

GALVANIZED & STAINLESS STEEL PATENTED BRICK CONNECTORS



BAILEY
METAL PRODUCTS LIMITED



MONTREAL · TORONTO · CALGARY · EDMONTON · VANCOUVER

THE STRENGTH WITHIN



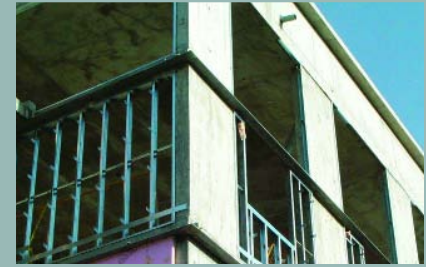
ECONOMICAL STAINLESS STEEL BRICK CONNECTOR (ESS) HOT DIP GALVANIZED BRICK CONNECTOR (HDG-3)

#1 PRODUCT IN THE MARKET. DESIGNED TO EXCEED ALL NEW BUILDING CODE REQUIREMENTS.

PERFORMANCE

- Engineered to exceed CSA A370 and CSA S304.1.
- HDG-3 connectors use grade 50 Class 1 Steel with 50 KSI minimum yield.
- ESS connectors exceed 50 KSI minimum yield stainless.
- In tests Bailey Brick Connectors limit any critical "free play" to significantly below the CSA standard of up to 1.2 mm.

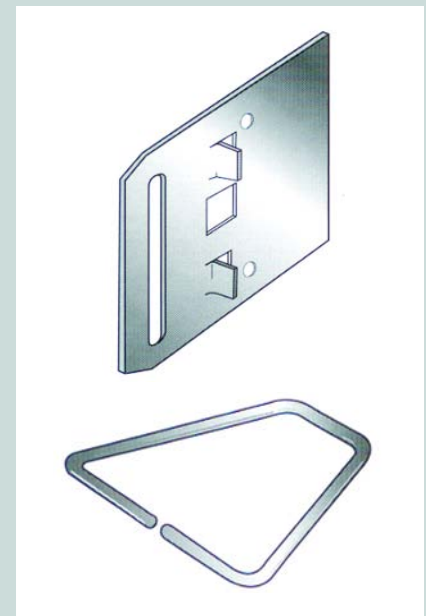
BETTER PERFORMANCE CREATES BETTER BUILDINGS



DESIGN

- The Bailey Brick Connector adjustable design provides flexibility of up to 2" differential between the stud wall and the brick veneer.
- The patented positioning tab design ensures simple, rapid, accurate installation.
- Bailey Brick Connectors greatly improve connection strength with a direct web connection placing the fasteners in shear.
- **NOTE:** A #10 screw into .033 steel has 140% greater pullout values in shear.

GREAT DESIGN YIELDS GREAT RESULTS



DURABILITY

- Galvanized HDG connectors typically exceed CSA A370-94 galvanized coating standards by 100%.
- Stainless ESS connectors at minimum grade 304 stainless provide ultimate durability in marine and other aggressive environments.
- Bailey Brick Connectors provide superior resistance.

SUPERIOR PRODUCTS MEANS SUPERIOR CONSTRUCTION

ECONOMICS

- Bailey Brick Connectors have a unique patented design providing a combination of superior performance and economics.
- HDG - 3 and ESS connectors are universal to all Bailey steel framing systems.
- HDG - 3 and ESS connectors are designed to work with Bailey systems from 3 5/8 through 8", 1 5/8" flange and **all exterior sheathing and insulation systems.**

MINIMIZING MATERIAL USAGE MINIMIZES COSTS



Please contact **Bailey Metal Products Limited** for additional information on these brick connectors, our other building products and design recommendations. Visit our web site at www.bmp-group.com for details on all **Bailey Metal Products Limited** products and systems.



