



America's Leading Attic Ventilation Company

ATTIC VENTILATION ANALYSIS

AN OVERVIEW

JUNE 2008

PRESENTED BY:

O'HAGIN'S, INC.
ARCHITECTURAL SUPPORT SERVICES

210 Classic Court, Suite 100
Rohnert Park, CA 94928
800/394-3864
www.ohaginvent.com

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PROGRAM SUMMARY

O'Hagin's, Inc., America's leading attic ventilation manufacturer, offers a range of free services for your planning, design, installation, post-installation and customer education needs.

Among these services, O'Hagin's is pleased to offer our free attic ventilation analysis – a technical analysis that calculates the number of vents needed based on known local building codes and offers specific recommendations for placement.

Annually, our Architectural Support Services Team reviews over 1,000 building projects from around the country and is utilized by countless architects, builders and roofing contractors to reduce cost and support code compliance.

The following information briefly reviews the program, describes the materials required to generate a report and provides two examples of completed analyses. While this program is very easy to use, we ask new users to contact our Support Services Team for personal assistance.

We welcome the opportunity to work with you on your next building project.

HOW IT WORKS!

SERVICE: Attic Ventilation Analysis

Provides a complete plan review for a project's attic ventilation system consisting of code-required calculations, ventilation quantities and a roof plan detailing the proper placement of vents for adequate ventilation.

CHARGE: **FREE**

REQUIREMENTS: The following elements must be received to ensure a complete attic ventilation analysis:

- *Completed Project Checklist (sample on page 4)*
- *Architectural roof plan(s) for each elevation type, preferably in AutoCAD (.dwg) file format*
- *Building elevations*
- *Building cross sections*
- *Architecturally-dimensioned floor plan(s) for each elevation type*
- *General information and special circumstances, such as hazardous fire conditions, noise abatement requirements, fuel-burning appliances, etc.*

If electronic files are not available, please send a complete set of legible architectural plans.

ADDRESS: Mail or Email the completed Checklist and required files to:

O'Hagin's, Inc.
Architectural Support Services
210 Classic Court, Suite 100
Rohnert Park, CA 94928

drawings@ohaginvent.com

QUESTIONS: Call our Architectural Support Services toll-free at 800/394-3864.

**TERMS AND
CONDITIONS:**

1. Authorization. At its discretion, O'Hagin's, Inc. is authorized to submit all plans and materials to an outside consulting service provider or representative for review. O'Hagin's, Inc. is not responsible for any loss or damage of any submitted materials.
2. Responsibility: Final responsibility for compliance with all ordinances, regulations, codes, etc., for any submitted project remains with the architects, builders and contractors associated with that project. Recipients agree to hold harmless and indemnify O'Hagin's, Inc. and its agents from any loss, cost or expense associated with this free service.
3. Reminder: Compliance with attic ventilation requirements should always be verified at the local governing level.

SAMPLE PROJECT CHECKLIST

ATTIC VENTILATION ANALYSIS CHECKLIST

Date Submitted: _____

Client/Firm: _____

Completed By: _____ Title: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____

Builder: _____

Project Name: _____

Project City/State: _____

Type of Project: Residential Commercial

Single Structure/Dwelling Multiple Structures/Dwellings

No. of Plans/Project _____ No. of Elevations/Plan _____

Local Governing Code: IBC IRC UBC CBC FBC

VENTILATION METHOD

O'Hagin's Vents High & Low (Exhaust & Intake) O'Hagin's Vents High w/Alternate Method Low Alternate Method High w/O'Hagin's Vents Low

BUILDING TYPE AND ROOFING MATERIAL

Vapor Barrier/Retarder Used: Type II (1 perm) None Other _____

Plan _____ Elev. _____	Plan _____ Elev. _____	Plan _____ Elev. _____
<input type="checkbox"/> Concrete Flat Tile	<input type="checkbox"/> Concrete Flat Tile	<input type="checkbox"/> Concrete Flat Tile
<input type="checkbox"/> Concrete "M" Tile	<input type="checkbox"/> Concrete "M" Tile	<input type="checkbox"/> Concrete "M" Tile
<input type="checkbox"/> Concrete "S" Tile	<input type="checkbox"/> Concrete "S" Tile	<input type="checkbox"/> Concrete "S" Tile
<input type="checkbox"/> Clay Flat Tile	<input type="checkbox"/> Clay Flat Tile	<input type="checkbox"/> Clay Flat Tile
<input type="checkbox"/> Clay "M" Tile	<input type="checkbox"/> Clay "M" Tile	<input type="checkbox"/> Clay "M" Tile
<input type="checkbox"/> Clay "S" Tile	<input type="checkbox"/> Clay "S" Tile	<input type="checkbox"/> Clay "S" Tile
<input type="checkbox"/> Composition	<input type="checkbox"/> Composition	<input type="checkbox"/> Composition
<input type="checkbox"/> Slate	<input type="checkbox"/> Slate	<input type="checkbox"/> Slate
<input type="checkbox"/> Shake	<input type="checkbox"/> Shake	<input type="checkbox"/> Shake

~ INSTRUCTIONS ~

The following elements -- along with this completed form -- must be included to provide an attic ventilation analysis:

- *Architectural roof plan(s) for each elevation type, preferably in AutoCAD (.dwg) file format*
- *Building elevations*
- *Building cross sections*
- *Architecturally-dimensioned floor plan(s) for each elevation type*
- *General information and special circumstances, such as hazardous fire conditions, noise abatement requirements, fuel-burning appliances, etc.*

If electronic files are not available, please include a complete set of legible architectural plans.

