



# INNOVATIVE SOLUTIONS FOR PENETRATION CHALLENGES



## VAULT® Penetration Protection

Explore the future of penetration protection with the VAULT® by RPH. Our advanced solutions are designed to safeguard your structure's penetrations – consolidated, secure, and configurable.

## CYCLONE® Maximum Wind Protection

Discover the durability and innovation of CYCLONE® solutions, ideally designed for safe rooms/storm shelters—third-party tested to meet ICC and FEMA standards. Unmatched protection for penetrations in high-wind areas.

## CUSTOM Innovative Protection Design

Reimagine penetration protection with RPH's Custom Solutions, transcending both our VAULT® line and select CYCLONE® designs, and pushing engineering boundaries to deliver maximum, project-specific protection.

## Welcome to RPH

Explore our high-value technical solutions for the building envelope: VAULT®, CYCLONE®, and CUSTOM solutions – delivering superior protection.

Every roof or wall penetration escalates the risk of potential leaks, leading to the possibility of costly damages. Even more concerning is that many projects contain penetration solutions that do not meet building codes or standards, are not weather-tight, and lack warranties. It's time to rethink our approach to roof and wall penetration solutions.



VAULT®



CYCLONE®

When designing commercial safe rooms/storm shelters, it's mandatory to prioritize safety by selecting products meeting codes like ICC 500 and FEMA P-361 and undergoing third-party testing for compliance. Inferior solutions may compromise structural integrity, jeopardizing safety during emergencies. It's crucial for specifiers and contractors to be knowledgeable about the codes, prioritize code-compliant storm shelter products, and ensure proper installation.

One size does not fit all.

Every project is unique, and standard size solutions may not always align with your specific requirements. That's where our custom solutions come into play. Developed in response to valuable feedback from architects and engineers, our custom line is designed as a tailored solution with the same high standards as our code-compliant products.



CUSTOM



# THE RPH DIFFERENCE



## ADVANCED ENGINEERING

We engage in ongoing dialogues with architects, engineers, contractors, and industry experts, actively seeking insights into their critical penetration challenges. With a commitment to continuous innovation, we transform these challenges into highly technical building envelope solutions.



## CODE COMPLIANT

RPH products are engineered to not only meet but exceed industry codes, ensuring your project adheres to the highest standards of safety and quality. Trust in our commitment to excellence, where code compliance is integrated into every solution we offer.



## PARTNERSHIP & SUPPORT

Our team is dedicated to supporting you throughout the entire process, from early specification to final installation.



## INSURED WARRANTY

We stand by our products with a 20-year insured warranty for our VAULT® line and our RPH EXIT SEALS™, and a 10-year insured warranty for our CYCLONE® line.

# WHO WE SERVE

## AUDIENCE

Specifiers	Contractors	Building Owners & Managers	Code Officials
Architects & Engineers	General	Facility Managers	
Roofing Consultants	MEP	Owners	
MEP	Roofer	Developers	
Specifier Consultants	IT Contractors		
IT Engineers			



READY TO ELEVATE YOUR KNOWLEDGE? JOIN OUR NEXT WEBINAR!

Ideal solution for pipes, conduit, ductwork, communication cables, and other penetrations passing through the building envelope.



## ADVANCED SOLUTIONS FOR ROOF & WALL PENETRATIONS

The VAULT® provides a consolidated, secure, and configurable pathway for multiple components that penetrate the building envelope.

- Reduces the number of roof deck and wall penetrations
- Meets mandatory wind and air permeance codes
- Flexibility for future projects
- Advanced engineering for complex penetration issues



### A PARADIGM SHIFT IN PENETRATION PROTECTION

Our VAULT® product line presents a game-changing evolution in penetration protection. Our standard options, including AW VAULT®, AWI VAULT®, and Wall VAULT®, are built to withstand tough weather conditions, ensuring the integrity of roofs and walls, all backed by a 20-year warranty. For projects with unique requirements, explore our Custom VAULT® line, allowing you to design a tailored solution while maintaining our high-quality standards.

