

MULTI-GUARD VENTILATION (MGV)[™]

FIRESHIELD[™]

WUI TESTED, LAB CERTIFIED



Ridge Vent



Gable Louvers



Roof Exhaust Vents



Foundation Vents



VISIT OUR
WEBSITE

PROTECTION FROM
WILDFIRES



LEARN MORE
ABOUT MGV



UNDERSTANDING THE THREAT • WUI FIRE SCIENCE

THE DANGERS WILDFIRES POSE

Every year, wildfires destroy thousands of homes and most don't burn from the outside in. The real threat arrives silently, carried on the wind, long before the flames.

WHAT IS THE WILDLAND URBAN INTERFACE (WUI)?

The Wildland-Urban Interface (WUI) is where homes and communities meet wildland vegetation the front line of wildfire risk. Over 46 million U.S. homes fall within designated WUI zones. Where proximity to natural fuel, limited escape routes, and older construction standards combine to make ember intrusion the leading cause of structure loss.

THE EMBER INTRUSION PATH

Burning embers—also called firebrands—begin from actively burning foliage, and are able to be carried several miles ahead of a wildfire through **wind** and **heat**. A single ember entering a vent, soffit, or attic screen can smolder undetected for hours inside insulation or dry framing before triggering a full structural fire.



WILDFIRE BURNS

Active fires generate intense heat, launching debris skyward.



EMBERS TRAVEL

Wind carries firebrands up to 5 miles ahead of the fire front.



ENTER VIA VENTS

Burning embers enter through standard vents, soffits, and attic screens.



SILENT IGNITION

Embers smolder inside walls and attics for hours before visible smoke.



1-5 miles

DISTANCE THAT BURNING EMBERS TRAVEL AHEAD OF A WILDFIRE.



90%

HOME IGNITIONS IN WUI AREAS CAUSED BY EMBER INTRUSION.



2 hours

TIME A SMOLDERING EMBER CAN BURN UNDETECTED INSIDE A WALL.

"Structure ignition from embers can occur even when a home is located miles from the active fire perimeter. The vents of a home are among the most critical and overlooked points of vulnerability."

— IBHS (INSURANCE INSTITUTE FOR BUSINESS & HOME SAFETY), WILDFIRE RESEARCH

THE STAGGERING COST OF WILDFIRES

- U.S. wildfires caused over **\$150B in total economic losses** in 2023 alone.
- The average WUI home destroyed by wildfire results in an insurance claim ranging anywhere from **\$500,000 up to \$900,000**.
- Homeowners in high-risk zones face premium increases from **50% up to 300%** — or **outright policy cancellation**.
- For every **\$1 spent** on ember-resistant retrofitting, studies estimate between **\$6 to \$13 in avoided losses**.

THE WILDFIRE REALITY

- From 2015 to 2025, over 80 million acres burned across the U.S.
- CAL FIRE and NFPA identify ember intrusion as **the #1 preventable source of ignition**.
- Section 504.10 of the 2025 California WUI Code **mandates ember resistant vents in all new WUI areas**.
- From 2016 to 2026, **over 102,000 structures were destroyed** from wildfires.



THE SOLUTION?

MULTI-GUARD VENTILATION (MGV)

ENGINEERED TO
STOP
WHAT OTHERS
LET THROUGH

Multi-Guard Vents (MGV) are **WUI tested** and **lab proven** as a strong and reliable first line of defense against ember intrusion, and is engineered to meet California's Title 24 and NFA standards without compromising on airflow.

Protected by U.S. Patent #12,560,351



WUI APPROVED

Meets CAL FIRE ember intrusion requirements for Wildland-Urban Interface construction.



LAB TESTED

Independently verified against ASTM E2886 & E2912 ember resistance and flame exposure protocols.



DURABLE CONSTRUCTION

Galvanized steel body, no petroleum-based components that melt or deform under radiant heat or flames.

HOW IT WORKS

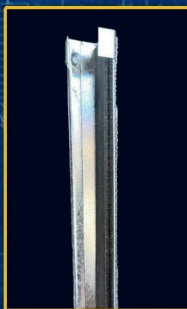
The Multi-Guard system implements a **layered** and **proactive** approach to wildfire hazards, forged from a combination of 1/16" mesh screening, intumescent strips, and galvanized steel blades. Together, they work to filter and extinguish burning embers and flames and other natural elements, all while maintaining the ventilation performance your building code requires.



01

EMBER MESH BARRIER

Two layers of 1/16" steel wire mesh, installed on each blade and the interior vent face, stops firebrands from entering the attic space. Built to meet WUI requirements while also maintaining proper airflow.



02

INTUMESCENT TAPE

Intumescent tape is a fire resistant material that expands under high temperatures to seal off the vent and block all forms of embers and flames from entering, and is installed in all MGVS.



03

STEEL CHEVRON BLADES

Patented chevron steel blades are engineered to deflect burning embers, redirect flame impingement, and prevent radiant heat from penetrating the wall or attic.

STANDARD VENTS vs MGV



STANDARD VENTS

- Mesh with common opening: allows embers to pass straight through.
- Plastic housing: deforms and melts under high heat.
- No response to rising temperatures: remains open as fire approaches.
- Not tested for ember or flame exposure under any building code.



MULTI-GUARD VENTS (MGV)

- Dual 1/16" steel mesh layers: WUI tested ember barrier that maintains proper airflow.
- Full metal construction: No risk of combustion or melting under extreme temperature.
- Intumescent strip expands to protect the vent automatically when temperatures rise.
- Patented design resists ember and flame intrusion, satisfying ASTM and WUI codes.

THE REALITY OF VENT FAILURE



STANDARD GABLE LOUVERS, EAVE, FOUNDATION, AND SOFFIT VENTS ARE THE **PRIMARY ENTRY POINTS** FOR BURNING EMBERS, AND THE **FIRST TO FAIL** WHEN FIRE ARRIVES.



DO YOU LIVE IN A WUI AREA?

CHECK IF YOUR PROPERTY IS LOCATED IN A WILDLAND-URBAN
INTERFACE ZONE AT THE U.S. FIRE ADMINISTRATION WEBSITE:



CERTIFICATIONS AND CODE COMPLIANCE:



MGV PRODUCT LIST

WUI-tested, fire-rated vents. All products manufactured from ASTM A-653 galvanized steel with 1/16" noncombustible mesh. Custom sizes and materials available upon request.

LOUVER VENTS - SQUARE-TOP

Part Number	Description	Appx. NFA
5420-1206-MGV	Louver, Square-Top, 12" x 6" Galv, Stucco*, MGv, 1/16" Mesh	25 sq in.
5420-1208-MGV	Louver, Square-Top, 12" x 8" Galv, Stucco*, MGv, 1/16" Mesh	35 sq in.
5420-1212-MGV	Louver, Square-Top, 12" x 12" Galv, Stucco*, MGv, 1/16" Mesh	50 sq in.
5420-1224-MGV	Louver, Square-Top, 12" x 24" Galv, Stucco*, MGv, 1/16" Mesh	100 sq in.
5320-MGV	Louver, Square-Top, 14" x 12" Galv, Stucco*, MGv, 1/16" Mesh	60 sq in.
5420-1414-MGV	Louver, Square-Top, 14" x 14" Galv, Stucco*, MGv, 1/16" Mesh	70 sq in.
5420-1416-MGV	Louver, Square-Top, 14" x 16" Galv, Stucco*, MGv, 1/16" Mesh	80 sq in.
5340-MGV	Louver, Square-Top, 14" x 18" Galv, Stucco*, MGv, 1/16" Mesh	90 sq in.
5360-MGV	Louver, Square-Top, 14" x 24" Galv, Stucco*, MGv, 1/16" Mesh	120 sq in.
5420-1616-MGV	Louver, Square-Top, 16" x 16" Galv, Stucco*, MGv, 1/16" Mesh	90 sq in.
5420-1624-MGV	Louver, Square-Top, 16" x 24" Galv, Stucco*, MGv, 1/16" Mesh	140 sq in.
5420-1818-MGV	Louver, Square-Top, 18" x 18" Galv, Stucco*, MGv, 1/16" Mesh	115 sq in.
5410-MGV	Louver, Square-Top, 18" x 24" Galv, Stucco*, MGv, 1/16" Mesh	155 sq in.

EAVE / FOUNDATION / SOFFIT VENTS

Part Number	Description	Appx. NFA
4500-MGV	Eave Vent, 14" x 3" Galv, Stucco*, MGv, 1/16" Mesh	20 sq in.
4620-MGV	Eave Vent, 22" x 3" Galv, Stucco*, MGv, 1/16" Mesh	30 sq in.
4780-MGV	Foundation Vent, 14" x 6" Galv, Stucco*, MGv, 1/16" Mesh	35 sq in.
4740-MGV	Foundation Vent, 22" x 6" Galv, Stucco*, MGv, 1/16" Mesh	55 sq in.
4960-MGV	Soffit Vent, 60" x 3" Galv, Stucco*, MGv, 1/16" Mesh	75 sq in.
4963-MGV	Soffit Vent, 60" x 3" Galv, Stucco*, MGv, 1/16" Mesh, w/ Hinges	75 sq in.
4970-MGV	Soffit Vent, 60" x 4" Galv, Stucco*, MGv, 1/16" Mesh	85 sq in.
4860-MGV	Soffit Vent, 72" x 3" Galv, Stucco*, MGv, 1/16" Mesh	90 sq in.
4865-MGV	Soffit Vent, 72" x 4" Galv, Stucco*, MGv, 1/16" Mesh	100 sq in.
4965-MGV	Soffit Vent, 120" x 3" Galv, Stucco*, MGv, 1/16" Mesh	130 sq in.
4890-MGV	Soffit Vent, 120" x 4" Galv, Stucco*, MGv, 1/16" Mesh	170 sq in.
4875-MGV	Soffit Vent, 120" x 6" Galv, Stucco*, MGv, 1/16" Mesh	260 sq in.

HALF-ROUND DORMER VENTS

Part Number	Description	Appx. NFA
5800-MGV	Half-Round Dormer, 9" x 18", Zinalume, MGv, 1/16" Mesh	36 sq in.
5840-MGV	Half-Round Dormer, 12" x 24", Zinalume, MGv, 1/16" Mesh	36 sq in.
5870-MGV	Half-Round Dormer, 9" x 18", Alum. Flanges, MGv, 1/16" Mesh	66 sq in.
5910-MGV	Half-Round Dormer, 12" x 24", Alum. Flanges, MGv, 1/16" Mesh	66 sq in.
5800-R	Half-Round Dormer, 9" x 18" Retrofit, Galv, MGv, 1/16" Mesh	45 sq in.
5870-R	Half-Round Dormer, 12" x 24" Retrofit, Galv, MGv, 1/16" Mesh	85 sq in.