O'Hagin's Inc. - Architectural Support Services
210 Classic Court, Suite 100 · Rohnert Park, CA 94928
 Phone: 800/394-3864 Fax: 707/588-5772
 Email: drawings@ohaginvent.com

~ Office Use Only ~

Date Received: _____

Project No.: _____

Date Sent: _____

SAMPLE COMPLETED ATTIC VENTILATION ANALYSES

SINGLE BUILDING / DWELLING

ATTIC VENTILATION ANALYSIS

O'Hagin's, Inc.'s Architectural Support Services Team is pleased to provide the following Attic Ventilation Analysis. Please note that this analysis is based upon information submitted by you, including, but not limited to, location of the subject property, square footage of attic area(s), elevations provided, critical design choices (i.e., use of vapor retarder) and design intent.

Please remember that final responsibility for proper product installation, as well as compliance with all ordinances, regulations, codes, etc., for any submitted project remains with the architects, builders and contractors associated with this project. All recipients agree to hold harmless O'Hagin's, Inc. and its agents from any loss, cost or expense associated with the use of this free service.

Project: Single Building / Dwelling
Location: Rohnert Park, California
Project No. XXXXXXXX

Calculation

Method Used: Generally, the 1/150 rule applies. In other words, the net free ventilating area (NFVA) shall not be less than 1/150 of the area of the space ventilated. Additionally, 50 percent of the attic vents must be located in the upper portion of the space to be ventilated at least 3 feet above eave or cornice vents which are required to provide the remaining required ventilation.

There is one exception to the above rule, where applicable: If, in addition to the attic vent location stated above, a vapor retarder not exceeding 1 perm (in accordance with ASTM E 96) is installed on the warm side of the attic insulation, then the rule is 1/300 (not 1/150 as stated above).

Source: International Building Code, (2006); Chapter 12 Interior Environment (Page 249); Section 1203.2 Attic Spaces.

Manufacturer's

Recommendation: The patented O'Hagin's Balanced Ventilation System, when properly installed, is in full compliance with the applicable Code section, cited above.

The enclosed Attic Ventilation Analysis should include the O'Hagin's patented balanced ventilation system design which utilizes O'Hagin's vents strategically placed both high (near the ridge for exhaust) and low (near the eave for intake). This strategic high and low placement of O'Hagin's vents allows the balanced system to fully optimize both the wind and thermal effects to provide superior passive ventilation throughout the attic. Additionally, placement of O'Hagin's vents both high and low should provide an equal, balanced rate of ventilation performance in each area.

If the enclosed Attic Ventilation Analysis includes specification of O'Hagin's vents in combination with non-O'Hagin's intake or exhaust vents, then this should also meet the code requirements, but may result in an unbalanced ventilation system. This combination of O'Hagin's and non-O'Hagin's ventilation products is not recommended by the manufacturer. For example, if the non-O'Hagin's ventilation products are not installed to specification or operate less efficiently than the O'Hagin's ventilation products, then the system may not be in balance, resulting in a potential reduction in overall performance.

Specific notes accompany the enclosed Attic Ventilation Analysis, as follows:

1. A minimum 22" x 30" opening shall be provided at all roof fill/frame assemblies for required access and air flow movement. Where fill/frame conditions do not permit required openings, a 12" x 12" opening shall be provided at the upper portion of the fill/frame area.

