



# CHEZY SIPHONIC RAINWATER DRAINAGE SYSTEM

The Cost-Effective Rainwater Drainage Solution



**FASTER WATER REMOVAL RATES, 10 TIMES MORE  
THAN GRAVITY ASSISTED FLOW**

**RELIABLE INSTALLATION, 12 YEARS  
GUARANTEE ON THE SYSTEM**





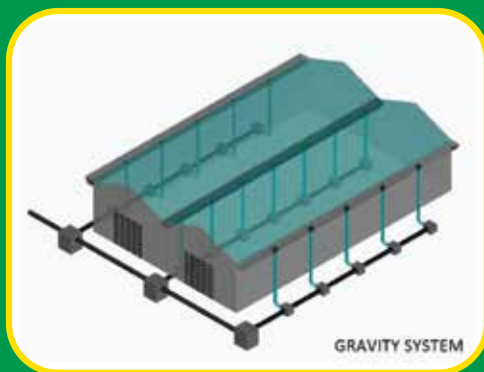
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## CHEZY SIPHONIC **RAINWATER DRAINAGE SYSTEM**

>> Chezy Manufacturing Sdn. Bhd. Together with their partners, Zhejiang Zhongcai Pipes Science & Technology Co. Ltd. Will provide a complete package for rainwater drainage systems. This package includes design, the manufacture of pipes and fittings, installation at site and 12 years warranty on our rainwater drainage system. Our system can be used in industrial factory buildings, railway stations, high-rise buildings, large supermarkets, libraries, opera houses, gymnasiums, large warehouses, airports, and other large roof buildings.

Chezy with their technological partners who have more than 10 years of experience in this field and having completed more than 100 projects, will provide you with design flexibility and peace of mind. Having a large experienced design team, we are able to provide you a cost effective and safe design for all of your rainwater applications. We produce calculations, factory ready drawings, bill of quantities and installation.

## Understanding roof drainage systems



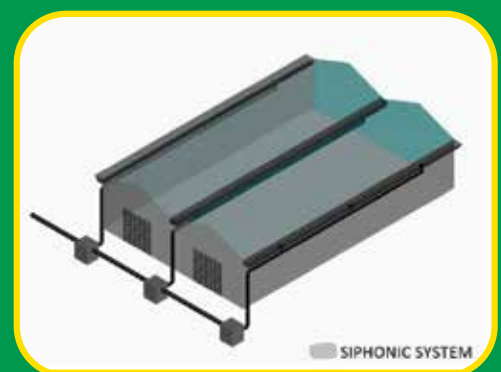
*Figure 1: Gravity drainage system pipeline network (many branches)*

### Gravity System

The gravity roof drainage systems function by guiding rainwater from the roof through gutters, outlets, and downpipes. However, a drawback of this system is the vortex action it creates, pulling air into the pipes and causing a substantial reduction in drainage capacity, up to two-thirds, due to the significant volume of air present.

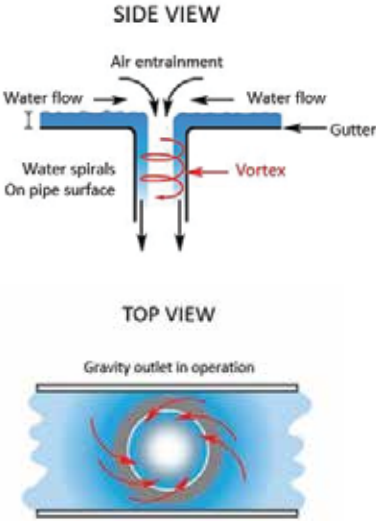
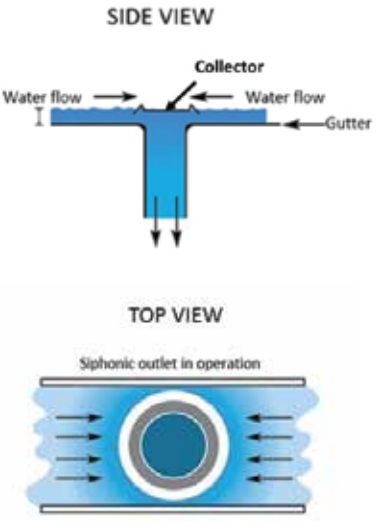
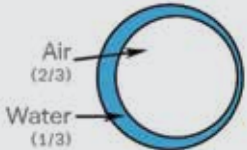

### Chezy Siphonic System

In comparison to gravity systems, Chezy siphonic roof drainage systems has two main distinctions. Firstly, our outlets are uniquely designed to limit air entry. Secondly, the rainwater pipes run full-bore from gutter to downpipe. The essential "priming" process introduces siphonic action, which enables faster water discharge, resulting in quicker gutter clearing than traditional gravity systems.



*Figure 2: Chezy Siphonic drainage system pipeline network (very less branches)*

# GRAVITY SYSTEM VS CHEZY SIPHONIC SYSTEM

CRITERIA	GRAVITY SYSTEM	CHEZY SIPHONIC SYSTEM
<p><b>System</b></p>	<p>In a gravity system, as water flows through the downpipe, it creates a spiral motion along the inner wall (vortex), leaving an air-filled core at the center of the water flow. This inefficient drainage leads to reduced effectiveness.</p> 	<p>Chezy Siphonic systems effectively prevent air entry and maintain a full-bore flow, allowing water to flow with negative pressure, ensuring highly efficient drainage.</p> 
<p><b>Flow Condition</b></p>	<p>The pipe's cross-section contains approximately one-third water and two-thirds air.</p> 	<p>100% water (full-bore flow)</p> 
<p><b>Pipe Sizes</b></p>	<p>Large</p>	<p>Small</p>
<p><b>Flexible in Design</b></p>	<p>Inflexible</p>	<p>Flexible</p>
<p><b>Underground pipe</b></p>	<p>Many</p>	<p>Less</p>
<p><b>Gutter size</b></p>	<p>Large</p>	<p>Small</p>
<p><b>Horizontal pipe slope</b></p>	<p>Required. Consumes building's vertical space.</p>	<p>No gradient required. Saving valuable space.</p>
<p><b>Price</b></p>	<p>High (in case of large buildings)</p>	<p>Cost saving up to 30%</p>

# HOW CHEZY SIPHONIC SYSTEM WORKS?

The water flow through Chezy siphonic system can be summarized in four steps.