EYEBROW VENTS

Part Number	Description	Appx. NFA
5800-MGV	EyeBrow Vent, 18" x 4", Galv Shingle Base, MGv, 1/16" Mesh	45 sq in.
5840-MGV	EyeBrow Vent, 18" x 4", Painted Shingle Base, MGv, 1/16" Mesh	45 sq in.
5870-MGV	EyeBrow Vent, 18" x 4" Retrofit, Galv, MGv, 1/16" Mesh	20 sq in.

LOW PROFILE GLIDER VENTS

Part Number	Description	Appx. NFA
6026-MGV	Glider Vent, 22" x 2-1/2" Galv Shingle Base, MGv, 1/16" Mesh	45 sq in.
6026-P-MGV-PFF	Glider Vent, 22" x 2-1/2" Painted Shingle Base w/ Painted Front Flange, MGv, 1/16" Mesh	45 sq in.
6028-MGV	Glider Vent, 22" x 2-1/2" Galv Shake Base, MGv, 1/16" Mesh	45 sq in.
6028-P-MGV-PFF	Glider Vent, 22" x 2-1/2" Painted Shake Base w/ Painted Front Flange, MGv, 1/16" Mesh	45 sq in.
6028-MGV-A	Glider Vent, 22" x 2-1/2" Galv Shake Base w/ Aluminum Flanges, MGv, 1/16" Mesh	45 sq in.
6028-P-MGV-A	Glider Vent, 22" x 2-1/2" Painted Shake Base w/ Aluminum Flanges, MGv, 1/16" Mesh	45 sq in.
6026M-MGV	Glider-M Vent, 10" x 2-1/2" Galv Shingle Base, MGv, 1/16" Mesh	30 sq in.
6026M-P-MGV-PFF	Glider-M Vent, 10" x 2-1/2" Painted Shingle Base w/ Painted Front Flange, MGv, 1/16" Mesh	30 sq in.
6028M-MGV	Glider-M Vent, 10" x 2-1/2" Galv Shake Base, MGv, 1/16" Mesh	30 sq in.
6028M-P-MGV-PFF	Glider-M Vent, 10" x 2-1/2" Painted Shake Base w/ Painted Front Flange, MGv, 1/16" Mesh	30 sq in.

* Multiple styles available — Stucco (PG) • Flange on Front (FOF)
Flange on Back (FOB) • Retrofit • Ears In/Out • Painted Front Flange (PFF)

METAL RIDGE VENTS

Part Number	Description	Appx. NFA
6900-MGV	Ridge Vent, 26ga Galv Hood and End Caps, 34" long, MGv	50 sq in.
6900-P-MGV	Ridge Vent, 26ga Painted Hood and End Caps, 34" long, MGv	50 sq in.
6900-BZ-MGV	Ridge Vent, 26ga Bonderized Hood and End Caps, 34" long, MGv	50 sq in.
6900-K-MGV	Ridge Vent, 24ga Kynar® Hood and End Caps, 34" long, MGv	50 sq in.

GRAVITY VENTS WITH MGv INSERT

Part Number	Description	Appx. NFA
6040-1010-MGV	Gravity Vent, 10" x 10" Galv, MGv, 1/16" Mesh	40 sq in.
6040-1212-MGV	Gravity Vent, 12" x 12" Galv, MGv, 1/16" Mesh	50 sq in.
6040-1414-MGV	Gravity Vent, 14" x 14" Galv, MGv, 1/16" Mesh	70 sq in.
6040-1616-MGV	Gravity Vent, 16" x 16" Galv, MGv, 1/16" Mesh	90 sq in.
6040-1818-MGV	Gravity Vent, 18" x 18" Galv, MGv, 1/16" Mesh	115 sq in.
6040-2020-MGV	Gravity Vent, 20" x 20" Galv, MGv, 1/16" Mesh	140 sq in.
6040-2222-MGV	Gravity Vent, 22" x 22" Galv, MGv, 1/16" Mesh	170 sq in.
6040-2424-MGV	Gravity Vent, 24" x 24" Galv, MGv, 1/16" Mesh	210 sq in.

WALL CAPS / SIDE HOODS

Part Number	Description	Appx. NFA
5000-MGV	Wall Cap / Side Hood, 4" x 4" Galv, MGv, 1/16" Mesh	7 sq in.
5020-MGV	Wall Cap / Side Hood, 7" x 7" Galv, MGv, 1/16" Mesh	20 sq in.
5040-MGV	Wall Cap / Side Hood, 10" x 3-1/2" Galv, MGv, 1/16" Mesh	15 sq in.

ROOF EXHAUST VENTS

Part Number	Description	Appx. NFA
6040-1414-MGV	Roof Exhaust, 4" Galv Hood+Flange, Tile Hook, MGv, 1/16" Mesh	CFM
6040-1818-MGV	Roof Exhaust, 6" Galv Hood+Flange, Tile Hook, MGv, 1/16" Mesh	CFM

CRAWL HOLE DOORS

Part Number	Description	Appx. NFA
6040-1414-MGV	Crawl Hole Door, 24" x 18" Galv, Door & Frame, MGv, Side Hinge	155 sq in.
6040-1818-MGV	Crawl Hole Door, 24" x 24" Galv, Door & Frame, MGv, Side Hinge	210 sq in.

ROTARY TURBINE VENT BASES

Part Number	Description	Appx. NFA
6685-MGV	Rotary Vent, 14" Galv, Flat Base w/ MGv Insert, 1/16" Mesh	CFM
6705-MGV	Rotary Vent, 18" Galv, Flat Base w/ MGv Insert, 1/16" Mesh	CFM
6715-MGV	Rotary Vent, 20" Galv, Flat Base w/ MGv Insert, 1/16" Mesh	CFM

ROOF JACK T-TOPS

Part Number	Description	Appx. NFA
6221E-M-MGV	T-Top, 4" Galv, FHA Base, w/ End Caps & Mesh, MGv, 1/16" Mesh	15 sq in.
6301E-M-MGV	T-Top, 7" Galv, FHA Base, w/ End Caps & Mesh, MGv, 1/16" Mesh	40 sq in.

* Multiple colors available — Brown (B) • Charcoal (C)
Gray (G) • Terra Cotta (T) • White (W)

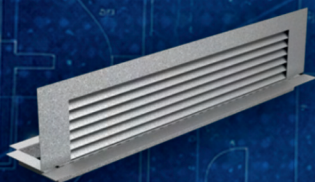
EAVE / SOFFIT / FOUNDATION VENTS



Another style of the patented MGVS, offering the same level of protection with 1" depth for eave, soffit, and foundation applications. Designed with galvanized steel, 1/16" metal wire mesh, and intumescent tape. US Patent No. 12,560,351. WUI TESTED.

PART #4500-MGV16	14" W x 3" H · Vent Area 42 sq in NFA 20 sq in
PART #4780-MGV16	14" W x 6" H · Vent Area 84 sq in NFA 35 sq in
PART #4965-MGV16	120" W x 3" H · Vent Area 360 sq in NFA 130 sq in
MATERIAL	ASTM A-653 galvanized steel 1" deep 1" flange

HINGED BALCONY INSPECTION
BALCONY ACCESS VENT



Engineered for easy access and hassle-free inspections. Lab tested to stand strong against WUI environments with certified fire and ember resistance.

PART #4963-MGV16	60" W x 3" H · Vent Area 180 sq in NFA 65 sq in
MATERIAL	ASTM A-653 galvanized steel 1" flange

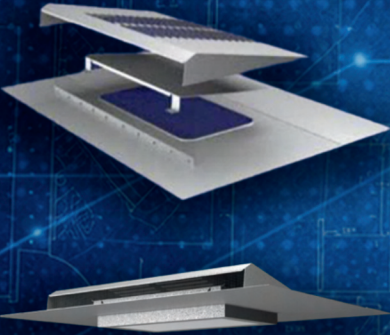
GABLE LOUVERS

The patented louver vent is designed to withstand airborne burning embers, flame impingement, and radiant heat while allowing proper airflow. Designed with 26 gauge ASTM A-653 galvanized steel, 1/16" metal wire mesh, and intumescent tape. US Patent No. 12,560,351. WUI TESTED.

PART #5320-MGV16	14" W x 12" H · Vent Area 168 sq in · NFA 60 sq in
PART #5340-MGV16	14" W x 18" H · Vent Area 252 sq in · NFA 90 sq in
PART #5360-MGV16	14" W x 24" H · Vent Area 336 sq in · NFA 120 sq in
MATERIAL	ASTM A-653 galvanized steel · 2" deep 1-1/2" flange



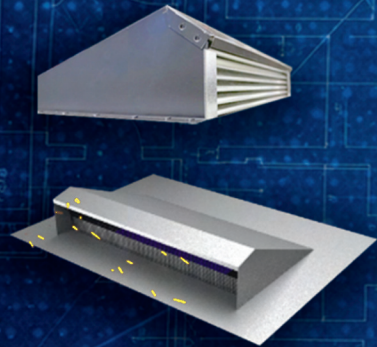
*All MGVS have 1/16 steel mesh wire



**LOW PROFILE GLIDER VENT
WITH OPTIONAL WUI TESTED
MGV SUB-BASE**

Patented low-profile, high airflow roof vent with preinstalled front flange (optional painted front flange). Standard option screened with 1/8" mesh. WUI tested option uses 1/16" metal wire mesh with intumescent strips. For roofs 4:12 pitch or above. US Patent No. 9,447,583.

SHG BASE — REG/LRG	Regular · 30" L x 22" W
#6026 / #6027	Large · 34" L x 22" W
SHK BASE — REG/LRG	Regular · 30" L x 28" W
#6028 / #6029	Large · 34" L x 28" W
SHK BASE, ALUMINUM FLANGE FOR TILE ROOF	40" L x 32" W
FRONT FACE	22" W x 2-1/2" H · NFA 69 sq in
HOOD MATERIAL	ASTM A-653 galvanized steel or ASTM A-792 Galvalume (mill finish or prepainted)
MGV SUB BASE PART #602X-MGV	14" L x 7-1/2" W · NFA 45 sq



**EYEBROW VENT
WITH OPTIONAL MGV SUB BASE &
RETROFIT FACE**

Low-profile eyebrow roof vent with hood styles available in ASTM A-653 galvanized steel (mill finish or prepainted). Standard option screened with 1/8" mesh. WUI tested sub base and retrofit face uses 1/16" metal wire mesh with intumescent strips. Designed for roofs 4:12 pitch or above.