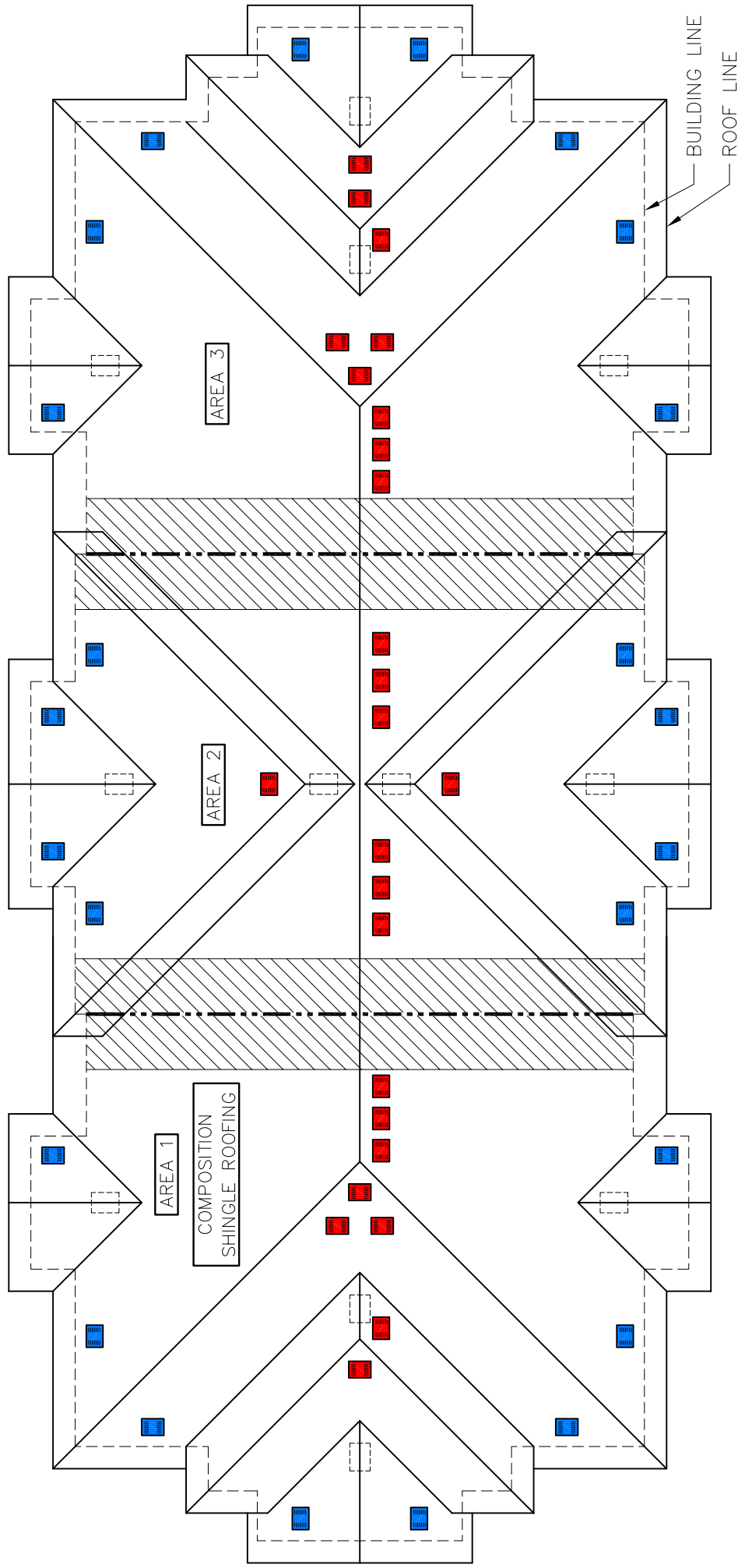
If the required 22" x 30" openings are not provided at all roof fill/frame assemblies, the system will not perform to the original design intent. This may result in restriction of free air flow and/or effect vent performance.

2. O'Hagin's vents are required to be installed in accordance with printed instructions provided in each carton of vents. Installation instructions are also available on O'Hagin's website: www.ohaginvent.com.
3. All low vents (intake) shall be uniformly installed a minimum of 12 inches above the attic insulation. The width of any eave overhang shall be taken into consideration so, for example, the insulation does not block the attic vent opening.
4. All high vents (exhaust) shall be uniformly installed two (2) to three (3) courses below the ridge assembly, unless prevented by structural framing.
5. O'Hagin's vents are designed to be part of a complete roofing system. Failure to properly install all components will negatively impact overall performance and will void warranty protections.
6. O'Hagin's vents should not be installed below or adjacent to valleys or other areas of concentrated water runoff.
7. Recommended Painting Procedures for O'Hagin's galvanized, aluminum and copper vents are available on O'Hagin's website: www.ohaginvent.com.
8. Complete details on warranty, including limitations and exclusions, are available on O'Hagin's website: www.ohaginvent.com.
9. For specific information regarding snow and high velocity wind applications, please contact O'Hagin's, Inc.
10. For customer service or technical support, please call toll free 800/394-3864, or visit O'Hagin's website at www.ohaginvent.com.

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ATTIC VENTILATION ANALYSIS CALCULATIONS

LEGEND	NOTES				
<p>O'HAGIN'S TAPERED LOW-PROFILE COMPOSITION SHINGLE VENTS: 72.00 SQUARE INCHES OF NFVA* HIGH VENT** LOW VENT** (EXHAUST) (INTAKE)</p> <p>22" x 30" OPENING AT ROOF FRAME/FILL AREAS FOR REQUIRED ATTIC ACCESS & AIRFLOW (OPENING MUST REMAIN UNOBSTRUCTED)</p> <p>NO ROOF PENETRATIONS IN THIS AREA:</p> <p>2-HOUR FIREWALL: </p> <p>*NET FREE VENTILATION AREA (FIGURES BASED ON INDEPENDENT EVALUATION REPORTS)</p>	<p>ALL REQ. ATTIC VENTILATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, (2006); CHAPTER 12 INTERIOR ENVIRONMENT (PAGE 249); SECTION 1203.2 ATTIC SPACES</p> <p>ATTIC VENT PLACEMENT ASSUMES GUTTERS ARE INSTALLED IN ALL APPLICABLE AREAS</p> <p>VENTS MUST BE INSTALLED 5'-0" MINIMUM FROM 2-HOUR FIREWALLS</p> <p>REFER TO www.ohaginvent.com FOR INSTALLATION INSTRUCTIONS</p> <p>QUESTIONS OR COMMENTS (800) 394-3864</p>				
<h2>ATTIC VENTILATION METHOD (O'HAGIN'S HIGH & LOW)</h2>					
ATTIC AREAS	ATTIC SQUARE FEET	APPLIED RULES OR EXCEPTIONS	SQUARE INCHES NFVA* REQUIRED	O'HAGIN'S VENTS REQUIRED	SQUARE INCHES NFVA* PROVIDED
AREA 1	2271.00	1/300	1091.00	8 HIGH, 8 LOW	1152.00
AREA 2	2281.00	1/300	1095.00	8 HIGH, 8 LOW	1152.00
AREA 3	2271.00	1/300	1091.00	8 HIGH, 8 LOW	1152.00
TOTALS	6823.00	N/A	3277.00	48 @ 72.00 S.I. EACH	3456.00