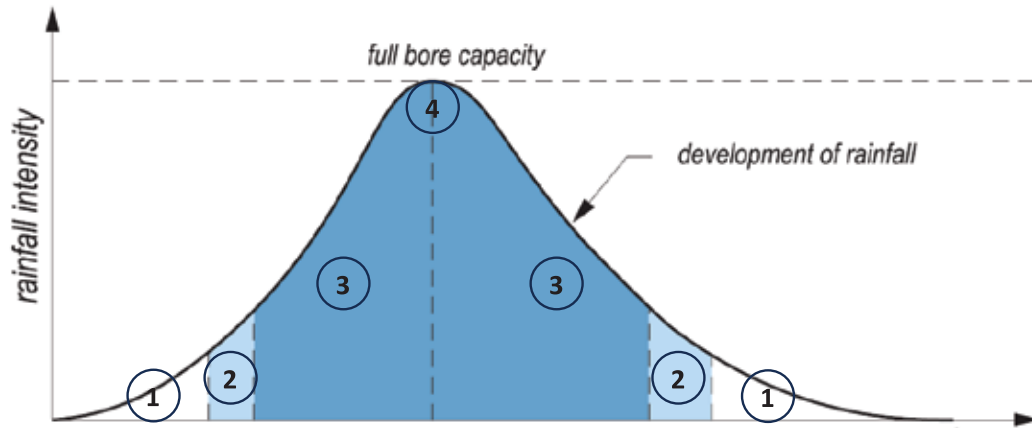
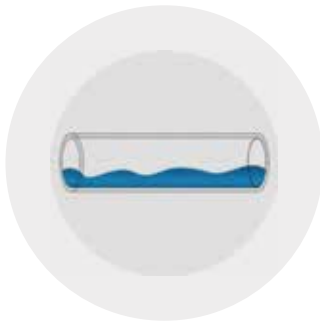
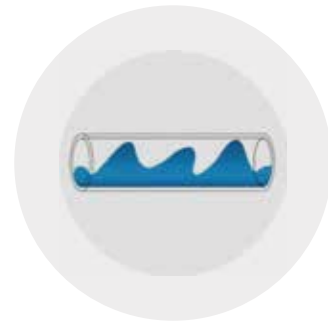


Figure 3: Rainwater flow pattern with rainfall intensity



## 1) GRAVITY FLOW

During the initial and final stages of rainfall or when the rainfall intensity is low, the siphonic system behaves similarly to a gravity rainwater system, allowing both air and water to enter. In this scenario, the flow pattern operates as gravity flow.



## 2) PLUG FLOW

As rainfall intensity increases, the flow pattern transitions into a Plug flow stage, where the pressure-driven approaches atmospheric pressure. Hydraulic plugs form inside the pipe as water fills up. This stage triggers a self-cleaning action to take place.



## 3) BUBBLE FLOW

As water rapidly fills up the pipe, the flow pattern continues to carry air bubbles inside, propelled by atmospheric pressure.



## 4) FULL BORE FLOW

During heavy rainfall, the system becomes fully primed as the pipe system fills up with water and becomes de-pressurized, operating below atmospheric pressure. With water driven at high velocity, the system achieves its optimal designed capacity, delivering peak performance and high discharge volume.

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# CHEZY SIPHONIC SYSTEM SERVICES & PRODUCTS

With Chezy, your rainwater drainage systems are solved without issues. Our team accompanies you from planning stage, from design including installation and maintenance service.

## SOLUTION DEVELOPMENT

Our application engineering team is dedicated to deliver solutions for your water draining requirements from the project's outset. Using cutting-edge software, we perform precise calculations based on your architectural drawings to tailor a solution perfectly suited to your needs. If necessary, we also offer customized solutions to meet specific demands.

## INSTALLATION TEAM

We offer turn-key installations managed by our own specialists . This guarantees that the installation adheres to design and drawings.

## AFTER SALES AND WARRANTY

After the installation is finished and validated, Chezy offers a 12 years warranty for the proprietor's peace of mind. Should any needs arise, our dedicated after-sales service team is readily available to provide support and assistance.



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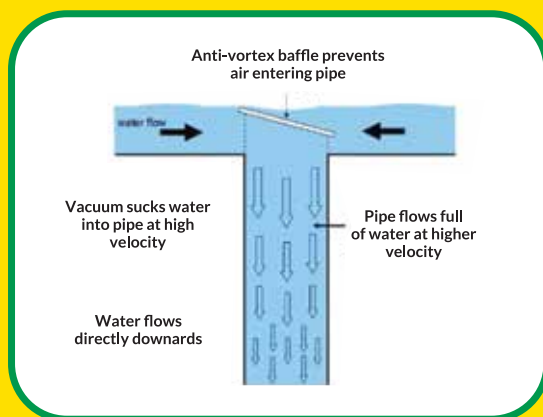
## WHY CHEZY SIPHONIC?