SHG BASE #6032	30" L x 22" W
SHK BASE #6034	30" L x 28" W
FRONT FACE	18" W x 4" H
HOOD MATERIAL	ASTM A-653 galvanized steel or ASTM A-792 Galvalume (mill finish or prepainted)
MGV SUB BASE/INSERT PART #6032-MGV	14" L x 7-1/2" W · NFA 45 sq in
MGV RETROFIT FACE PART #6032-R	17-1/2" L x 2-3/8" W · NFA 20 sq in

**HALF-ROUND DORMER VENTS
WITH OPTIONAL MGV SUB BASE/INSERT & RETROFIT FACE**

Designed with return-angle blades and sealed with polyurethane sealant, preventing leakage and maximizing airflow. Standard option screened with 1/8" mesh. WUI tested sub base/insert and retrofit face uses 1/16" metal wire mesh and intumescent strips. For roofs 4:12–6:12 pitch.



PART #5800	18" W x 9" H · NFA 50 sq in	MGV SUB BASE/INSERT PART #5800-MGV	9" L x 10" W x 2" D · NFA 36 sq in
PART #5870	24" W x 12" H · NFA 100 sq in	PART #5870-MGV	11-1/2" L x 15" W x 2" D · NFA 66 sq in
HOOD MATERIAL	ASTM A-792 Galvalume	RETROFIT FACE SPECS PART #5800-R	18-1/2" W x 9" H x 4" D · NFA 45 sq in
FLANGE MATERIAL	A-653 Galvanized Steel or Dead Soft Aluminum	PART #5870-R	24-1/2" W x 12" H x 4" D · NFA 85 sq in

*All MGVs have 1/16 steel mesh wire



GRAVITY VENT WITH MGV INSERT
GRAVITY VENTILATION FOR COMMERCIAL ROOFS

Gravity vents use natural convection to expel hot air from the attic. The WUI tested insert (louver with flange on front/back) adds 1/16" galvanized mesh and intumescent protection to the base, blocking ember intrusion while maintaining airflow. Designed for flat and low-slope roof applications.

PART #6040-1010-MGV	10" L x 10" W roof opening NFA 40 sq in
PART #6040-1212-MGV	12" L x 12" W roof opening NFA 50 sq in
PART #6040-1414-MGV	14" L x 14" W roof opening NFA 70 sq in
PART #6040-1818-MGV	18" L x 18" W roof opening NFA 115 sq in
PART #6040-2424-MGV	24" L x 24" W roof opening NFA 210 sq in



ROTARY VENT BASE
ROTARY TURBINE VENTILATION

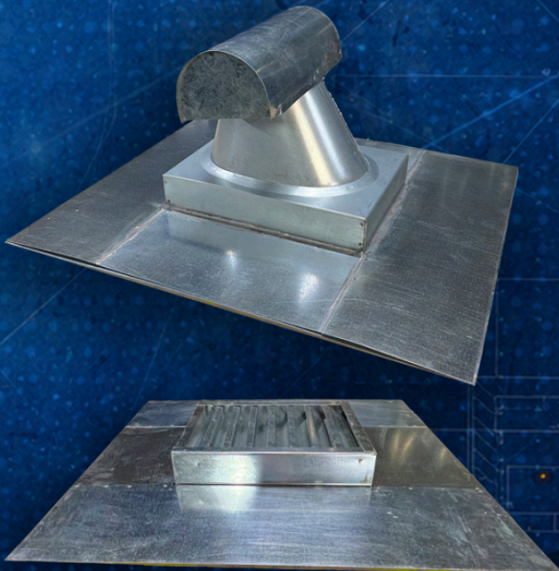
The rotary turbine ventilator uses wind energy to create continuous suction, drawing hot air and moisture out of the attic without electricity. The MGV base and insert adds ember and flame protection to the vent, making it compliant for use in Wildland-Urban Interface zones. Available for flat roofs, sloped roofs, and ridge/curb installations.

SIZES AVAILABLE	12" L x 12" W — 30" L x 30" W
VENT BASE HOUSING	26ga ASTM A-653 galvanized steel with 1/16" galvanized wire mesh and intumescent strips
APPLICATIONS	Flat Roof · Sloped Roof · Ridge · Curb

T-TOP WITH MGV SUB-BASE
ROOF VENT

T-top roof vents are designed for use on flat and sloped roofs up to 5:12 pitch, providing reliable exhaust ventilation for plumbing and mechanical systems. The MGV option features a louvered design with 1/16" galvanized mesh and intumescent strip installed at the bottom of the neck, blocking ember intrusion at the roof penetration point. Seams are sealed via hot solder for a weathertight fit.

PART #6221-MGV	4" Neck · 8" L x 11" W x 2" D MGV Base · NFA 15 sq in
PART #6301-MGV	4" Neck · 12" L x 12" W x 2" D MGV Base · NFA 40 sq in
MATERIAL	ASTM A-653 galvanized steel · seams sealed via hot solder
MODIFICATIONS	End Caps · Neck Mesh · FHA/Aluminum Flanges
APPLICATION	Flat and sloped roofs up to 5:12 pitch · Southern CA market



*All MGVs have 1/16 steel mesh wire

ROOF EXHAUST VENT



Rooftop bathroom/kitchen exhaust vents with MGV technology installed on the face and a raised inside duct lip. Together, they provide WUI tested functionality while also removing the need for a damper plate.

PART #5171-MGV	19" x 22" flange with 4" duct
PART #5191-6-MGV	29" x 22" flange with 6" duct
MATERIAL	ASTM A-653 galvanized steel
PROFILE	4" W x 6" H exhaust face with 3/4" elevated inside lip · For residential and commercial applications

CRAWL HOLE DOOR
CRAWL SPACE ACCESS



Uses the same design as the WUI tested MGV gable louvers to block ember intrusion and protect against flame and radiant heat, while allowing access to key entry points of the home.

PART #4350-MGV	18" W x 24" H x 2" D NFA 155 sq in
PART #4390-MGV	24" W x 24" H x 2" D NFA 210 sq in
DOOR STYLE	Hinged or Removable
MATERIAL	ASTM A-653 galvanized steel 1-1/2" flange

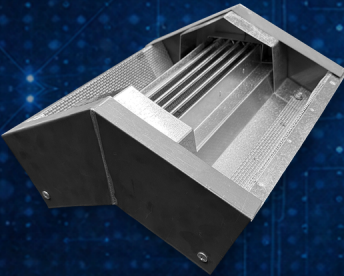
WALL CAP VENT

Wall caps with Able's patented MGV technology built into the stucco flange. Designed to work for both intake and exhaust applications at the foundation level, making it a preferred upgrade for enhanced fire safety in WUI areas.



PART #5000-MGV	4" W x 4" H x 5-1/8" D · NFA 7 sq in
PART #5020-MGV	7" W x 7" H x 4-3/4" D · NFA 20 sq in
PART #5040-MGV	10" W x 3-1/2" W x 4-1/8" D NFA 15 sq in
MATERIAL	ASTM A-653 galvanized steel 1" stucco flange

RIDGE VENT



Ridge vents with Able's MGV technology built into the vent openings. Installed along the roof peak to exhaust hot attic air while blocking ember intrusion and protecting against flame and radiant heat in WUI areas.

PART #6900-MGV	34" L x 12" W NFA 50 sq in
PROFILE	Roof ridge installation
MATERIAL OPTIONS	ASTM A-653 galvanized steel Prepainted steel Bonderized steel Kynar® 500

*All MGVs have 1/16 steel mesh wire



**CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING & INVESTIGATIONS DIVISION
BUILDING MATERIALS LISTING PROGRAM**

LISTING SERVICE

LISTING No.:	8165-2363:0002
CATEGORY:	8165 - VENTS FOR WILDLAND URBAN INTERFACE (W.U.I.)
LISTEE:	Able Sheet Metal 614 N. Ford Blvd., Los Angeles, CA, 90022 Contact: Tovmasyan, Gurgun 3233976926 Email: ablemetal@yahoo.com
DESIGN:	Model MGVS Style Soffit Vents: 4500-MGV16 soffit vent (3" x 14"), 4620-MGV16 (3" x 22"), 4960-MGV16 (3" x 60"), 4965-MGV16 (3" x 120"), *4780-MGV16 (6" x 14"), *4740-MGV16 (6" x 22"), *4870-MGV16 (6" x 72"), *4875-MGV16 (6" x 120"), *4440-MGV16 (12" x 12"). Products are manufactured from 26 gauge, G90 galvanized steel with Promat PROMASEAL-LFC Flexible Intumescent Strips installed on each louver blade and 1/16-inch galvanized steel mesh on the interior side. Refer to manufacturer's installation instructions and product data sheets.
RATING:	Tested in accordance with ASTM E2886-14 and *ASTM E2912-17
APPROVAL:	Listed as soffit vent for use in the Wildland Urban Interface Areas for horizontal and *vertical installation only. Refer to listee's Installation Instruction Manual for details. Model complies with the applicable requirements in ASTM E2886-14 and ASTM E2912-17.

LISTING No.:	8165-2363:0003
CATEGORY:	8165 - VENTS FOR WILDLAND URBAN INTERFACE (W.U.I.)
LISTEE:	Able Sheet Metal 614 N. Ford Blvd., Los Angeles, CA, 90022 Contact: Tovmasyan, Gurgun 3233976926 Email: ablemetal@yahoo.com
DESIGN:	Model MGVS Style Louver Vents: 5420-1206-MGV (12" x 6"), 5420-1208-MGV (12" x 8"), 5420-1212-MGV (12" x 12"), 5420-1224-MGV (12" x 24"), 5320-MGV (14" x 12"), 5420-1414-MGV (14" x 14"), 5420-1416-MGV (14" x 16"), 5340-MGV (14" x 18"), 5360-MGV (14" x 24"), 5420-1616-MGV (16" x 16"), 5420-1624-MGV (16" x 24"), 5405-1818-MGV (18" x 18"), 5410-MGV (18" x 24"). Products are manufactured from 26 gauge (0.018") galvanized steel frame and louvers, a Promat PROMASEAL-LFC Flexible Intumescent Strip adhered at the top of each vent, a primary 1/16-inch galvanized steel mesh on the interior face, and secondary meshes between each louver blade. Refer to manufacturer's installation instructions and product data sheets.
RATING:	Tested in accordance with ASTM E2886-14 and ASTM E2912-17
APPROVAL:	Listed as gable louver vents for use in the Wildland Urban Interface Areas for horizontal and vertical installation only. Refer to listee's Installation Instruction Manual for details. Model complies with the applicable requirements in ASTM E2886-14 and ASTM E2912-17.