ROOF VENT PLAN – BUILDING A

SINGLE BUILDING/DWELLING – ROHNERT PARK, CA

(REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS)

SCALE: N.T.S.

PROJECT: XXXXXX

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MULTIPLE BUILDING / DWELLING

ATTIC VENTILATION ANALYSIS

O'Hagin's, Inc.'s Architectural Support Services Team is pleased to provide the following Attic Ventilation Analysis. Please note that this analysis is based upon information submitted by you, including, but not limited to, location of the subject property, square footage of attic area(s), elevations provided, critical design choices (i.e., use of vapor retarder) and design intent.

Please remember that final responsibility for proper product installation, as well as compliance with all ordinances, regulations, codes, etc., for any submitted project remains with the architects, builders and contractors associated with this project. All recipients agree to hold harmless O'Hagin's, Inc. and its agents from any loss, cost or expense associated with the use of this free service.

Project: Multiple Building / Dwelling
Location: Rohnert Park, California
Project No. XXXXXXXX

Calculation

Method Used: Generally, the 1/150 rule applies. In other words, the net free ventilating area (NFVA) shall not be less than 1/150 of the area of the space ventilated. Additionally, 50 percent of the attic vents must be located in the upper portion of the space to be ventilated at least 3 feet above eave or cornice vents which are required to provide the remaining required ventilation.

There is one exception to the above rule, where applicable: If, in addition to the attic vent location stated above, a vapor retarder not exceeding 1 perm (in accordance with ASTM E 96) is installed on the warm side of the attic insulation, then the rule is 1/300 (not 1/150 as stated above).

Source: International Building Code, (2006); Chapter 12 Interior Environment (Page 249); Section 1203.2 Attic Spaces.

Manufacturer's

Recommendation: The patented O'Hagin's Balanced Ventilation System, when properly installed, is in full compliance with the applicable Code section, cited above.

The enclosed Attic Ventilation Analysis should include the O'Hagin's patented balanced ventilation system design which utilizes O'Hagin's vents strategically placed both high (near the ridge for exhaust) and low (near the eave for intake). This strategic high and low placement of O'Hagin's vents allows the balanced system to fully optimize both the wind and thermal effects to provide superior passive ventilation throughout the attic. Additionally, placement of O'Hagin's vents both high and low should provide an equal, balanced rate of ventilation performance in each area.

If the enclosed Attic Ventilation Analysis includes specification of O'Hagin's vents in combination with non-O'Hagin's intake or exhaust vents, then this should also meet the code requirements, but may result in an unbalanced ventilation system. This combination of O'Hagin's and non-O'Hagin's ventilation products is not recommended by the manufacturer. For example, if the non-O'Hagin's ventilation products are not installed to specification or operate less efficiently than the O'Hagin's ventilation products, then the system may not be in balance, resulting in a potential reduction in overall performance.

Specific notes accompany the enclosed Attic Ventilation Analysis, as follows:

1. A minimum 22" x 30" opening shall be provided at all roof fill/frame assemblies for required access and air flow movement. Where fill/frame conditions do not permit required openings, a 12" x 12" opening shall be provided at the upper portion of the fill/frame area.

If the required 22" x 30" openings are not provided at all roof fill/frame assemblies, the system will not perform to the original design intent. This may result in restriction of free air flow and/or effect vent performance.

2. O'Hagin's vents are required to be installed in accordance with printed instructions provided in each carton of vents. Installation instructions are also available on O'Hagin's website: www.ohaginvent.com.
3. All low vents (intake) shall be uniformly installed a minimum of 12 inches above the attic insulation. The width of any eave overhang shall be taken into consideration so, for example, the insulation does not block the attic vent opening.
4. All high vents (exhaust) shall be uniformly installed two (2) to three (3) courses below the ridge assembly, unless prevented by structural framing.
5. O'Hagin's vents are designed to be part of a complete roofing system. Failure to properly install all components will negatively impact overall performance and will void warranty protections.
6. O'Hagin's vents should not be installed below or adjacent to valleys or other areas of concentrated water runoff.
7. Recommended Painting Procedures for O'Hagin's galvanized, aluminum and copper vents are available on O'Hagin's website: www.ohaginvent.com.
8. Complete details on warranty, including limitations and exclusions, are available on O'Hagin's website: www.ohaginvent.com.
9. For specific information regarding snow and high velocity wind applications, please contact O'Hagin's, Inc.
10. For customer service or technical support, please call toll free 800/394-3864, or visit O'Hagin's website at www.ohaginvent.com.