- A. *Faster water removal rates, 10 times more than gravity assisted flow*
- B. *Reliable installation, 12 years guarantee on the system*
- C. *Structural and space savings*
- D. *Ideal for complex roof shapes*
- E. *Fewer openings in roof, reducing chances of roof leakages.*
- F. *Project cost reduction (save up to 30%)*
- G. *Fewer and smaller downpipes, 75% less pipes required*
- H. *Enable water storage to desired location*
- I. *Safety and practicability*

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### **A** Faster water removal rates, 10 times more than gravity assisted flow

Unlike gravity drainage system, the absence of air and atmospheric pressure in the Chezy Siphonic Drainage system creates a negative pressure in the pipe and the siphonic effect begins. The system then 'sucks' water from the roof at 10 times more than gravity assisted flow, resulting in higher operating discharge velocities of 1m/s up to 9m/s.



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### **B** Reliable Installation, 12 years guarantee on the system

Chezy offers excellent installations managed by our own specialists. This guarantees that the installation adheres to design and drawings. On top of that, after the installation is finished and validated, Chezy offers 12 years warranty for the proprietor's peace of mind. Should any needs arise, our dedicated after-sales service team is readily available to provide support and assistance.

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## **C** Structural and space savings

A gravity system requires multiple droppers dictated by pitch, once the pipework crosses into liveable space, a vertical dropper is needed. This inhibits design flexibility. Chezy Siphonic Drainage system offers great design flexibility as the pipe runs at zero slope and only a very few droppers are required, resulting in structural and space savings.

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## **D** Ideal for complex roof shapes

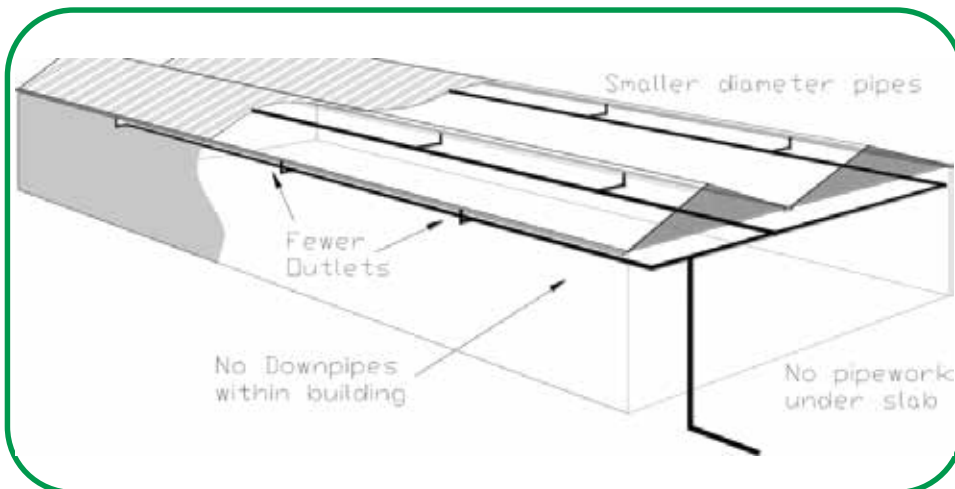
Our rainwater collector is so flexible that it can be stationed on all types of roofs flexibly, can adapt to all modern and irregular roof designs.



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## **E** Fewer openings in roof, reducing chances of roof leakages

Chezy Siphonic System requires very less roof openings to be made. Fewer roof openings drastically reduce the chance of roof leakages, making our siphonic system a trouble-free and cost-effective complete drainage system.





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## **F** Project cost reduction (save up to 30%)

By using the Chezy Siphonic system, your project cost can be greatly reduced, most notably by cutting drainage pipes diameter in half. Larger diameter pipes are not required as the air is restricted from entering the Chezy Siphonic System. Thus, our system is designed with smaller pipes with full bore flow capacity. Additionally, Chezy Siphonic Drainage System pipes run with zero slope, the roof drains can now be collected on the top floor and channel pipes to one vertical dropper, compared to the costly gravity system which requires multiple droppers to be installed. Outside the building, our system only requires fewer underground pipes, resulting in very minimal trenching work for underground pipes, reduces the project cost greatly. Chezy's Siphonic Drainage system is proven to produce material savings from pipes, fittings, couplings, and hangers. The labour savings is more substantial when compared to the gravity drainage system.

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## **G** Fewer and smaller downpipes, 75% less pipes required

In the Chezy Siphonic Drainage System, the pipes run with zero slope, allowing the collection of roof drains on the top floor, and channelling them all into fewer droppers. This contrasts with the expensive gravity system, which requires the installation of many multiple droppers.

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## **H** Enable water storage to desired location

Chezy Siphonic System provides a complete solution by enabling the project owner to customise the system. We can integrate drainage solutions for all requirements from roof collection to rainwater harvesting and storage to recycling with a complete range of pipework solutions.

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## **I** Safety and Practicability

Chezy has taken all steps to ensure the high safety of our siphonic system. The system design and material requirements are precisely computed using software to eliminate human errors. The Chezy system also offers more roof discharge flow rate using lesser space as compared to the gravity assisted flow, being a practical solution to roof drainage problems.

# CHEZY SIPHONIC RAINWATER DRAINAGE SYSTEM TECHNICAL SECTION

## Hydraulic design principles

### A. Application of Bernoulli Equation

Flow conditions within a siphonic roof drainage system can be calculated using the fundamental Bernoulli equation which relates to changes between the potential, pressure and kinetic energies of the fluid and takes account of energy losses due to frictional resistance and turbulence in the pipes and fittings.

Most of the siphonic systems, including Chezy Siphonic Rainwater Drainage system are sized on the assumption that all the pipes in a system are flowing 100% full of water at the design flow rate, which is determined from the specified design rainfall intensity for the building and the catchment area drained by the system. The system will be able to self-prime and the flow entering the system will be able to remove all the air that is initially within the pipes at the start of a design storm event.