These listings are based upon technical data submitted by the applicant. OSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. These listings are not an endorsement or recommendation of the item listed. These listings should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

**BUILDING PRODUCT LISTING PROGRAM**

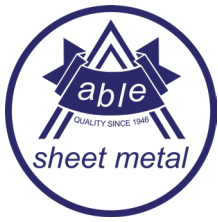
Customer: Able Sheet Metal
 Class: Soffit Vents, and Fixed Louvers
 Location: Los Angeles, CA
 Website: www.ablemetal.com

Listing No. B1173-1

Standards: ASTM E2886/E2886M-20 *Standard Test Method for Evaluating the Ability of Exterior Vents to Resist the Entry of Embers and Direct Flame Impingement.*
 ASTM E2912-17 *Fire Test of Non-Mechanical Fire Dampers Used in Vented Construction*

Product: MGV (Multi-Guard Vent) Style Louver Vent and MGV Style Eave/Foundation/Soffit Vents

Model Number	Flange, Size, inches	Body Size (width x length), inches	Model Number	Flange, Size, inches	Body Size (width x length), inches
Soffit Vents					
4500-MGV16	1	3 x 14	4780-MGV16	1	6 x 14
4620-MGV16	1	3 x 22	4740-MGV16	1	6 x 22
4960-MGV16	1	3 x 60	4980-MGV16	1	6 x 60
4963-MGV16	1	3 x 60 for balcony inspections	4870-MGV16	1	6 x 72
4860-MGV16	1	3 x 72	4875-MGV16	1	6 x 120
4965-MGV16	1	3 x 120	4440-MGV16	1	12 x 12
4970-MGV16	1	4 x 60			
4865-MGV16	1	4 x 72			
4890-MGV16	1	4 x 120			
Louver Vents					
5420-1206-MGV16	1	12 x 6	5420-1208-MGV16	1	12 x 8
5420-1212-MGV16	1	12 x 12	5420-1224-MGV16	1	12 x 24
5320-MGV16	1	14 x 12	5420-1414-MGV16	1	14 x 14
5420-1416-MGV16	1	14 x 16	5340-MGV16	1	14 x 18
5360-MGV16	1	14 x 24	5420-1616-MGV16	1	16 x 16
5420-1624-MGV16	1	16 x 24	5405-1818-MGV16	1	18 x 18
5410-MGV16	1	18 x 24			



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FAX: (510) 483-9960

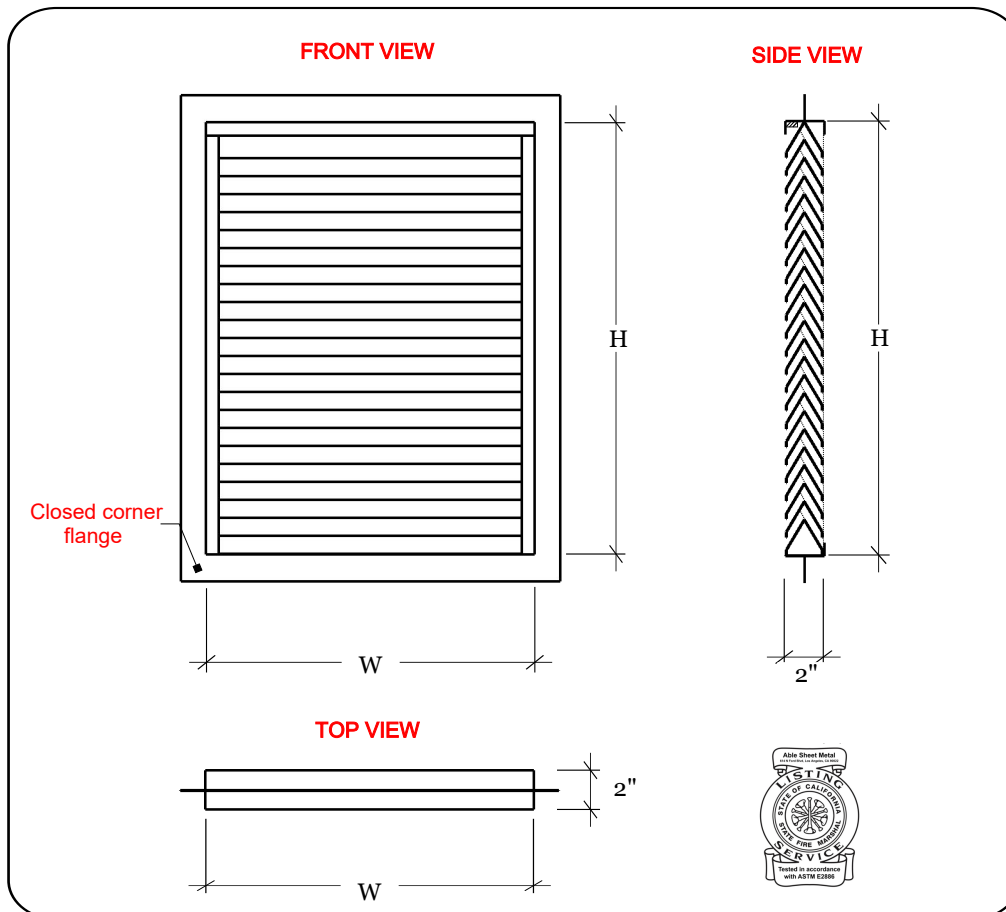


WUI TESTED FIRE RESISTANT MULTI-GUARD LOUVER VENT (MGV)

US PATENT #12,560,351

PRODUCED FROM TOP-QUALITY ASTM A-653 GALVANIZED STEEL. DESIGN ALLOWS FOR HIGH AIR FLOW WITH RESTRICTION OF DIRECT HEAT/FLAME PENETRATION. GUARDED BY 1/16" METAL MESH AND INTUMESCENT TAPE. TESTED & CERTIFIED BY CAL-FIRE APPROVED LAB FOR ASTM E2886 AND E2912 STANDARDS. WUI COMPLIANT. OTHER STYLES, MATERIALS (BONDERIZED, STAINLESS STEEL, COPPER) AVAILABLE UPON REQUEST.

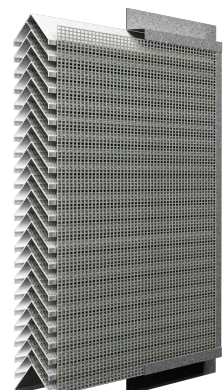
PART NUMBER	WIDTH	HEIGHT	VENT AREA	APPX. NFA
5320-MGV16	14"	12"	168 sq in.	60 sq in.
5340-MGV16	14"	18"	252 sq in.	90 sq in.
5360-MGV16	14"	24"	336 sq in.	120 sq in.



FRONT 3D VIEW



BACK 3D VIEW





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WUI TESTED FIRE RESISTANT MULTI-GUARD VENT (MGV) FOR EAVE, FOUNDATION, SOFFIT, AND BALCONY SPACES

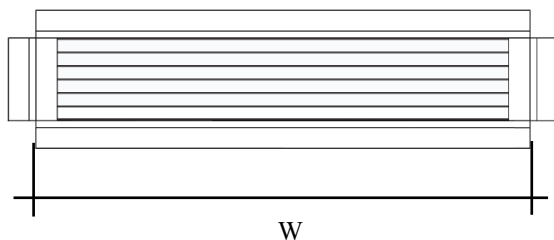
US PATENT #12,560,351

PRODUCED FROM TOP-QUALITY ASTM A-653 GALVANIZED STEEL. DESIGN ALLOWS FOR HIGH AIR FLOW WITH RESTRICTION OF DIRECT HEAT/FLAME PENETRATION. GUARDED BY 1/16" GALVANIZED OR STAINLESS STEEL MESH AND INTUMESCENT TAPE. TESTED/CERTIFIED BY CAL FIRE APPROVED LAB FOR ASTM E2886 AND E2912 STANDARDS. OTHER STYLES, SIZES, AND MATERIALS (BONDERIZED, STAINLESS STEEL, COPPER) AVAILABLE UPON REQUEST.

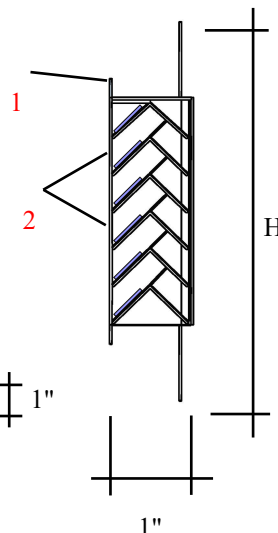
PART NUMBER	WIDTH	HEIGHT	VENT AREA	APPX. NFA
4500-MGV16	14"	3"	42 sq in.	20 sq in.
4780-MGV16	14"	6"	84 sq in.	35 sq in.
4965-MGV16	120"	3"	360 sq in.	130 sq in.