### STANDARD VAULT OPTIONS



### WHY THE VAULT®?

We understand the challenges presented by roof and wall penetrations – these vulnerable areas can compromise your project's integrity. The VAULT® not only complies with codes and minimizes the number of roof deck and wall penetrations but also provides flexibility for future projects. Our ready-to-install housing, designed with custom-fit sizing for penetration holes, helps to reduce on-site installation errors often associated with interpreting penetration details in the field.

### CUSTOM VAULT®

Custom solutions are available if our standard products don't meet your project needs.



EXPLORE MORE DETAILS ABOUT OUR VAULT® PRODUCT LINE

Ideal solution for penetrations in safe rooms/storm shelters, and high-wind vulnerable areas

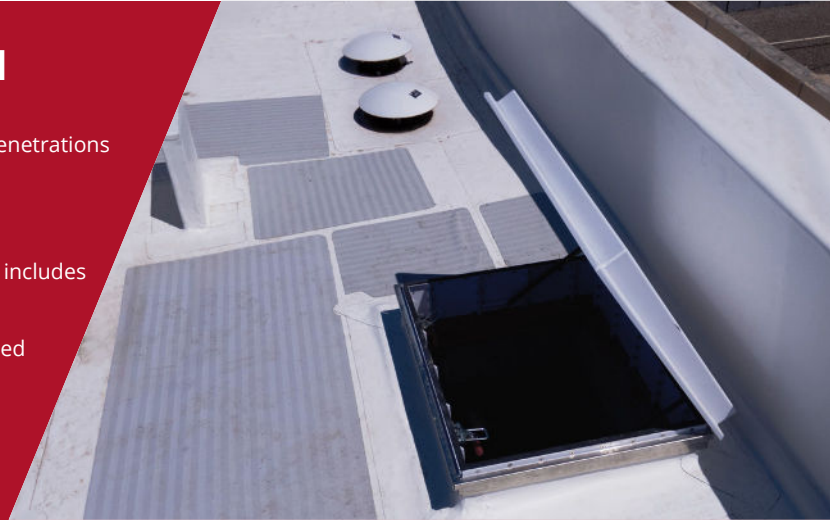
# CYCLONE®

Maximum Wind Protection

## MAXIMUM WIND PROTECTION

CYCLONE® products provide an exceptional level of protection for penetrations on projects located in areas susceptible to high-wind events.

- Third-party tested to meet mandatory ICC 500 and FEMA P-361 requirements for safe rooms/storm shelters penetrations, which includes Missile Impact Testing and labeling
- Two-point deflection design to meet ICC standards and offer added protection for occupants in high wind areas
- Eliminates costly leak repairs and ensures the safety of your building, contents, and occupants against weather-related damage



### INNOVATIVE PENETRATION SOLUTIONS FOR PROJECTS IN HIGH WIND AREAS

All CYCLONE® products are third-party tested to meet ICC 500 and FEMA P-361 to 250+ mph wind, including missile impact testing. They are engineered with a two-point deflection for ICC compliance and optimum safety and fabricated from 3/16" carbon steel or schedule 40 steel pipe with industrial coating and SRI 88.2. With a 10-year warranty, our CYCLONE® line ensures optimal performance. Explore our CYCLONE® product line, designed to meet stringent requirements for safe rooms/storm shelters and projects in high wind areas.



STEEL HOUSING



ROOF DRAIN



ROOF HATCH



WALL SHROUD



VENT THROUGH ROOF



WALL DOWNSPOUT

### WHY THE CYCLONE®?

Ensuring the safety of occupants in regions prone to severe weather and high winds is not only a design necessity but also mandatory code requirements in such areas. CYCLONE® products stand out as a high-value technical solution, engineered to excel in these challenging conditions, offering architects and engineers an advanced solution for strengthening the building envelope in such areas and helping them meet mandatory building codes.

### CYCLONE®

Discover the durability and innovation of CYCLONE® solutions for safe rooms/storm shelters—third-party tested to meet ICC and FEMA standards. Unmatched protection for penetrations in high-wind areas.



EXPLORE MORE DETAILS ABOUT OUR CYCLONE® PRODUCTS

Adaptable solutions for larger penetrations, multiple penetrations, and special applications.

## DESIGN BEYOND BOUNDARIES: CUSTOMIZED VAULT® AND CYCLONE® SOLUTIONS

Reimagine penetration protection with RPH's custom VAULT® and CYCLONE® solutions, transcending our standard designs and pushing engineering boundaries to deliver maximum, project-specific protection.