Applying the Bernoulli equation to the flow of a fluid of constant density under steady- state conditions between two points in a siphonic system gives:

$$\left( p_1 + \frac{1}{2} \rho V_1^2 \right) - \left( p_2 + \frac{1}{2} \rho V_2^2 \right) = \Delta E_{12} - \rho g \Delta z_{12}$$

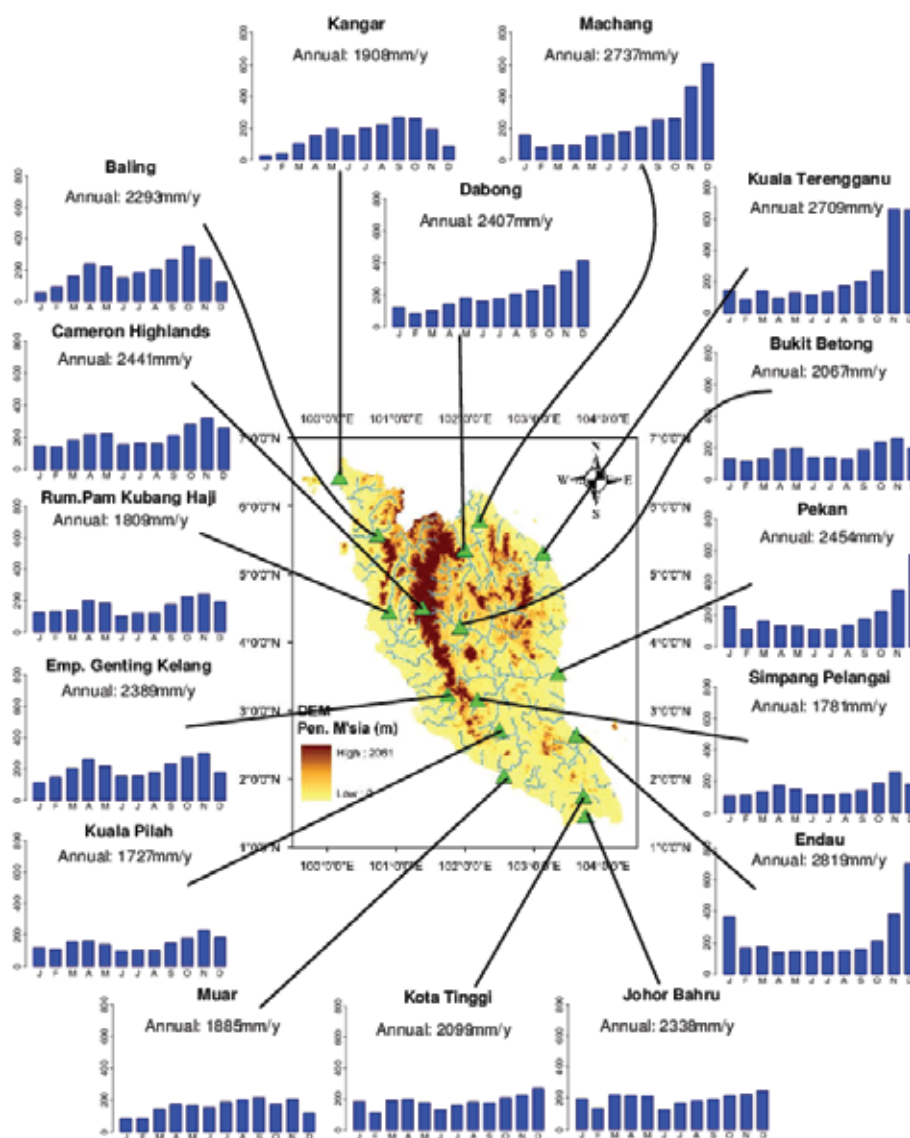
where:

- $p$  = static pressure at a point in the fluid (in N/m<sup>2</sup>)
- $\rho$  = density of fluid (in kg/m<sup>3</sup>)
- $V$  = velocity of fluid at point (in m/s)
- $\Delta E_{12}$  = loss of specific energy of fluid between points 1 and 2 (in J/kg)
- $g$  = acceleration due to gravity (= 9.81 m/s<sup>2</sup>)
- $\Delta z_{12}$  = vertical height of point 1 above point 2 (in m).

## Design rainfall capacity

### A. Design rainfall intensity

In many places, the design rainfall intensity is already computed and given by national or local regulation and/or practice, e.g., 1900mm/year. If the rainfall intensity is determined, all calculations for designing the Chezy Siphonic system will be based on these values. If the rainfall intensity is not known, the design rainfall intensity can be calculated depending on the duration of the rainfall ( $D$ , in minutes), the geographical location of the building and the return period of the rainfall event ( $T$ , in years).





## B. Roof Areas

To calculate the effective roof area, the roof area projected in the floor plan shall be calculated based on the roof's shape and size;

Roof Area Calculations Chart

OBJECT	AREA
RECTANGLE	Area = (A) x (B)
SQUARE	Area = (A) x (A)
TRIANGLE	Area = (B) x (h) x (1/2)
TRAPEZOID	Area = (B1 + B2) x (h) x (1/2)

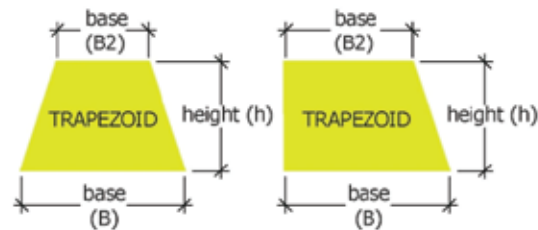
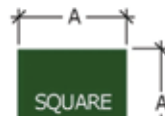
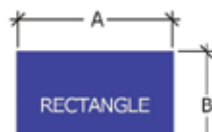


Figure 5: Common roof types area calculation

## C. Effective catchment area

When there are adjacent walls next to a roof area, wind blowing against this wall might also intercept rain. Figure 6 shows the effective catchment area assumed in design.