***For NFA approximations on any opening size, multiply the length of the vent by its height (excluding any flanges) and take 36% of that value.**

FRONT VIEW



SIDE VIEW



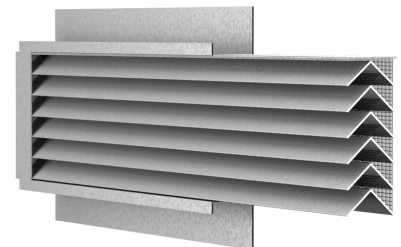
TOP VIEW



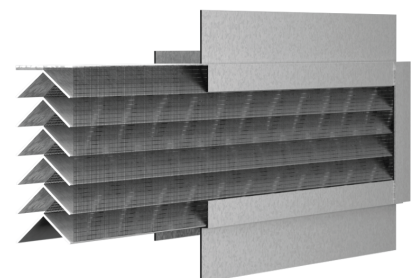
1 - Intumescent Tape

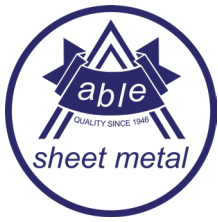
2 - Ember Guards

FRONT 3D VIEW



BACK 3D VIEW





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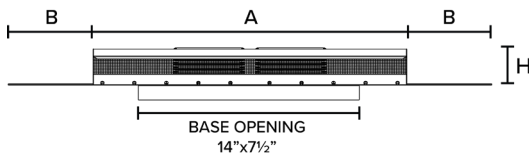


GLIDER* LOW PROFILE VENT WITH OPTIONAL WUI TESTED MGVSUB BASE

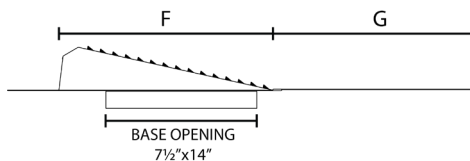
DESIGNED WITH HIGH PROFILE MATERIALS (ASTM A-653 GALVANIZED STEEL OR ASTM A-792 GALVALUME). COMES PREINSTALLED WITH FRONT FLANGE (AVAILABLE IN GALVANIZED OR PREPAINTED OPTIONS). STANDARD OPTION IS SCREENED WITH 1/8" METAL MESH, WUI TESTED OPTION WITH 1/16" WIRE MESH. DESIGNED FOR ROOFS WITH 4:12 PITCH OR ABOVE. CERTIFIED RESISTANCE TO FIRE (CBC CHAPTER 7A, CODE 706A2.1), RAIN, WIND, AND CORROSION (TAS 100-23(A)). SUB BASE DESIGN IS FITTED WITH INTUMESCENT STRIP AND TWO LAYERS OF 1/16" METAL WIRE MESH, AND IS TESTED AND CERTIFIED BY CALFIRE APPROVED LABS FOR ASTM E2886 AND E2912 STANDARDS IN WUI COMPLIANCE. SPECIAL STYLES, SIZES & MATERIALS (PREPAINTED, BONDERIZED, ALUMINUM, COPPER, LEAD) AVAILABLE UPON REQUEST. *U.S. PATENTS 9,447,583 AND 12,560,351.

PART NUMBER	A	B	C	D	E	F	G	H	MESH SIZE	APPX. NFA
6026-ER / 6027-ER (SHG BASE, REG/LRG SIZE)	22	4/6	30/34	5	5.5	17	6	2.5	1/8"	69
6028-ER / 6029-ER (SHK BASE, REG/LRG SIZE)	22	4/6	30/34	5	5.5	17	12	2.5	1/8"	69
6028-ER-A (SHK BASE, ALUM FLANGES)	22	8	38	5	5.5	23	12	2.5	1/8"	69
W/ MGVSUB BASE	22	4/6	30/34/38	5	5.5	17	6/12	4.5	1/16"	45

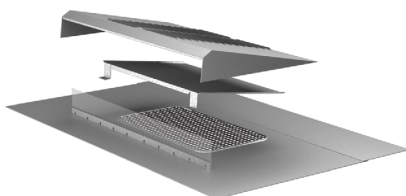
FRONT VIEW



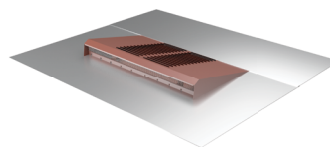
SIDE VIEW



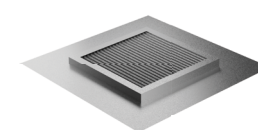
3D VIEW



GLIDER DISSECTION

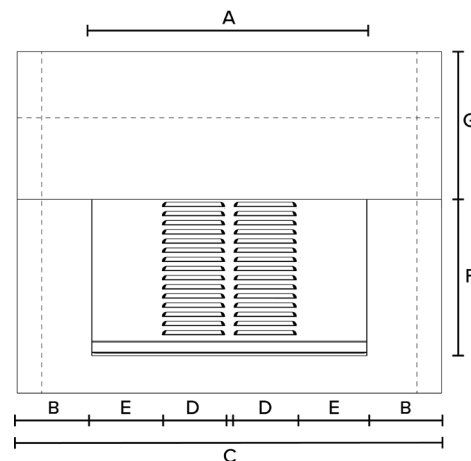


W/ ALUM FLANGES



WUI SUB BASE
(ATTACHED TO BOTTOM)

TOP VIEW





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WUI TESTED MGV RIDGE VENT

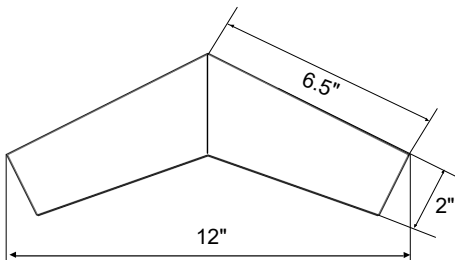
CONSTRUCTED FROM 20 TO 26 GAUGE ASTM A653 GALVANIZED STEEL. THE WUI-COMPLIANT VENTING SECTION INCORPORATES INTUMESCENT STRIPS, TWO LAYERS OF 1/16" METAL MESH, AND HAS BEEN TESTED AND CERTIFIED BY A CAL FIRE-APPROVED LABORATORY TO ASTM E2886 AND E2912 STANDARDS. DESIGNED FOR INSTALLATION ON RIDGES OF ROOFS WITH PITCHES FROM 3/12 TO 10/12. REGULAR AND HIGH PITCH CAPS ARE AVAILABLE IN GALVANIZED, BONDERIZED, PREPAINTED, AND IN MULTIPLE COLORS OF KYNAR® 500 PAINTED METAL. CUSTOM SIZES ARE AVAILABLE UPON REQUEST.

PART NUMBER	TOTAL LENGTH	TOTAL WIDTH	VENT WIDTH	OPEN SIDE HEIGHT**	VENT HEIGHT	APPROX. NFA
6900-MGV	34"	12"	3"	2"	1"	50 sq in.
6900-P-MGV	34"	12"	3"	2"	1"	50 sq in.
6900-BZ-MGV	34"	12"	3"	2"	1"	50 sq in.

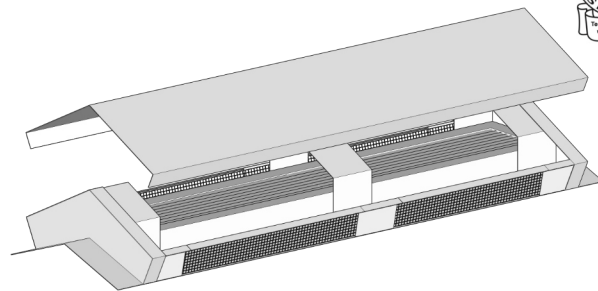
* PRIOR TO ANY BENDING FOR ROOFTOP INSTALLATION

** SIDE FACE OF THE VENT COVERED WITH METAL WIRE MESH (SHOWN IN BLACK IN THE SKETCHES BELOW)

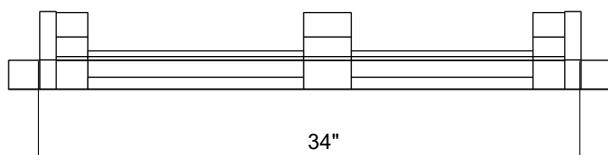
FRONT VIEW OF TOP



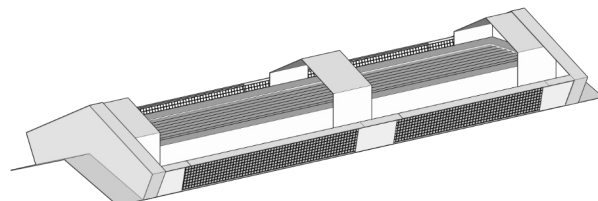
VIEW WITH TOP LID



SIDE VIEW



OPEN TOP VIEW





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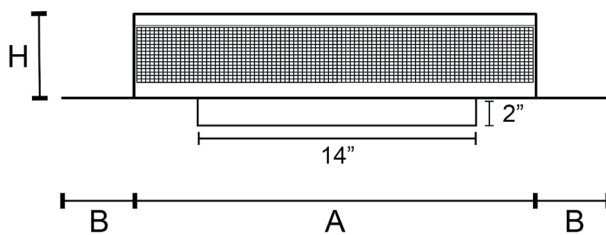


LOW PROFILE EYEBROW VENT WITH OPTIONAL WUI TESTED MGVSUB BASE

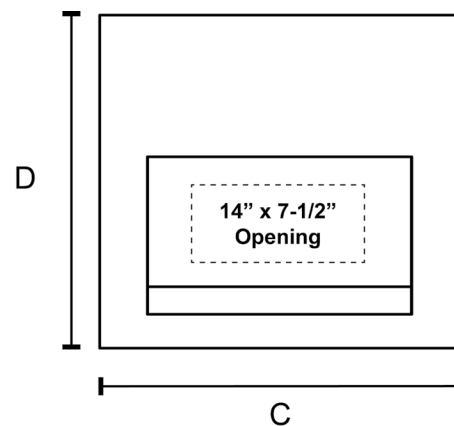
DESIGNED WITH HIGH PROFILE MATERIALS (ASTM A-653 GALVANIZED STEEL OR ASTM A-792 GALVALUME). SCREENED WITH 1/8" OR 1/16" GALVANIZED WIRE MESH. DESIGNED FOR ROOFS WITH 4:12 PITCH OR ABOVE. CERTIFIED RESISTANCE TO FIRE (CBC CHAPTER 7A, CODE 706A2.1), RAIN, WIND, AND CORROSION (TAS 100-23(A)). SUB BASE DESIGN IS FITTED WITH INTUMESCENT STRIP AND TWO LAYERS OF 1/16" METAL WIRE MESH, AND IS TESTED AND CERTIFIED BY CALFIRE APPROVED LABS FOR ASTM E2886 AND E2912 STANDARDS IN WUI COMPLIANCE. SPECIAL STYLES, SIZES & MATERIALS (PREPAINTED, COPPER, LEAD) AVAILABLE UPON REQUEST.