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Email: drawings@ohaginvent.com
Phone: 800/394-3864

ATTIC VENTILATION ANALYSIS CALCULATIONS

LEGEND

O'HAGIN'S CONCRETE FLAT TILE VENTS:
 98.75 SQUARE INCHES OF NFVA*
 (ICC-ES LEGACY REPORT 9650.A)




HIGH VENT** LOW VENT**
 (EXHAUST) (INTAKE)

22" x 30" OPENING AT ROOF FRAME/FILL AREAS
 FOR REQUIRED ATTIC ACCESS & AIRFLOW
 (OPENING MUST REMAIN UNOBSTRUCTED)

*NET FREE VENTILATION AREA

(FIGURES BASED ON INDEPENDENT EVALUATION REPORTS)

NOTES

ALL REQ. ATTIC VENTILATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, (2006); CHAPTER 12 INTERIOR ENVIRONMENT (PAGE 249); SECTION 1203.2 ATTIC SPACES

ATTIC VENT PLACEMENT ASSUMES GUTTERS ARE INSTALLED IN ALL APPLICABLE AREAS

REFER TO www.ohaginvent.com FOR INSTALLATION INSTRUCTIONS

QUESTIONS OR COMMENTS (800) 394-3864

ATTIC VENTILATION METHOD (O'HAGIN'S HIGH & LOW)

ATTIC AREAS	ATTIC SQUARE FEET	APPLIED RULES OR EXCEPTIONS	SQUARE INCHES NFVA* REQUIRED	O'HAGIN'S VENTS REQUIRED	SQUARE INCHES NFVA* PROVIDED
AREA 1	1388.00	1/300	667.00	4 HIGH, 4 LOW	790.00
AREA 2	202.00	1/150	194.00	1 HIGH, 1 LOW	197.50
AREA 3	50.00	1/150	48.00	1 HIGH	98.75
AREA 4	164.00	1/150	158.00	2 HIGH	197.50
TOTALS	1804.00	N/A	1067.00	13 @ 98.75 S.I. EACH	1283.75

ROOF VENT CALCULATIONS – PLAN 1 – ELEV. A

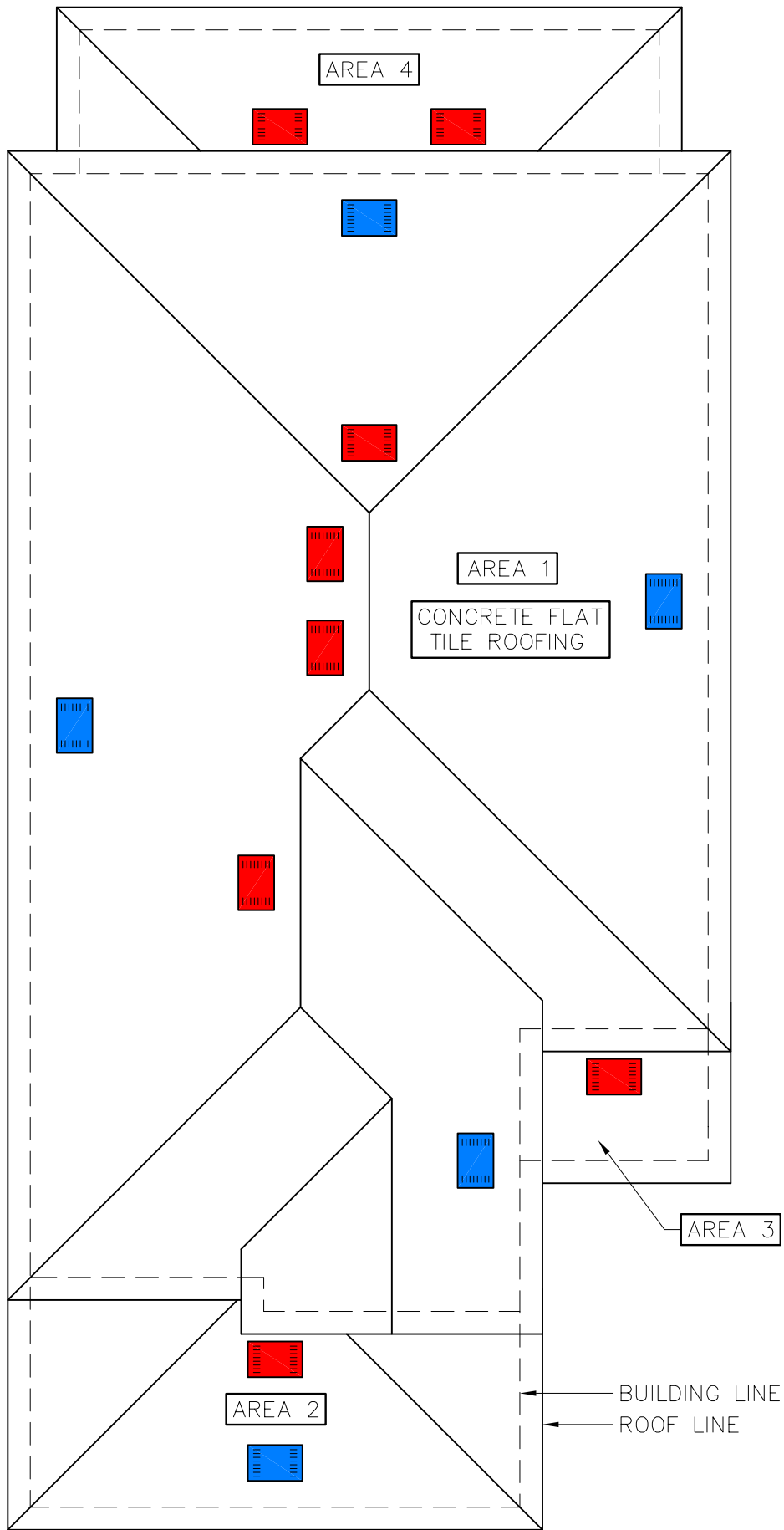
MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

**REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS

SCALE: N.T.S.

PROJECT: XXXXXXX

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ROOF VENT PLAN – PLAN 1 – ELEV. A

MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

SCALE: N.T.S.

PROJECT: XXXXXXX

(REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS)

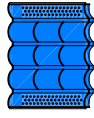
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ATTIC VENTILATION ANALYSIS CALCULATIONS

LEGEND

NOTES

O'HAGIN'S CONCRETE "M" TILE VENTS:



86.25 SQUARE INCHES OF NFVA*
(ICC-ES LEGACY REPORT 9650.A)

HIGH VENT** LOW VENT**
(EXHAUST) (INTAKE)

22" x 30" OPENING AT ROOF FRAME/FILL AREAS
FOR REQUIRED ATTIC ACCESS & AIRFLOW
(OPENING MUST REMAIN UNOBSTRUCTED)



*NET FREE VENTILATION AREA

(FIGURES BASED ON INDEPENDENT EVALUATION REPORTS)

ALL REQ. ATTIC VENTILATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, (2006); CHAPTER 12 INTERIOR ENVIRONMENT (PAGE 249); SECTION 1203.2 ATTIC SPACES

ATTIC VENT PLACEMENT ASSUMES GUTTERS ARE INSTALLED IN ALL APPLICABLE AREAS

REFER TO www.ohaginvent.com FOR INSTALLATION INSTRUCTIONS

QUESTIONS OR COMMENTS (800) 394-3864

ATTIC VENTILATION METHOD (O'HAGIN'S HIGH & LOW)

ATTIC AREAS	ATTIC SQUARE FEET	APPLIED RULES OR EXCEPTIONS	SQUARE INCHES NFVA* REQUIRED	O'HAGIN'S VENTS REQUIRED	SQUARE INCHES NFVA* PROVIDED
AREA 1	1388.00	1/300	667.00	4 HIGH, 4 LOW	690.00
AREA 2	202.00	1/150	194.00	2 HIGH, 2 LOW	345.00
AREA 3	50.00	1/150	48.00	1 HIGH	86.25
AREA 4	40.00	1/150	39.00	1 HIGH	86.25
TOTALS	1680.00	N/A	948.00	14 @ 86.25 S.I. EACH	1207.50

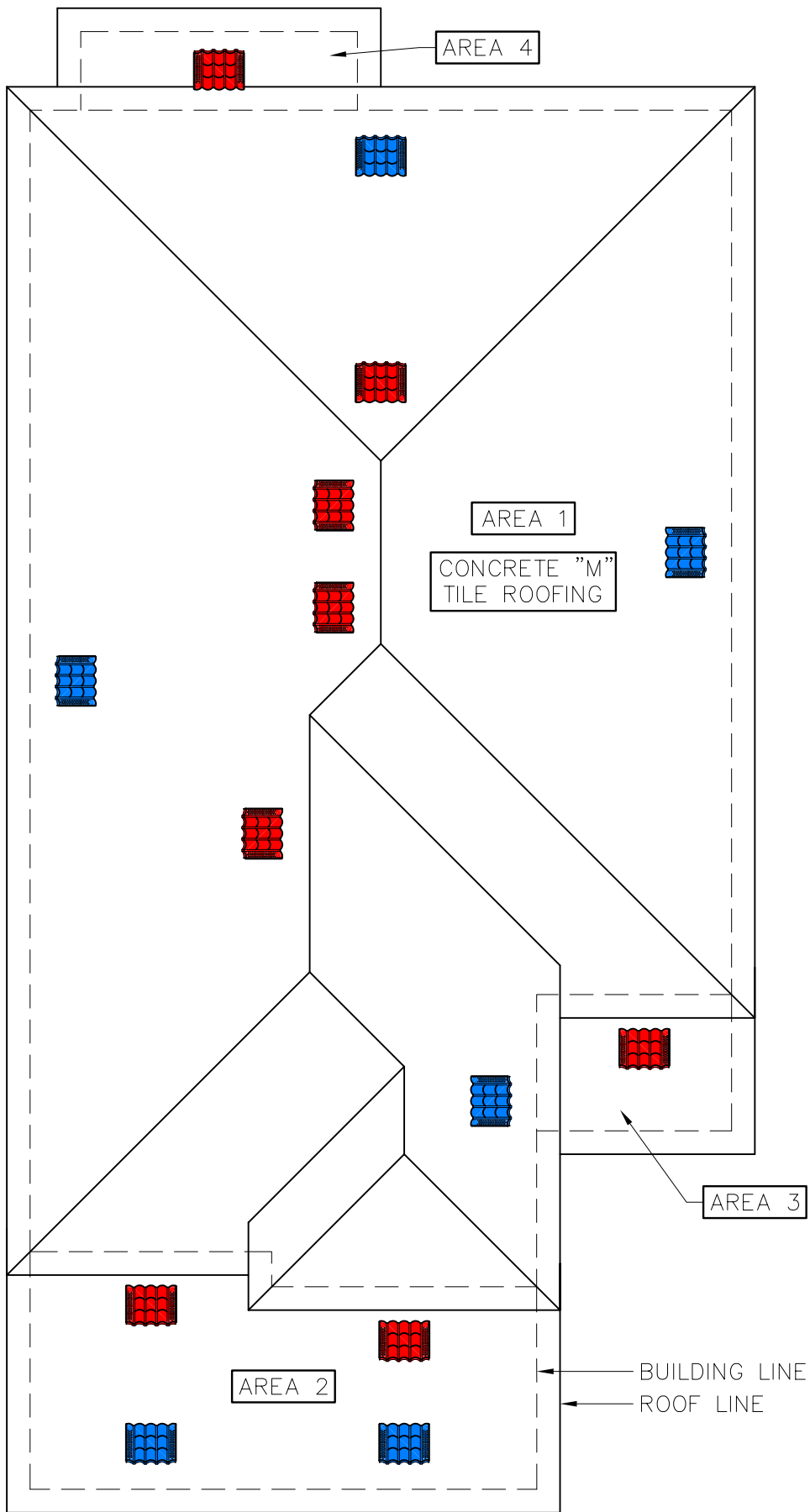
ROOF VENT CALCULATIONS – PLAN 1 – ELEV. B MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

**REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS

SCALE: N.T.S.

PROJECT: XXXXXXX

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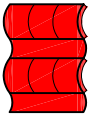
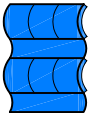
ROOF VENT PLAN – PLAN 1 – ELEV. B

MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

(REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS)

SCALE: N.T.S.
PROJECT: XXXXXXX

ATTIC VENTILATION ANALYSIS CALCULATIONS

LEGEND	NOTES
<p>O'HAGIN'S CONCRETE "S" TILE VENTS: 97.50 SQUARE INCHES OF NFVA* (ICC-ES LEGACY REPORT 9650.A)</p> <p style="text-align: center;">   </p> <p>HIGH VENT** LOW VENT** (EXHAUST) (INTAKE)</p> <p>22" x 30" OPENING AT ROOF FRAME/FILL AREAS FOR REQUIRED ATTIC ACCESS & AIRFLOW (OPENING MUST REMAIN UNOBSTRUCTED)</p> <p>*NET FREE VENTILATION AREA (FIGURES BASED ON INDEPENDENT EVALUATION REPORTS)</p>	<p>ALL REQ. ATTIC VENTILATION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE, (2006); CHAPTER 12 INTERIOR ENVIRONMENT (PAGE 249); SECTION 1203.2 ATTIC SPACES</p> <p>ATTIC VENT PLACEMENT ASSUMES GUTTERS ARE INSTALLED IN ALL APPLICABLE AREAS</p> <p>REFER TO www.ohaginvent.com FOR INSTALLATION INSTRUCTIONS</p> <p>QUESTIONS OR COMMENTS (800) 394-3864</p>

ATTIC VENTILATION METHOD (O'HAGIN'S HIGH & LOW)					
ATTIC AREAS	ATTIC SQUARE FEET	APPLIED RULES OR EXCEPTIONS	SQUARE INCHES NFVA* REQUIRED	O'HAGIN'S VENTS REQUIRED	SQUARE INCHES NFVA* PROVIDED
AREA 1	1315.00	1/300	632.00	4 HIGH, 4 LOW	780.00
AREA 2	80.00	1/150	77.00	1 HIGH	97.50
AREA 3	53.00	1/150	51.00	1 HIGH	97.50
TOTALS	1448.00	N/A	760.00	10 @ 97.50 S.I. EACH	975.00