If the angle of the catchment area to the horizontal plane is bigger than 45°, the following reduction factor R on the effective catchment area will be applied:

- > 45°: 0.8
- > 60°: 0.6
- > 85°: 0.3

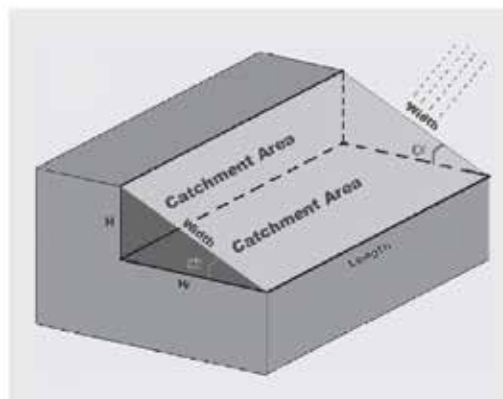


Figure 6: Effective catchment area

## D. Run-off coefficient: C

Along with the duration of the rainfall (D, minutes), it is also necessary to consider the time of concentration of the drainage system,  $T_c$ . The time of concentration is the time taken for the rain falling on the most top part of the roof to reach the roof collector. Factors affecting the time of concentrations are;

- The distance between the most top part of the roof and the roof collector
- The slope of the roof
- The type of roof surface
- A combination of these factors

Our engineers use the following guidelines for the run-off coefficients “C” of various roof types:

Type of roof	Run off coefficient C
Sheet roof with slope $> 3^\circ$	1
Sheet roof with slope $< 3^\circ$	0.8
Gravel roof	0.5
Intensive green roof	0.3
Extensive green roof $< 10\text{cm}$	0.5
Extensive green roof $> 10\text{cm}$	0.3

Figure 7: Run off Coefficient with roof types

## E. Design rainfall quantity

The design rainfall quantity to be used for the hydraulic calculations is:

$$Q = r \times A \times C \text{ (or } \times R)$$

In which:

Q = the rate of flow in l/s

r = rainfall intensity in l/(s.m<sup>2</sup>)

A = effective catchment area in m<sup>2</sup>

C = run-off coefficient

R = Reduction coefficient due to the slope of the catchment area

# CHEZY SIPHONIC RAINWATER DRAINAGE SYSTEM COMPONENTS

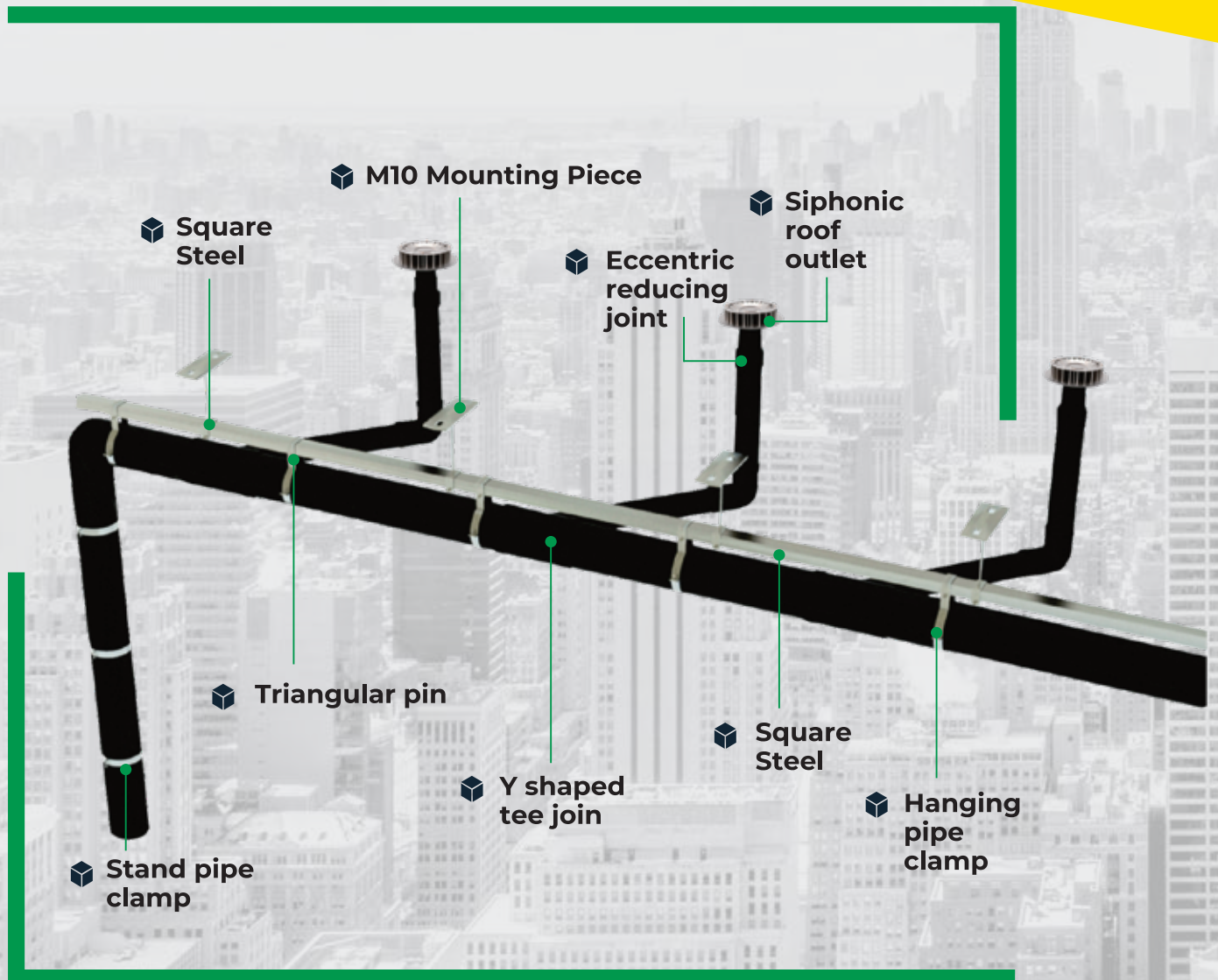
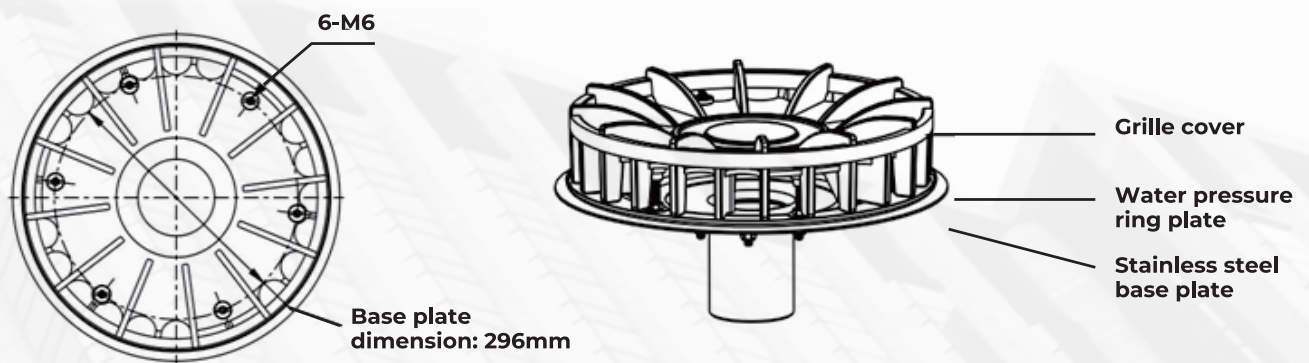


