


SIPHONIC STORM DRAINAGE



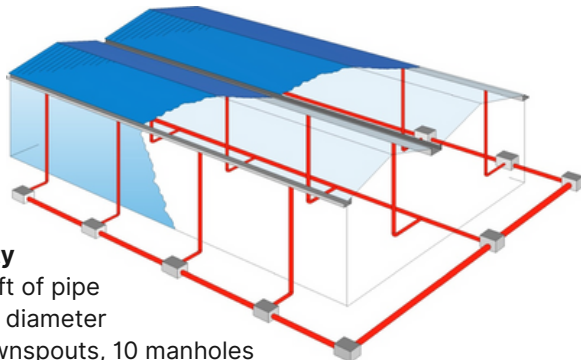
-  FLAT 1/2 DIAMETER PIPE
-  LESS VERTICAL PIPE
-  LESS CIVILS & LABOR
-  ANTI-CLOG & SELF-CLEANING



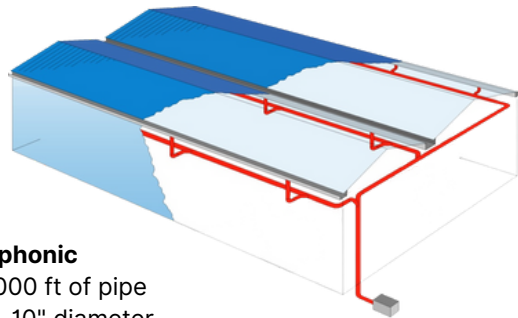
LESS IS MORE

Siphonic roof, gutter, terrace, trench, and parking deck drains by HYDROMAX reduce pipe size, vertical drops, civil connections, project cost, construction time, material amount, increase space, site sustainability, and provide the owner with a design flexible storm water drainage system.

Gravity VS Siphonic | 59,600 sqft.



Gravity
 1,600 ft of pipe
 6"-18" diameter
 12 downspouts, 10 manholes



Siphonic
 1,000 ft of pipe
 3"-10" diameter
 1 downspout, 1 manhole

-65%
 Up to 65%
 Less Pipe &
 Material

-50%
 Reduction in
 Pipe Size

WHY SIPHONIC STORM DRAINS

HYDROMAX Siphonic drains use small diameter pipes installed without pitch. Anti-clog technology combined with siphonic power drain water 4x faster than gravity drains.

Pitch does not dictate design. You do.

No pitch, slope, or excavation required. Siphonic storm pipes run flat and fill 100%, no air is needed. Pipe size & material amount are reduced by half and pipes can be routed to a single civil connection.

No pitch, slope, or equipment required. Just think of what you can do with all that extra ceiling space.

HOW SIPHONIC STORM DRAINAGE WORKS

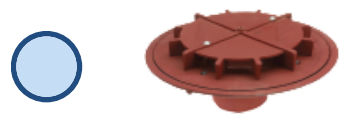
Siphonic storm drainage is based on the simple principle of a siphon using negative pressure, caused from the height of the building and lack of air in the pipes. This pressure pulls storm water off the roof. The higher the elevation, the faster the flow of discharge.

 Pipes are flushed at high velocity and self-clean as air exits the system.

Gravity drains require 2/3 air and large pipes



Siphonic drains have a baffle plate to eliminate air; pipes sized for 100% fill ratio, reducing pipe diameter by 1/2



HYDROMAX Owners



HYDROMAX Designers

SIPHONIC DRAIN SAVINGS

- Up to 65% less material & install cost with 1/2 diameter storm pipe
- Reduced construction time, civil connections, and trenching
- Unrestricted routing control without the need for sloped pipe
- More space, increased ceiling height, and fewer obstructions
- Earn LEED points in 6 categories
- Anti-clog with self-cleaning system and less ponding
- Design assist, calculation, and balancing at no cost
- Complete coordination with MEP or 3rd party Engineer
- Pre-installation call with design team and contractor

Contractor Engineer Architect Owner



WHAT'S WRONG WITH GRAVITY DRAINS

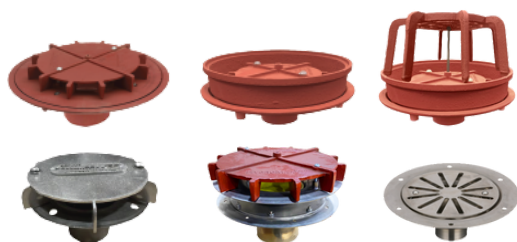
1. More material required
2. More space required
3. More chases required
4. Deeper ponding & clogs
5. Numerous vertical drops & penetrations
6. Added civil connections & site disturbance
7. Pitch dictates pipe routing & discharge
8. Increased building elevations

SIPHONIC CONSIDERATIONS

Connected drains must be over 750 sqft (23GPM MIN) and on the same roof level.

QUESTIONS TO ASK OF CURRENT DESIGN

- A. Any storm pipe inside of the building?
- B. Number of vertical risers?
- C. How many civil connection points?
- D. Amount of internal and external trenching?



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SIPHONIC VIDEOS



PROJECT LISTS



PRODUCT SPECIFICATIONS



UPCOMING EDUCATION SESSIONS