PART NUMBER	A	B	C	D	E	F	G	H	MESH SIZE	APPX. NFA
6032 (SHG BASE)	18	6	30	21.75	4	13	6	4	1/8"	45
6034 (SHK BASE)	18	6	30	21.75	4	13	12	4	1/8"	45
W/ MGVSUB BASE	18	8	30	21.75	4	13	6/12	4	1/16"	45

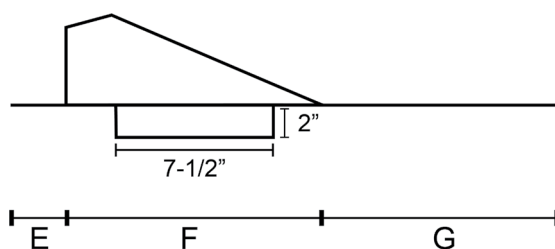
FRONT VIEW



TOP VIEW



SIDE VIEW





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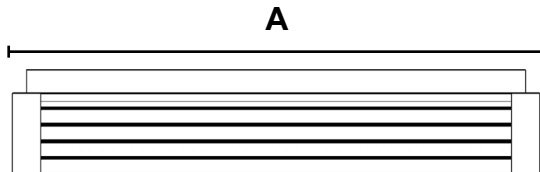


WUI TESTED MGV RETROFIT FACE FOR EYEBROW VENTS

DESIGNED WITH HIGH PROFILE ASTM A-653 GALVANIZED STEEL. INTENDED FOR INSTALLATION ON FRONT OPENING OF LOW PROFILE DORMER VENTS (EYEBROW VENTS). RETROFIT DESIGN IS FITTED WITH INTUMESCENT STRIP AND TWO LAYERS OF 1/16" METAL WIRE MESH. LAB TESTED IN WUI COMPLIANCE FOR ASTM E2886 AND E2912 STANDARDS. SPECIAL STYLES, SIZES & MATERIALS (PREPAINTED, COPPER, LEAD) AVAILABLE UPON REQUEST. FAST INSTALLATION & REPLACEMENT.

PART NUMBER	A	B	C	D	E
6032-R	15.5	17.5	0.625	2.375	1

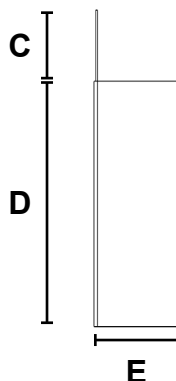
FRONT VIEW



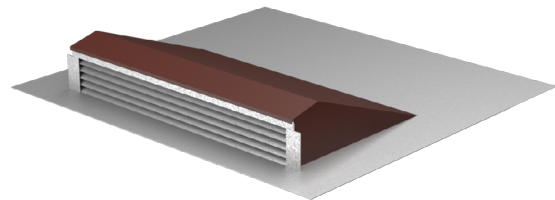
TOP VIEW

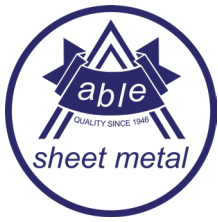


SIDE VIEW



3D VIEW





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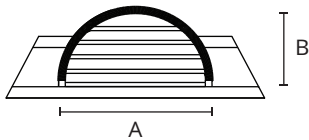
HALF-ROUND DORMER (HRD) ROOF VENT WITH MGV STYLE WUI TESTED SUB BASE

DESIGNED WITH HIGH PROFILE MATERIALS (ASTM A-653 GALVANIZED STEEL, OR ASTM A-792 GALVALUME). RETURN ANGLE ON BLADES PREVENTS LEAKAGE. PRODUCT DESIGN ALLOWS FOR MAXIMUM AIR FLOW. SCREENED WITH 1/8" OR 1/16" GALV HARDWARE MESH OR FLAT EXPANDED METAL. SEALED WITH POLYURETHANE SEALANT. INTENDED FOR USE ON ROOFS FROM 4:12 TO 6:12 PITCH. SPECIAL STYLES, SIZES & MATERIALS (ALUMINUM, COPPER, LEAD) AVAILABLE BY REQUEST.

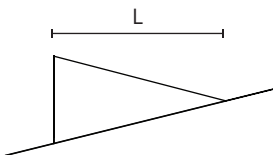
HRD CATEGORY #	A	B	C	D	E	F	G	K	L	M	N	APPROX. NFA
5800	18	9	30	31	9	16	6	6	18	19	16	50
5870	24	12	36	36	9	20	6	6	22	24	22	100

MGV SUB BASE (1/16" MESH)	O	P	Q	R	S	T	APPROX. NFA
5860-MGV	10	5	9	8	5	2	36
5930-MGV	15	6	11-½	9	6	2	66

FRONT VIEW



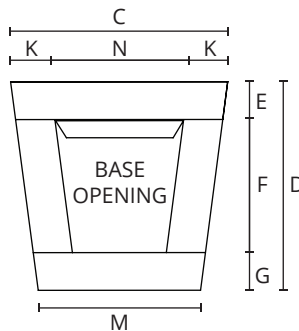
SIDE VIEW



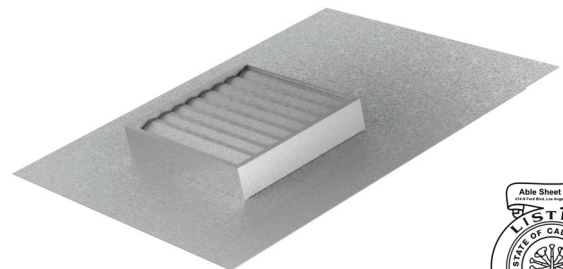
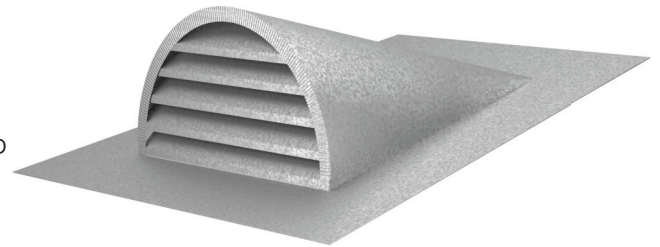
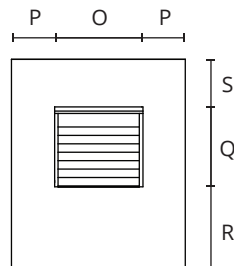
FRONT VIEW



BASE VIEW



TOP VIEW



MGV style WUI listed Sub Base is made of non-combustive metal, screened with 1/16" metal mesh. ASTM E2886 & E2912 tested, Chapter 7A, Code 706A2.1 compliant, tested by CAL FIRE approved lab for WUI compliance. Copper option has 1/8" mesh.





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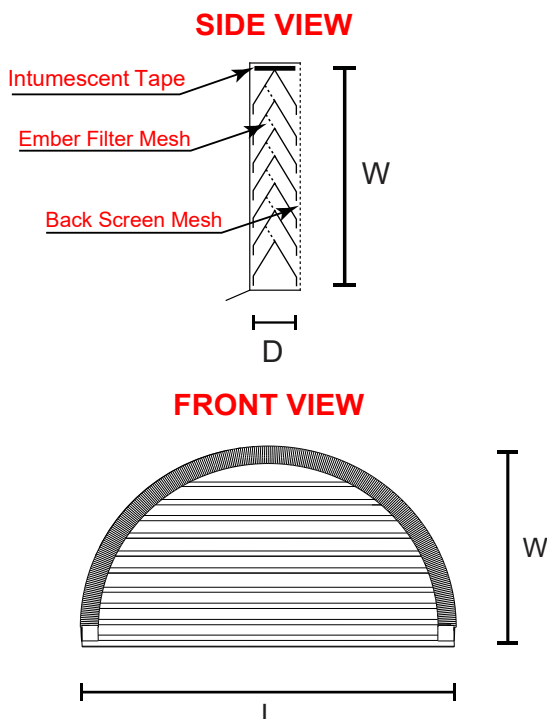
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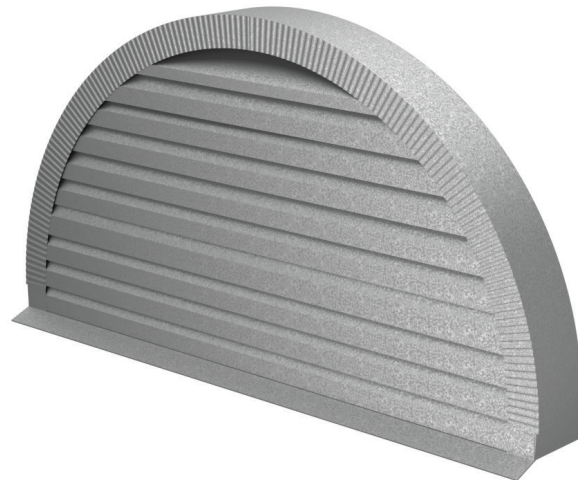
WUI TESTED MGV STYLE RETROFIT FACE FOR HALF ROUND DORMER VENT

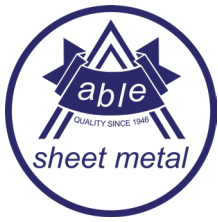
DESIGNED WITH HIGH PROFILE ASTM A-653 GALVANIZED STEEL, AND FITTED WITH AN INTUMESCENT INSERT WITH TWO LAYERS OF 1/16" GALVANIZED OR STAINLESS STEEL WIRE OR 1/8" COPPER EXPANDED MESH. THE MGV DESIGN IS TESTED AND CERTIFIED BY CALFIRE APPROVED LAB FOR ASTM E2886 AND E2912 STANDARDS FOR WUI COMPLIANCE. SPECIAL STYLES, SIZES & MATERIALS (BONDERIZED, ALUMINUM, COPPER) AVAILABLE BY REQUEST.

PART NUMBER	LENGTH (L)	WIDTH (W)	DEPTH (D)	APPROX. NFA
5800-R	18-1/2"	9"	4"	36 sq in.
5870-R	24-1/2"	12"	4"	66 sq in.