Figure 8: Chezy Siphonic Rainwater Drainage System Components

Chezy siphonic roof rainwater system generally consists of the siphon rainwater collector, pipes (connecting pipe, hanging pipe, stand pipe, discharge pipe), pipe fittings, and a fixing system.

The fixing system consists of a suspension fixing system (m10 mounting piece, m10 screw rod, small riding clamp, hanging pipe clamp, triangular pin, square steel connector, square steel), and a stand pipe fixing system (m20 mounting piece, m20 screw rod, stand pipe clamp).

## 01. Collector



Chezy Siphonic collector is the starting point of Chezy's siphonic rainwater drainage system. With air-water separation and anti-vortex functions, it facilitates the formation of full-bore flow throughout the entire system. The collector is made of 304 stainless steel material, and the grille cover is made of cast aluminum.

Our siphonic roof collector is the central component of the entire system. Rainwater within the collection area is channeled through gutters and directed into the roof collectors. With the special features of the siphonic roof collector, such as anti-vortex devices, it prevents the formation of vortices and effectively blocks air from entering the system, thus optimizing the drainage efficiency of the system.

The Chezy siphonic roof collector has the following characteristics:

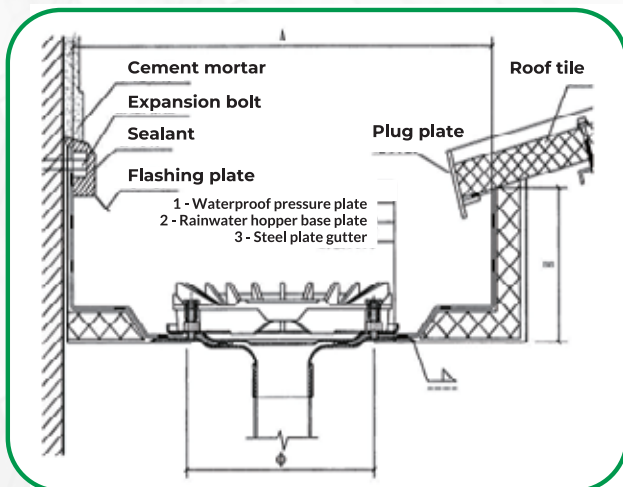
- Unique patented technology for design and manufacturing, with an attractive appearance, high mechanical strength, and long service life.
- Large drainage flow, stable flow state, and excellent air-water separation effect.
- Excellent corrosion resistance, no need for anti-corrosion treatment during installation.
- Less penetration of pipes into roof slab.

Tail pipe diameter of rainwater collector (mm)	Design drainage capacity (L/s)
63	12
75	18
90	25
110	45
125	60

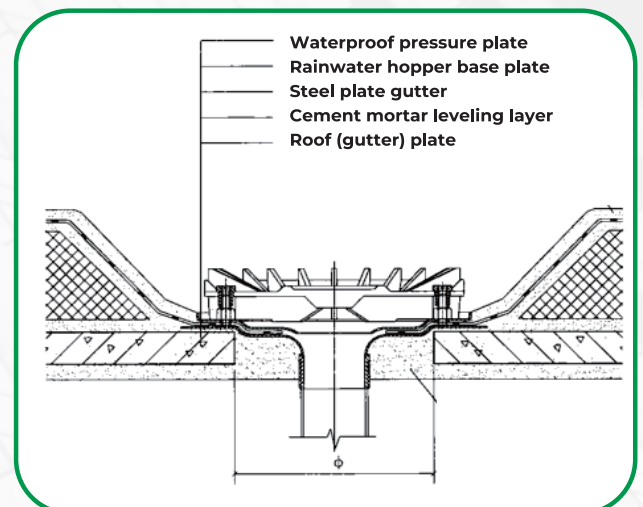
Table 1: Design drainages capacity of siphon rainwater collector

## Installation of Chezy Siphonic rainwater collector in steel roof

1. The rainwater collector base plate is directly welded to the gutter by through electric welding or argon arc welding. The port must undergo anti-corrosion treatment.
2. The waterproof layer inside the gutter is attached to the outer edge of the rainwater collector bell mouth, tightly pressed with a waterproof pressure ring, and fixed with bolts.