ROOF VENT CALCULATIONS – PLAN 1 – ELEV. C

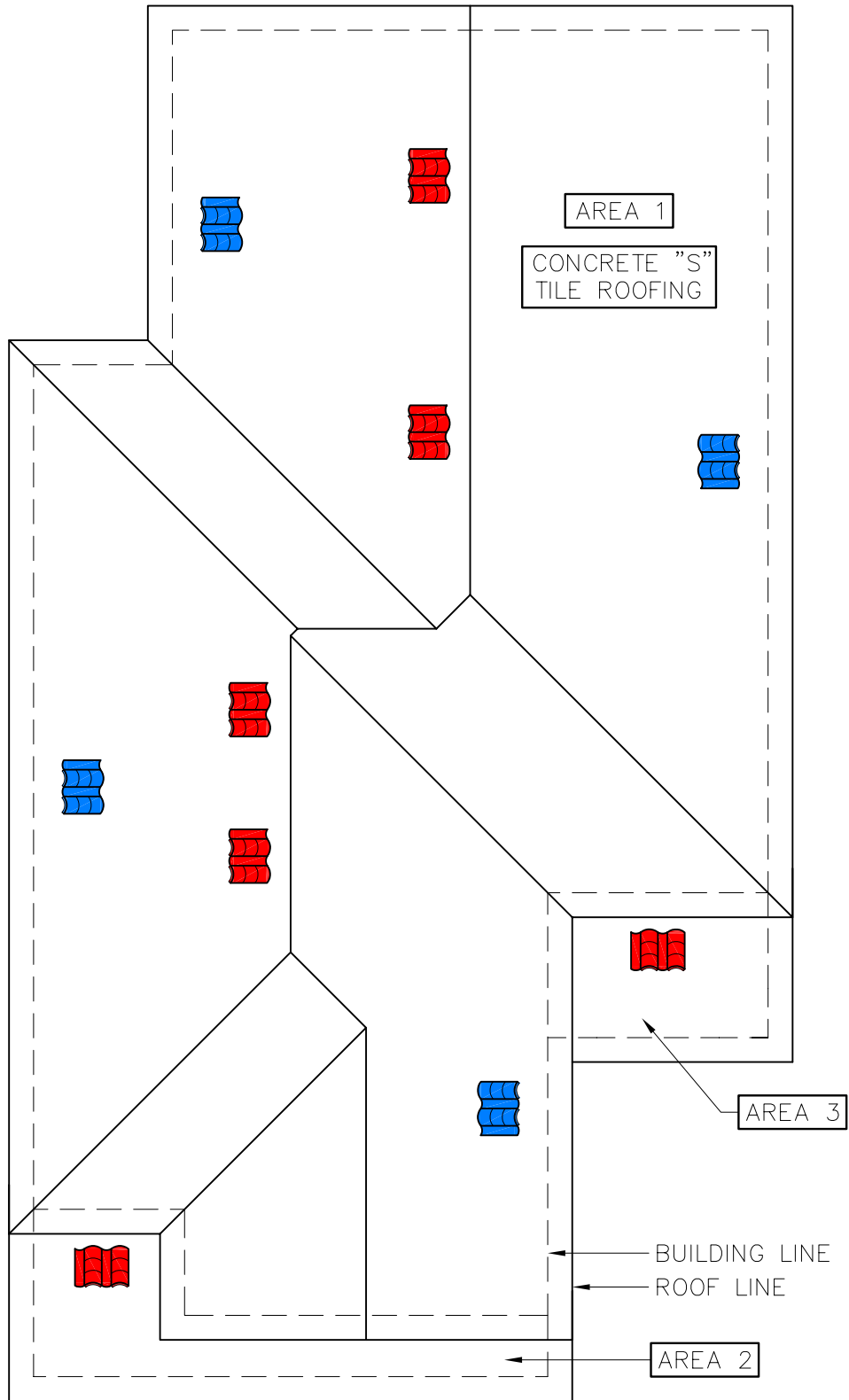
MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

**REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS

SCALE: N.T.S.

PROJECT: XXXXXXXX

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ROOF VENT PLAN – PLAN 1 – ELEV. C

MULTIPLE BUILDINGS/DWELLINGS – ROHNERT PARK, CA

(REFER TO NOTES 3 & 4 ON ATTACHED ANALYSIS FOR O'HAGIN'S HIGH & LOW VENT PLACEMENT INSTRUCTIONS)

SCALE: N.T.S.
PROJECT: XXXXXXX

FREE CONSULTATIVE SERVICES

FREE CONSULTATIVE SERVICES

I. Pre-Construction / Architectural Support Services

O'Hagin's, Inc. also offers free individual or group consultation services. An attic ventilation counselor is available to answer questions on all potential ventilation solutions. Individual questions are answered by either phone or e-mail, while group presentations with Q&A and a free lunch are provided, typically to architectural firms, on-site. Nearly a thousand architectural and building professionals have participated in O'Hagin's-sponsored ventilation seminars.

II. Custom Product Design

O'Hagin's, Inc. is the largest manufacturer of attic ventilation solutions for custom projects. Nearly everyday, we receive sample roof tiles from exotic locales and construct, by hand, custom ventilation solutions. Our trained design support team works with architects, builders and roofing contractors to learn about the project and create attic vents specifically to support the job.

III. On-Site Installation Instruction

O'Hagin's, Inc. started as a roofing company over 30 years ago. As a result, we are particularly sensitive to the needs of our roofing partners. Today, O'Hagin's, Inc. offers free on-site training in either English or Spanish to field installation crews. While O'Hagin's products are simple to install, our direct training program ensures a continuity of field knowledge even when new employees are hired.

IV. Post-Sale Support

O'Hagin's, Inc.'s commitment to service goes far beyond the initial sale. When called upon, we are willing to meet with homeowners, consultants and other interested parties who may have questions about the installation and utility of our product. Mold and mildew issues are raising the profile of ventilation solutions and O'Hagin's is willing to support our partners in answering post-installation questions.

V. Liaison Services With Local Building Code Officials

O'Hagin's, Inc.'s representatives are available to confer with local building code officials to address their questions or concerns. We value the opportunity to work with our regulatory partners because we are proud of our successful track record of over three million vents sold without a single product liability claim.