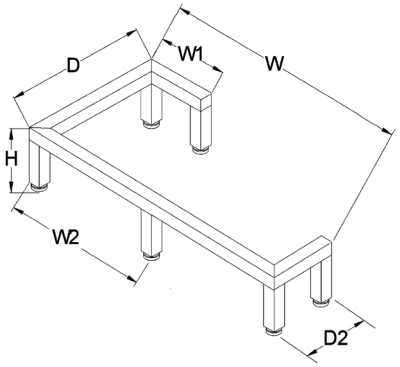
Min. H=16" Max. H=16"
Min. D=12" Max. D=48"
Min. W=12" Max. W=48"
Min. H1=6" Max. H1=24"

Base 2.1

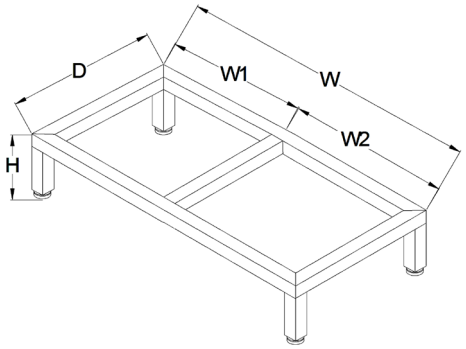


Min. H=16" Max. H=16"
Min. D=12" Max. D=48"
Min. W=24" Max. W=48"
Min. H1=6" Max. H1=24"
Min. W1=12" Max. W1=48"