Installation of Chezy Siphonic rainwater collector in concrete roof



Installation of Chezy Siphonic rainwater collector in steel roof



## 02. HDPE Pipe and Fittings



### Chezy HDPE Pipe

Polyethylene (PE) has many significant advantages over material like PVC, steel or ductile iron, namely light weight, ability to coil long lengths, high corrosion resistance, ease of jointing, etc. Before the adoption of international standards, polyethylene was commonly named by their density - LDPE (low density polyethylene), MDPE (medium density polyethylene) and HDPE (High Density polyethylene). The higher the density, the higher the strength of the polyethylene as a pipe material. International standards were developed and HDPE pipes were then classified by the grade of material used- PE 40, PE 63, PE 80, PE 100 (according to their MRS Values in bar). The number after PE represents the maximum allowable hoop stress (in bar) for the pipe.

<b>PE 40</b> – Low pressure piping systems
<b>PE 63</b> – Medium piping system irrigation system
<b>PE 80</b> – Natural gas distribution network with pressure up to 4 bar. – Drinking water pipes with pressure up to 16 bar construction, sewages, industrial pipes.
<b>PE 100</b> – High demand piping applications

Chezy Siphonic Rainwater Drainage HDPE pipes and fittings are tested and certified to MS 1058 standard; Polyethylene (PE) Piping Systems for Water Supply. Chezy pipes and fittings are connected using butt fusion or electrofusion welding, ensuring safe and reliable connections. All selected pipes and fittings have undergone rigorous hydraulic testing. The Chezy Siphonic Rainwater Drainage system is designed to withstand negative pressure resistance created in the pipeline due to siphonic action. The minimum negative pressure resistance of the system shall be at 0.8 bar. Taller buildings require higher negative pressure resistance design. On the other hand, to withstand the positive pressure in the Chezy Siphonic HDPE system; varies for every project, pressure pipes and fittings ranging from PN6 to PN16 are used and have the following important benefits:

- High rainwater drainage efficiency and has a long service life.*
- Installed by welding method, by heating. Makes the welding joints fused together, strong and free from leakage.*
- The pipe is flexible. Suitable for use as a rainwater pipe in the siphonic system and is resistant to negative pressure inside the pipe and is resistant to impact*
- Resistant to corrosion and chemicals.*



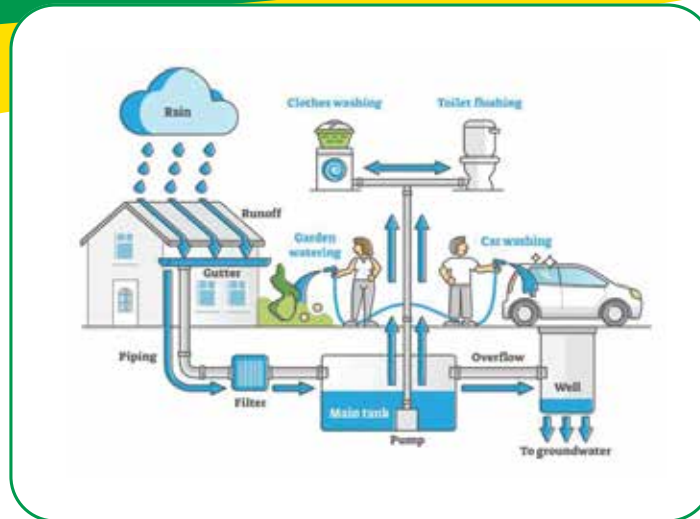
The Chezy Siphonic Rainwater Drainage Supports and Clamps are the backbone of the system. Due to the siphonic action in the Chezy Siphonic rainwater drainage system, the water in the pipes flows at high speed. When the high-water mass changes its flow direction rapidly, the system may experience sudden shocks at the joints, shaking the pipeline. Therefore, it is recommended to use support equipment that is strong. The inner diameter of the Chezy Clamps is slightly smaller than the outer diameter of the rainwater pipe. Once the clamp is installed to the HDPE rainwater down pipe, the clamp installation point (at joints) becomes a fixed point, preventing pipelines from shock and shaking, ensuring a safe system.

Chezy Siphonic HDPE Pipeline Size (mm)	Recommended Support and Clamp spacing (m)
<b>63</b>	<b>1.3</b>
<b>75</b>	<b>1.5</b>
<b>90</b>	<b>1.67</b>
<b>110</b>	<b>1.70</b>
<b>125</b>	<b>1.95</b>

*Table 2: Chezy Supports and Clamps Spacing*

*Note: The spacing for Chezy Supports and Clamps at site may vary. The actual spacing is precisely calculated by our software.*

# CHEZY RAINWATER HARVESTING



Chezy siphonic roof drainage system stands out as one of the most efficient technologies available for capturing rainwater from a building's rooftop, facilitating the practice of rainwater harvesting. In this system, multiple roof drain outlets can be linked to a single vertical discharge pipe. With fewer discharge points and no need for a slope in the piping, rainwater can be effortlessly directed horizontally beneath the roof to a storage tank. This stored rainwater becomes readily accessible for various non-potable applications, including flushing toilets and urinals, supporting mechanical systems, serving custodial needs, and irrigation for the site's landscaping.

One of the primary advantages of incorporating siphonic roof drainage and rainwater harvesting systems into building design is the reduction in overall construction and facility operation costs. Additionally, there are other valuable benefits, such as the decreased release of rainwater into lakes, streams, rivers, and sanitary systems, as well as reduced reliance on municipal water supplies.