3D VIEW





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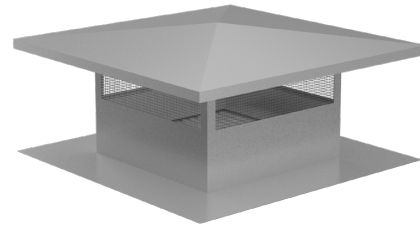
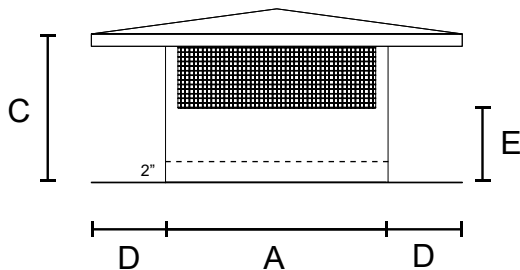


GRAVITY VENT WITH WUI TESTED MGV INSERT

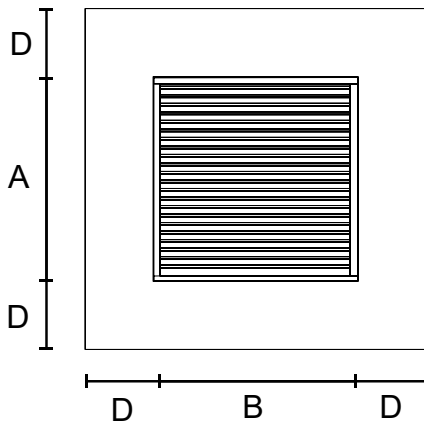
DESIGNED WITH HIGH PROFILE MATERIALS (ASTM A-653 GALVANIZED STEEL, OR ASTM A-792 GALVALUME). MGV INSERT IS MADE WITH 26GA GALVANIZED STEEL WITH 1/16" GALVANIZED WIRE MESH. TESTED AND CERTIFIED BY CAL FIRE APPROVED LABS FOR ASTM E2886 AND E2912 STANDARDS IN WUI COMPLIANCE. OTHER SIZES, STYLES, AND MATERIALS AVAILABLE UPON REQUEST. INTENDED FOR USE ON FLAT ROOFS.



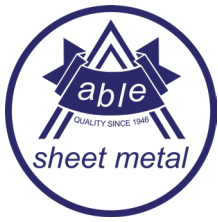
FRONT VIEW



BOTTOM VIEW



PART NUMBER	Vent Width (A)	Vent Length (B)	Vent Height (C)	Flange Size (D)	Height (E)	Roof Opening	Approx. NFA (in ²)
6040-1010-MGV	10"	10"	10"	4"	6"	10"x10"	40
6040-1212-MGV	12"	12"	10"	4"	6"	12"x12"	50
6040-1414-MGV	14"	14"	10"	4"	6"	14"x14"	70
6040-1818-MGV	18"	18"	10"	4"	6"	18"x18"	115
6040-2424-MGV	24"	24"	10"	4"	6"	24"x24"	210



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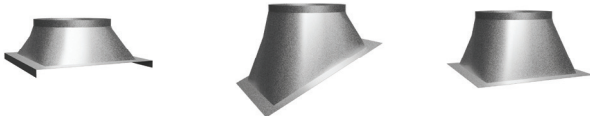
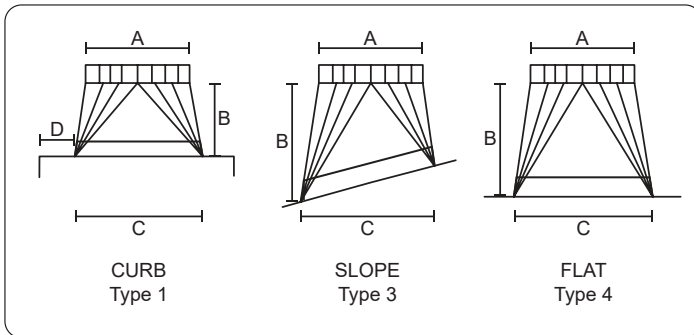
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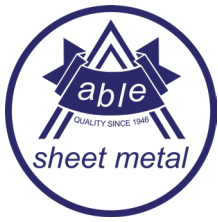
ROTARY TURBINE VENTILATORS WITH WUI TESTED MGVS BASE INSERT

DESIGNED WITH HIGH PROFILE MATERIALS (ASTM A-653 GALVANIZED STEEL). BASES ARE TAILOR-MADE TO FIT THE SHAPE OF THE ROOF AND ARE CONSTRUCTED TO WITHSTAND SEVERE WIND. WIDE FLASHINGS FOR RIGID MOUNTING. WITH ANGLE RINGS AND STIFFENER ANGLES FOR THE LARGER SIZES. PRODUCT DESIGN ALLOWS MAX AIR FLOW. INTENDED FOR USE ON FLAT, SLOPED, AND CURB ROOFS. THE MGVS INSERT IS LAB TESTED TO BE COMPLIANT WITH ASTM E2886 AND ASTM E2912.



PART NUMBER	A	B	C	D	GAUGE
6810-MGV	10"	8"	14"x14"	3"	26
6675-MGV	12"	10"	16"x16"	3"	26
6685-MGV	14"	10"	18"x18"	3"	26
6695-MGV	16"	10"	20"x20"	3"	24
6705-MGV	18"	10"	22"x22"	3"	24
6715-MGV	20"	12"	24"x24"	3"	24
6725-MGV	24"	12"	30"x30"	4"	24





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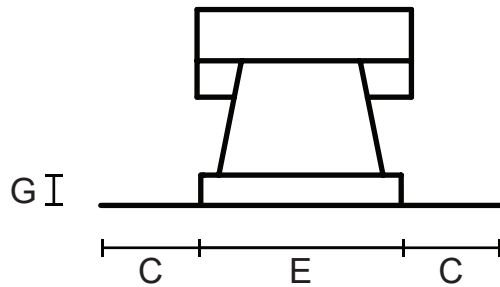


ROOF JACK T-TOP VENT WITH MGV STYLE WUI TESTED SUB BASE

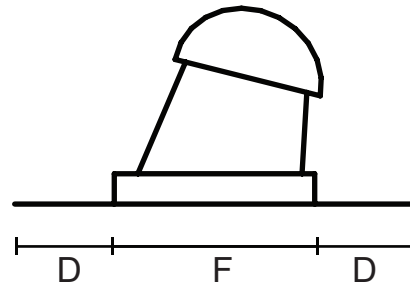
DESIGNED WITH ASTM A-653 GALVANIZED STEEL. INTENDED FOR USE ON FLAT AND SLOPED ROOFS UP TO 6:12 PITCH. BASED ON FHA STYLE T-TOPS WITH END CAPS. LAB TESTED FOR WUI COMPLIANCE MGV STYLE SUB BASE IS WITH 1/16" GALV MESH AND MADE AS AN UNDER-BOX ADDITION. HOT SOLDERED BASE LEVEL SEAMS.

PART NUMBER	A	B	C	D	E	F	G	APPROX. NFA
6221-MGV	20	23	6	6	8	11	1	15
6301-MGV	24	24	6	6	12	12	1	40

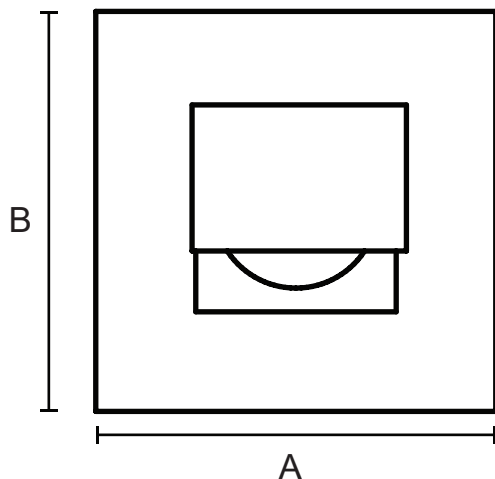
FRONT VIEW



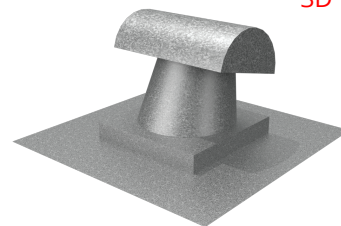
SIDE VIEW



TOP VIEW

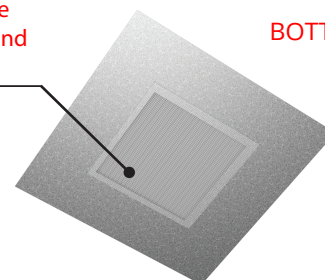


3D VIEW



BOTTOM VIEW

Louvered sub base
with 1/16" mesh and
intumescent strip





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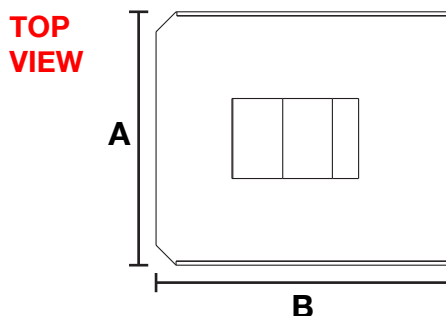
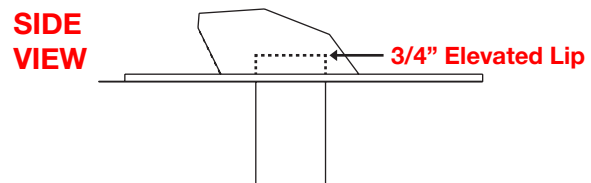
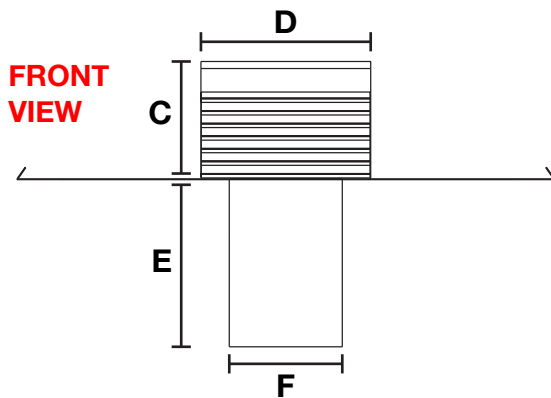
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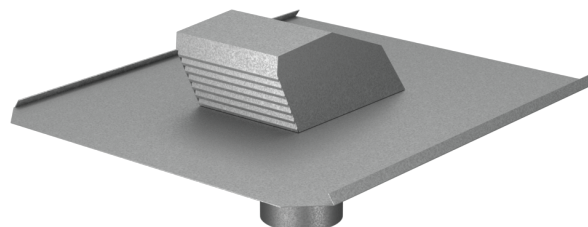
WUI TESTED MGV EXHAUST VENT

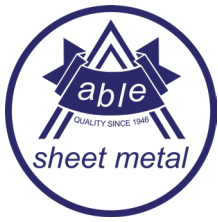
DESIGNED WITH HIGH PROFILE ASTM A-653 GALVANIZED STEEL, AND FITTED WITH AN INTUMESCENT INSERT WITH TWO LAYERS OF 1/16" GALVANIZED OR STAINLESS STEEL WIRE MESH. THE MGV DESIGN IS TESTED AND CERTIFIED BY CALFIRE APPROVED LAB FOR ASTM E2886 AND E2912 STANDARDS FOR WUI COMPLIANCE. SPECIAL STYLES, SIZES & MATERIALS (PREPAINTED, BONDERIZED, ALUMINUM, COPPER) ARE AVAILABLE UPON REQUEST.