BAILEY ESS & HDG BRICK CONNECTORS

BAILEY BRICK CONNECTORS meet or exceed the design and architectural requirements of the following CSA Standards:

- S304.1-94 Masonry Design for Buildings (Limit States Design)
- A370-94 Connectors for Masonry

Bailey offers two brick connector systems consisting of steel tie plates, V wires and fasteners:

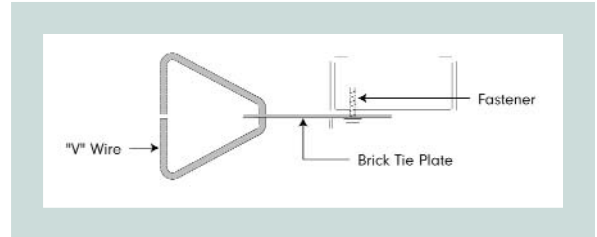
HDG - Hot-Dip-Galvanized after fabrication system.
ESS - Economical Stainless Steel system.

Both systems include "bayonet" style tie plates that attach directly to the web of the steel studs. This ensures that fasteners are located in the warm, dry cavity and loaded in shear.

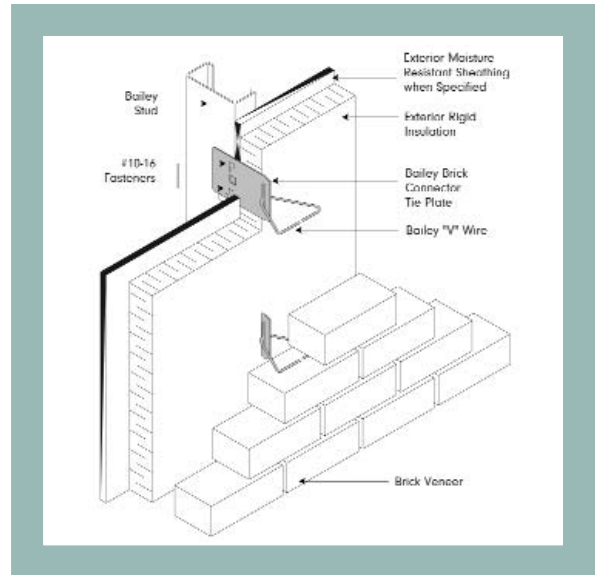
Tie plates are available in a variety of lengths to accommodate varying exterior sheathing/insulation thicknesses.

To simplify site coordination and ensure that brick connectors are included in the LSF Engineers design and shop drawings, brick connectors should be specified to be supplied and installed by the steel stud sub-contractor.

BRICK CONNECTOR COMPONENTS

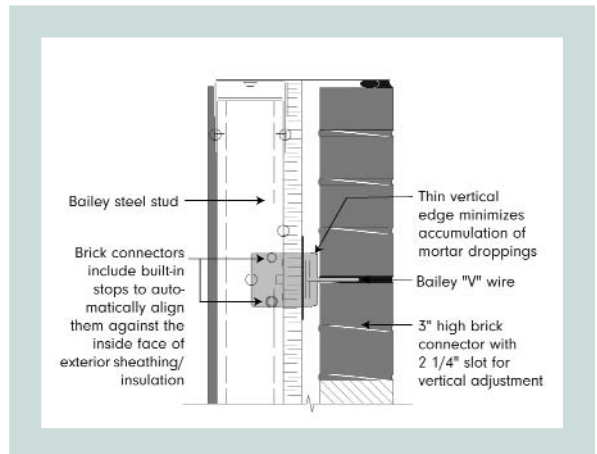


BRICK CONNECTOR IN USE



WIND BEARING STEEL STUD WALL WITH BRICK VENEER

(Air Barrier / Vapour Barrier Not Shown)



NOTE: All details are illustrations for ESS (HDG are similar)

3" BRICK TIE CONNECTORS

THICKNESS OF SHEATHING/INSULATION	ECONOMICAL STAINLESS STEEL	HOT-DIP GALVANIZED STEEL	STANDARD PACKAGE
1/2" OR 5/8"	ESS-3-05	HDG-3-05	125 pcs/ctn
1"	ESS-3-10	HDG-3-10	125 pcs/ctn
1 1/2"	ESS-3-15	HDG-3-15	125 pcs/ctn
2"	ESS-3-20	HDG-3-20	125 pcs/ctn
2 1/2"	ESS-3-25	HDG-3-25	125 pcs/ctn
3"	ESS-3-30	HDG-3-30	125 pcs/ctn
3 1/2"	ESS-3-35	HDG-3-35	125 pcs/ctn
4"	ESS-3-40	HDG-3-40	125 pcs/ctn
4 1/2"	ESS-3-45	HDG-3-45	125 pcs/ctn
5"	ESS-3-50	HDG-3-50	125 pcs/ctn