- Beyond our standard products; custom solutions that solve the unsolvable
- Expertly crafted and factory-built to match your project's specific needs
- Configurable for multiple trade requirements within one assembly
- Limitless options - custom solutions for any size, type, and quantity



### UNLEASH THE POWER OF CUSTOM PENETRATION PROTECTION

Experience ultimate reliability and performance with our custom penetration protection solutions, setting a new industry benchmark. Our products provide maximum protection for critical facilities, ensuring peace of mind and mitigating risks. From advanced engineering to precise manufacturing, we deliver exceptional solutions that meet your exact project requirements.



### WHY CUSTOM?

When you're confronted with penetration challenges and struggle to find off-the-shelf products that match your requirements, or when your detailed penetration plans seem to get misinterpreted during on-site execution, what do you do? At the core of our custom solutions lies a collaborative approach, starting with a thorough consultation to understand your project-specific requirements and challenges. Our team of engineers then designs precision penetration solutions for optimum performance and reliability.

### THE RPH CUSTOM METHOD AT A GLANCE



#### 1 CONCEPT DEVELOPMENT

We work with the Specifier to develop a custom penetration protection solution that fits the project's needs and provide a budgetary estimate.



#### 2 ORDER PLACEMENT

We work with the General Contractor or Subcontractor to finalize the configuration, complete the Purchase Order and generate the Approval Documents.



#### 3 MANUFACTURING

Upon final approval, we complete the shop drawings, schedule manufacturing, oversee production, handle revisions and change orders, and ensure timely delivery.



#### 4 INSTALLATION & SUPPORT

Scan the QR code on each product for instant access to installation instructions, FAQs, certification details, and technical support.



Ideal solution for weather-tight sealing of pipes, conduit, ductwork, communication cables, and other penetrations passing through our VAULT®, CYCLONE®, and Custom products.

**RPH EXIT SEALS™**  
Weather-tight Sealing Solutions

## ADVANCED PROTECTION AND WEATHER-TIGHT SECURITY FOR YOUR PENETRATIONS

RPH Exit Seals™ are a key component of our VAULT® assemblies and many of our CYCLONE® assemblies, ensuring essential weatherproofing for every penetration.

- Maximizes your penetration protection
- Compatible with a variety of penetrations
- Our gasket material flexibly accommodates penetrant movement
- Premium engineering and materials
- Lightweight and easy to install



### A KEY COMPONENT OF OUR VAULT® AND CYCLONE® ASSEMBLIES

Our exclusive RPH Exit Seals™ are engineered with SiX-14™ gasket material and designed to provide essential weather-tight protection for each penetration in our VAULT® and CYCLONE® assemblies. Please note that RPH Exit Seals™ are **not sold separately** and are required for warranty coverage on our VAULT® and CYCLONE® housings.



### WHY THE RPH EXIT SEALS™?

A proper exit seal is vital for the success of building projects, serving as a crucial barrier to ensure that pipes, conduit, ductwork, communication cables, and other penetrations passing through structures, such as our VAULT®, CYCLONE®, and Custom products. Our RPH Exit Seals™ excel in this role, minimizing risks like water damage and corrosion, extending structure life, and reducing maintenance costs. Architects, engineers, and construction professionals recognize that choosing a quality exit seal like the RPH Exit Seal™ is fundamental for project longevity and functionality.

### OUR RPH EXIT SEALS™ PRODUCT LINES

#### 5000 SERIES

Ranges from .25" OD to 1.9" OD



VAULT®



CYCLONE®

#### 6000 SERIES

Ranges from 2.00" OD to 3.125" OD



#### 7000-10000 SERIES

7000 series ranges from 3.5" OD to 4.5" OD  
10000 series ranges from 5" OD to custom size OD



EXPLORE MORE DETAILS ABOUT OUR RPH EXIT SEALS™





RPH is a trusted leader in building envelope solutions, **specializing in roof and wall penetration protection.** Our engineering services enable product customization, setting an industry benchmark for innovation and personalized service. Collaborating with engineers and architects, we develop high-value technical solutions for the building envelope. Experience creative problem-solving with RPH.

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