PART NUMBER	A	B	C	D	E	F
5171-MGV	19"	22"	4"	6"	6"	4"
5191-6-MGV	29"	22"	4"	6"	6"	6"



3D VIEW





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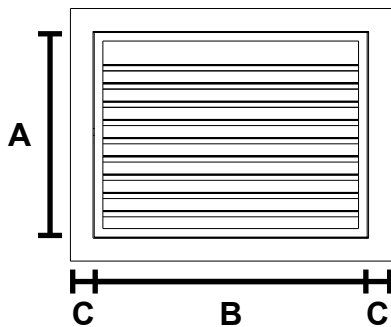


WUI TESTED MGV CRAWL HOLE DOORS

DESIGNED WITH HIGH PROFILE ASTM A-653 GALVANIZED STEEL,
FITTED WITH INTUMESCENT STRIP AND TWO LAYERS OF 1/16"
METAL MESH. TESTED AND CERTIFIED BY CALFIRE APPROVED LAB
FOR ASTM E2886 AND E2912 STANDARDS FOR WUI COMPLIANCE.
SPECIAL STYLES, SIZES & MATERIALS (BONDERIZED, COPPER,
STAINLESS STEEL, ETC.) AVAILABLE UPON REQUEST.

PART NUMBER	A	B	C	D	APPROX. NFA
4350-MGV	18"	24"	1-1/2"	2"	155 sq in.
4390-MGV	24"	24"	1-1/2"	2"	210 sq in.

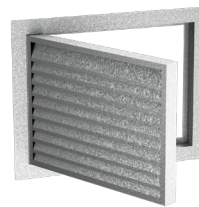
FRONT VIEW



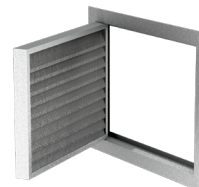
3D VIEW



FRONT, CLOSED

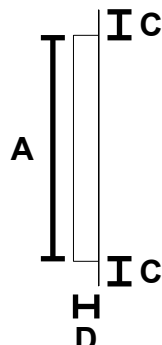


FRONT, OPEN



SIDE, OPEN

SIDE VIEW





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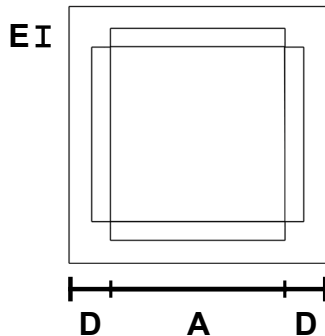


WUI TESTED MGV WALL CAPS

DESIGNED WITH HIGH PROFILE ASTM A-653 GALVANIZED STEEL, FITTED WITH INTUMESCENT STRIPS AND TWO LAYERS OF 1/16" METAL MESH. TESTED AND CERTIFIED BY CALFIRE APPROVED LAB FOR ASTM E2886 AND E2912 STANDARDS FOR WUI COMPLIANCE. SPECIAL STYLES, SIZES & MATERIALS (BONDERIZED, COPPER, STAINLESS STEEL, ETC.) AVAILABLE UPON REQUEST.

PART NUMBER	A	B	C	D	E	APPROX. NFA
5000-MGV	4"	4-1/8"	1"	1"	1/4"	7 sq in.
5020-MGV	7"	3-5/8"	1"	1"	1/4"	20 sq in.
5040-MGV	3-1/2"	3-1/8"	1"	1"	1/4"	15 sq in.

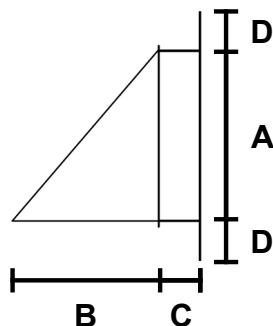
FRONT VIEW



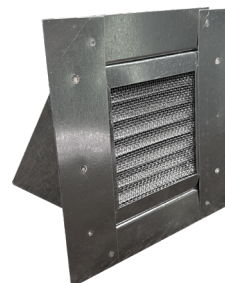
3D FRONT VIEW



SIDE VIEW



3D BACK VIEW



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This sale is made based on and subject to the terms and conditions of sale set forth as well as all drawings, specifications, descriptions and other documents attached hereto and incorporated herein by reference. Any additional or different terms or conditions set forth in any communication from Buyer, including Buyer's Purchase Order, are hereby objected to by Seller and shall not be effective or binding unless assented to in writing by an authorized representative of Seller.

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STANDARD TOLERANCES: Seller will produce and ship this order within Seller's limitations as to size, gauge, temper and quality of material in accordance with the Seller's current published price list.

RETURNS: A 20% handling charge plus incurred freight will be made on all material returned. Written authorization by Seller is required. Special or non-stock items are non-returnable.

REMEDIES: In addition to all rights and remedies provided by law, Buyer grants Seller the right to enter Buyer's premises and reclaim all products supplied hereunder which have not been paid for within the prescribed time period.

COMPANY RECOMMENDATIONS: Any recommendations made by Seller, or any of its authorized representatives, concerning uses of or applications of the products sold hereunder are believed reliable but Seller makes no warranty, express or implied, of results to be obtained.

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PATENTS AND TRADEMARKS: Except as otherwise provided herein, Seller agrees to defend, at its expense, any suit brought against Buyer based upon a claim that any products provided hereunder infringes any United States Letters Patent, and to pay costs and damages finally awarded in such suit, provided that (a) Seller is notified promptly in writing of the suit and is given assistance for the defense of the same, and (b) Seller shall have sole control of the defense of any suit and all negotiations for its settlement or compromise. In the event a final nonappealable judicial determination is made that products furnished hereunder infringes a valid United States patent, Seller shall, at its option and own expenses, either procure for Buyer the right to continue using such products, replace the same with noninfringing products or modify it so it becomes noninfringing, or remove the infringing products and refund the purchase price and the transportation cost thereof. The foregoing states the entire liability of Seller for patent infringement.

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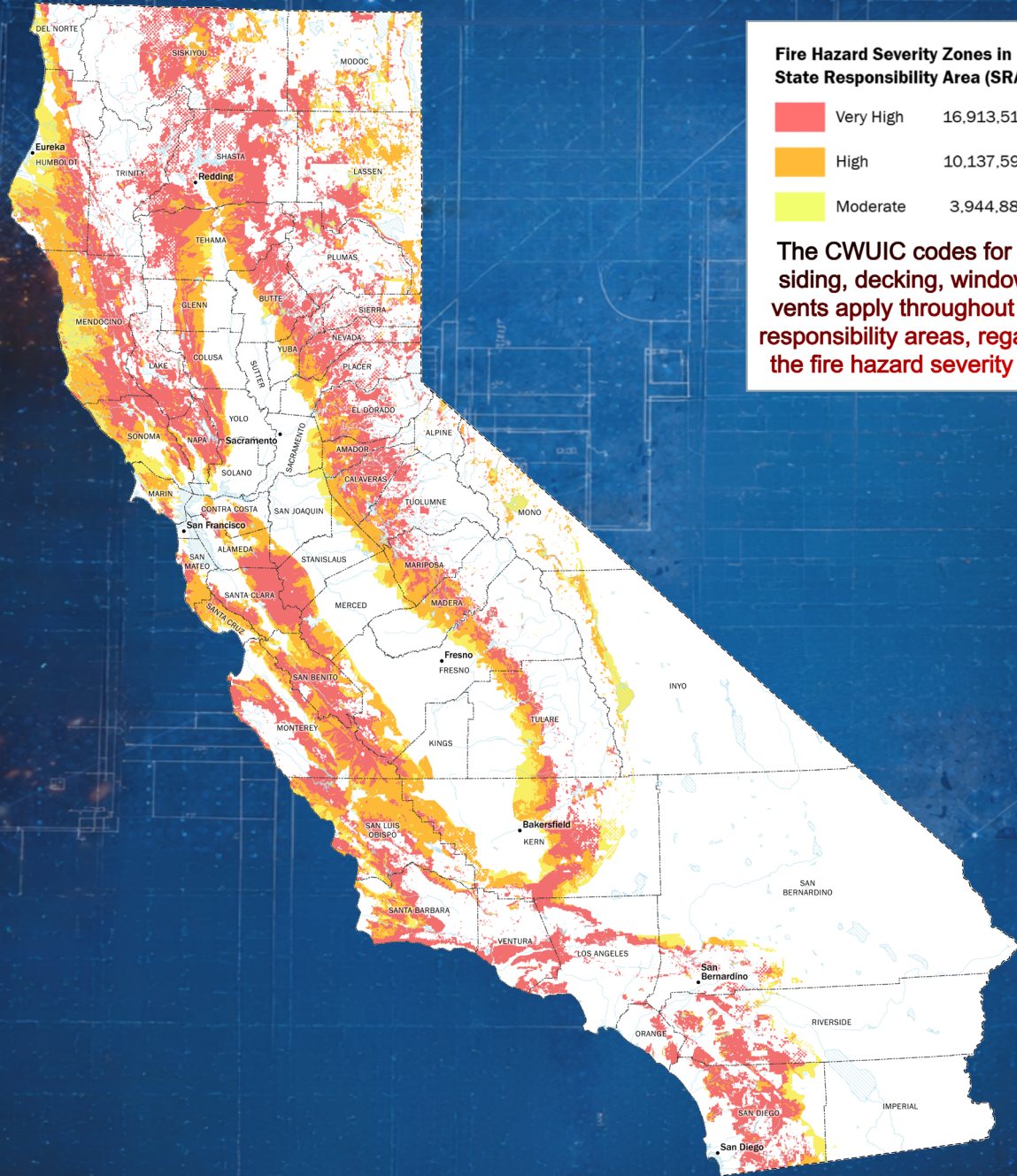
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