## Benefits of Rainwater Harvesting:

### 01. Industrial and Commercial Use

a. Water Conservation	b. Decreased Municipal Water Usage	c. Reduction in Stormwater Runoff
<ul style="list-style-type: none"> <li>i. For site irrigation</li> <li>ii. For toilet and urinal flushing</li> <li>iii. For janitorial purposes</li> <li>iv. For fire protection</li> </ul>	<ul style="list-style-type: none"> <li>i. Car washes</li> <li>ii. Commercial laundry facilities</li> <li>iii. Reducing the need for air conditioning through evaporative cooling of the roof surface</li> </ul>	<ul style="list-style-type: none"> <li>i. Allows for more efficient land use (e.g., less space needed for on-site detention)</li> <li>ii. Above-ground and below-ground storage can help reduce mosquito issues on the site</li> <li>iii. Mitigates soil erosion and local flooding by lowering runoff rates and volumes</li> <li>iv. Enhances water quality in nearby streams, rivers, and watersheds.</li> </ul>
<p><b>d. Fosters positive public relations by demonstrating a commitment to environmental responsibility through the reduction of runoff.</b></p>		

## 02. Military Utilization

a. Can be applied for all the industrial and commercial purposes mentioned earlier.
b. Reduces reliance on delivered water supplies.
c. Can function as a backup source in case the primary water supply is contaminated.

## 03. Residential Application

a. Water Conservation	b. Decreases dependence on overburdened municipal water supplies.
<ul style="list-style-type: none"> <li>i. Used for lawn and garden irrigation.</li> <li>ii. Employed in toilet flushing.</li> <li>iii. Utilized in laundry.</li> <li>iv. Employed for car washing.</li> <li>v. Used for filling pools and hot tubs.</li> <li>vi. Serves as a residential fire protection source, potentially lowering insurance premiums.</li> </ul>	<ul style="list-style-type: none"> <li>. Decreases monthly water bills by reducing the reliance on municipal water.</li> <li>ii. Avoids water usage restrictions by collecting one's own water.</li> <li>iii. Reduces or eliminates the need for water treatment systems like softeners.</li> <li>iv. Enhances the market value of homes by reducing water bills and minimizing water usage restrictions.</li> </ul>

## 04. Complementing or Substituting Low-Yield or Poor-Quality Well Sources

a. Rainwater is naturally low in mineral content (soft).
<ul style="list-style-type: none"> <li>i. Reduces or eliminates the necessity for water softening equipment.</li> <li>ii. Decreases the amount of detergent required for laundry.</li> </ul>
b. Can be used to supplement low-capacity wells instead of drilling additional or deeper wells.
c. Enables development in areas lacking sufficient municipal or well water sources.
d. Facilitates development in proximity to wetland areas and streams due to the reduced discharge of rainwater into surrounding bodies of water.
e. In many instances, can serve as a potable water supply after treatment, allowing for complete self-sufficiency, as needed.

# PROJECT REFERENCES



**Project Location:** Zhoushan

**Project Owner:** Zhejiang Huaye Plastic Machinery Co., Ltd.

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*Roof structure: Steel structure  
Roof catchment area: 99,870 m<sup>2</sup>*



**Project Name:** Lanzhou International Trade Center

**Project Location:** Lanzhou City, Gansu Province

**Project Owner:** Lanzhou Oriental Friendship Trading Center Co., Ltd.

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*Building area: 604,215.63 m<sup>2</sup>  
Roof structure: Concrete  
Podium roof catchment area: 48,130 m<sup>2</sup>*



**Project Name:** Yuyao Zhong'an Times Square

**Project Location:** Yuyao, Ningbo

**Project Owner:** Yuyao Zhong'an Times Square Development Co., Ltd.

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*Building area: 400,000 m<sup>2</sup>  
Roof structure: Concrete  
Podium roof catchment area: 24,500 m<sup>2</sup>*



**Project Name:** The precision line construction project of Haiyan Zhongtuo New Material Technology Co., Ltd. with an annual output of 600,000 tons of high-quality steel

**Project Location:** Haiyan Ganpu Project

**Project Owner:** China United Engineering Co., Ltd.

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*Roof structure:* Steel structure  
*Roof catchment area:* 43,139 m<sup>2</sup>



**Project Name:** Shengzhou Liangwen Packaging

**Project Location:** Shengzhou, Shaoxing

**Designer:** Ningbo Mingzhou Architectural Design Institute Co., Ltd.

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*Roof structure:* Steel structure  
*Roof catchment area:* 27,217 m<sup>2</sup>

City	Project	Catchment area m
Liaoning Shenyang	Shenyang world financial center	90000
Zhejiang Shengzhou	Wuyue Square	20500
Zhejiang Ningbo	Yuyao Zhongan Times Square	24500
Hunan Changsha	Hengfei Cable Corporation	210000
Tianjin	Tianjin Lingang industrial park	40900
Zhejiang Yiwu	Yiwu Automobile Trading Center	37187
Sichuan	Southwest Light Industry Expo City	12000
Jiangsu Taizhou	China Medical City	60000
Anhui Bozhou	Jingkai City	60000
Zhejiang Ningbo	Fenghua Incity Plaza	15000
Zhejiang Jinhua	Urban planning exhibition hall	20000
Zhejiang Yiwu	Maternal and child health hospital	15000
Henan Luoyang	Luoyang Damage Gree Rea Estate Co., Ltd	11000
Zhejiang Huzhou	Zhejiang Aoyou Power System Co., Ltd	50000
Fujian Putian	Xianyou international painting city	30000
Liaoning Dalian	Yifeng Motor Town	30000
Zhejiang Zhoushan	Wugongzhi passenger transport center	12000

**and many more. Available upon request**



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