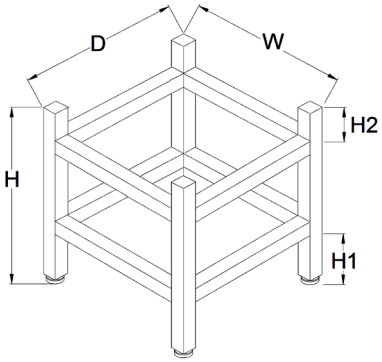
Custom 1.1



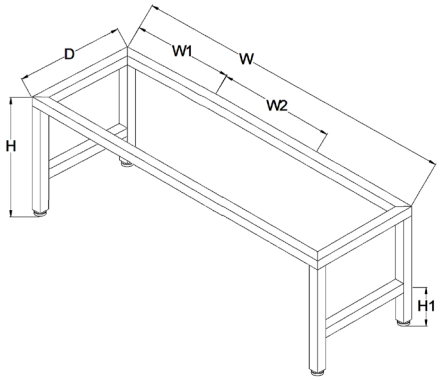
Custom 1.1 A



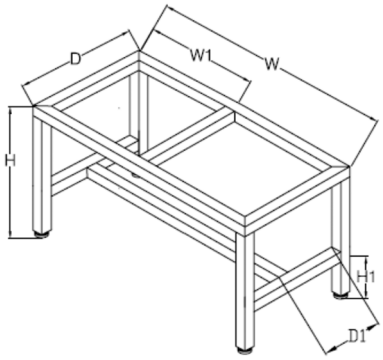
Custom 2.0 B



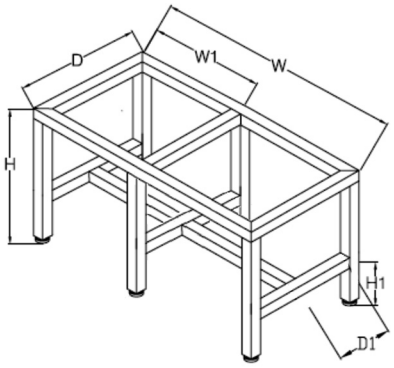
Custom 2.0 A



Custom 2.1 A

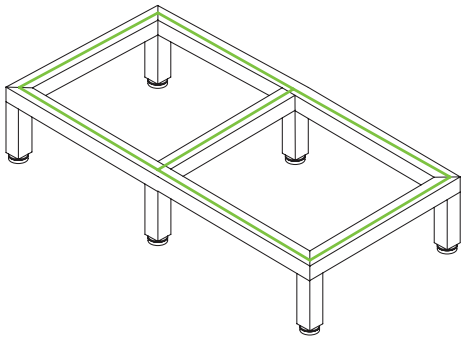


Custom 2.1 B



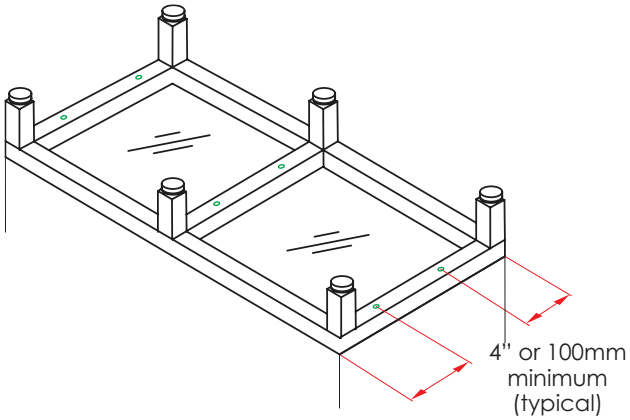
- Height (H), Depth (D), & Width (W) are the overall base system dimensions.
- Exterior sectional dimensions are from outside edge to center line of first cross brace (H1, D1, and W1).
- Interior sectional dimensions are from center to center of cross brace (W2, W3, and W4) Height (H) & Sectional Height (H1) is to bottom of leveling foot or castor.
- Use of casters versus leveling feet will add 2" to H & H1 miminums.
- Will ship sub-assembled with all required hardware.
- Attach assembled base to cabinet with brackets, screws, or double sided tape.

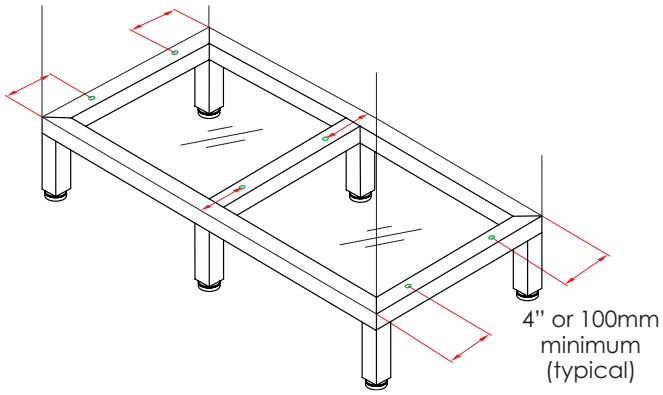
VHB Mechanical Tape Recommendation:

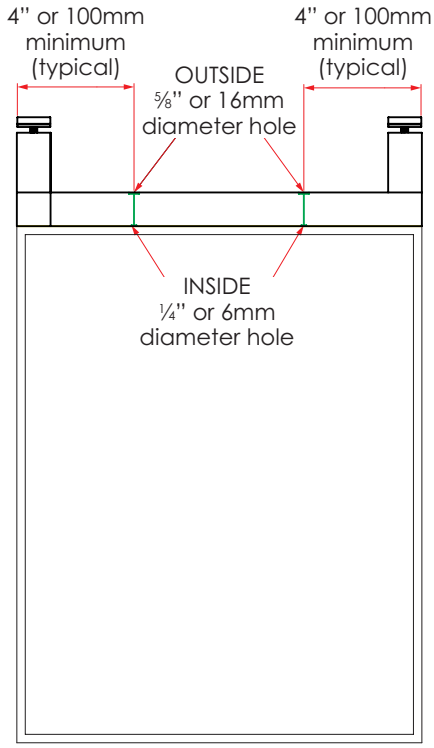


1. Wipe down aluminum base system surface along with bottom of cabinet to eliminate debris, etc.
2. Use 3M 5952 double sided mechanical VHB foam tape
3. Place double sided mechanical tape along top of base system extrusion (shown in green)
4. Peel top surface of VHB tape
5. Install cabinet on base system structure

Mechanical Fastener Recommendation:







1. Place base system structure on cabinet in the upside-down position for alignment
2. Each depth rail can have up to two attachment points. NOTE all holes should be minimum of 4" from each of the base system legs (shown in red)
3. Locate and drill 5/8" (16mm) diameter hole on first wall of base system using a metal drill bit
4. Drill ¼" (6mm) hole in the second wall of the base system (do not drill into bottom of cabinet
5. Using a #6 – ½" pan head wood screw (included), attach base system to cabinet.
6. Rotate installed base system and cabinet to upright position

Static Load Capability

Layout 1.0 Static Load Test Results

BS001 (50mm)
1186 lb Load Test - PASSED

BS001 (50mm)

BS002 (30mm)
1186 lb Load Test - PASSED

BS002 (30mm)

* Element Designs does NOT recommend moving or sliding base system with leveling feet or end caps on a floor surface. Picking and placing in desired location is advised.

Static Load Capability

Weight capacity per support option

End cap - >500 lbs per cap

Leveling foot - 250 lbs per foot

Standard Caster - 125 lbs per caster

* Element Designs does NOT recommend moving or sliding base system with leveling feet or end caps on a floor surface. Picking and placing in desired location is advised.

Element Designs' aluminum frame base structure products are covered by a limited liability warranty from defects in material and workmanship over the functional lifetime of the base system. The warranty includes any defects in the fabricated size, aluminum finish flaws outside of quality standards. Element Designs also warrants base system from deterioration, discoloring, degrading, or overall changing through the course of the product's lifetime. This warranty does not apply if, in the judgment of Element Designs, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product's care instructions, has been modified in any way, or has been defaced. Repair by anyone other than Element Designs or an approved agent voids this warranty. The maximum liability of Element Designs is the product purchase price.