HDG BRICK TIE PLATES ARE HOT-DIP-GALVANIZED AFTER FABRICATION

"V" WIRE

AIR SPACE	ECONOMICAL STAINLESS STEEL	HOT-DIP GALVANIZED STEEL	STANDARD PACKAGE
1"	ESSW-1	HDGW-1	250 pcs/ctn
2"	ESSW-2	HDGW-2	250 pcs/ctn

HDG V-WIRES ARE HOT-DIP-GALVANIZED AFTER FABRICATION

STEEL FASTENER

SELF DRILLING HEX HEAD	ECONOMICAL STAINLESS STEEL	GALVANIZED STEEL	STANDARD PACKAGE
#10-16 X 3/4"	ESSF-1	HDGF-1	1000 pcs/ctn

SPECIFIER NOTE: Brick connectors may be supplied and installed by trade installing light weight steel framing.
SPECIFIER NOTE: Delete items not related to the project.

PART 1 - GENERAL

1.1 RELATED WORK

Specifier Note: In the related sections, reference this section for the specification of Brick Connectors for exterior Steel Stud/Brick Veneer wall systems.

- .1 04050 Basic Masonry Materials and Methods.
- .2 04060 Masonry Mortar.
- .3 04080 Masonry Anchorage and Reinforcement.
- .4 04210 Brick Unit Masonry.
- .5 07240 Exterior Insulation and Finish Systems (EIFS).
- .6 09250 Gypsum Board.

1.2 REFERENCES

- .1 CSA S304.1 Masonry Design for Buildings (Limit States Design).
- .2 CSA A370 Connectors for Masonry.
- .3 CSA A371 Masonry Construction for Buildings.

1.3 SUBMITTALS

- .1 Submit shop drawings indicating locations of brick connectors, including calculations, submitted under seal or professional engineer registered in work location [and requirements for coordination of adjoining work].
- .2 Submit product data for ties, wires & fasteners, indicating sizes, load capacities and type of corrosion protection.
- .3 Submit samples of ties, wires and fasteners.

PART 2 - PRODUCTS

2.1 GENERAL

Stainless steel brick connector system for steel stud back-up consisting of Bailey stainless steel brick tie, stainless steel wire and stainless steel fasteners as manufactured by Bailey Metal Products, One Caldari Road, Concord Ontario L4K 3Z9. Tel: (905) 738-9267 Fax: (905) 738-5712

2.2 MATERIALS

Specifier Note: Standard ESS Brick Connectors are available in a variety of slot lengths for vertical adjustments as well as for exterior sheathing thickness from 1/2" to 2" in 1/2" increments. Specify the appropriate Brick Connector for each application. Select connector height and sheathing thickness from choices shown. Example: ESS-3-10 is a 3" high ESS brick connector plate for 1" thick exterior sheathing. Non standard connector sizes are available; Contact Bailey Metal Products.

- .1 Metal Plate; ESS - [2][3] - [5][10][15][20] made from stainless steel to CSA A370-94.
- .2 "V" Wire; ESSW - [1][2] for [1"][2"] air space manufactured from stainless steel to CSA A370-94
- .3 Fasteners; ESSF 1, #10 - 16x3/4" Hex Head Self Drilling Screws made from stainless steel to CSA A370-94

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Install masonry connectors in accordance with CSA A370-94, CSA A371-94 and CSA S304.1-94 unless specified otherwise.
- .2 Attach Brick Connectors directly to the web of the steel stud with two screw fasteners as specified in 2.2.3.

End of Section

Bailey Metal Brick Connectors Exceed the Design and Architectural Requirements of the Following Codes.

NOTE: The technical data in this brochure is intended as an aid to the design professional and should not be used to replace the judgement of a qualified engineer or architect. Specification is for stainless (ESS) contact Bailey for HDG.

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