# 研討會

# 推動建築同層排水工法、發展整體衛浴設備系統

### 主辦單位

台灣衛浴文化協會、中華民國不動產協進會

時間:2020年9月24日PM.13:30-17:00

地點: 將捷國際商業大樓 (B4會議廳)

# 主講人簡介

□姓名: 黃智文

- □服務單位:
- ▶和成集團世奈霸實業有限公司 總經理

- ■簡歷:
- ▶和成工程營業部經理

# 專題報告

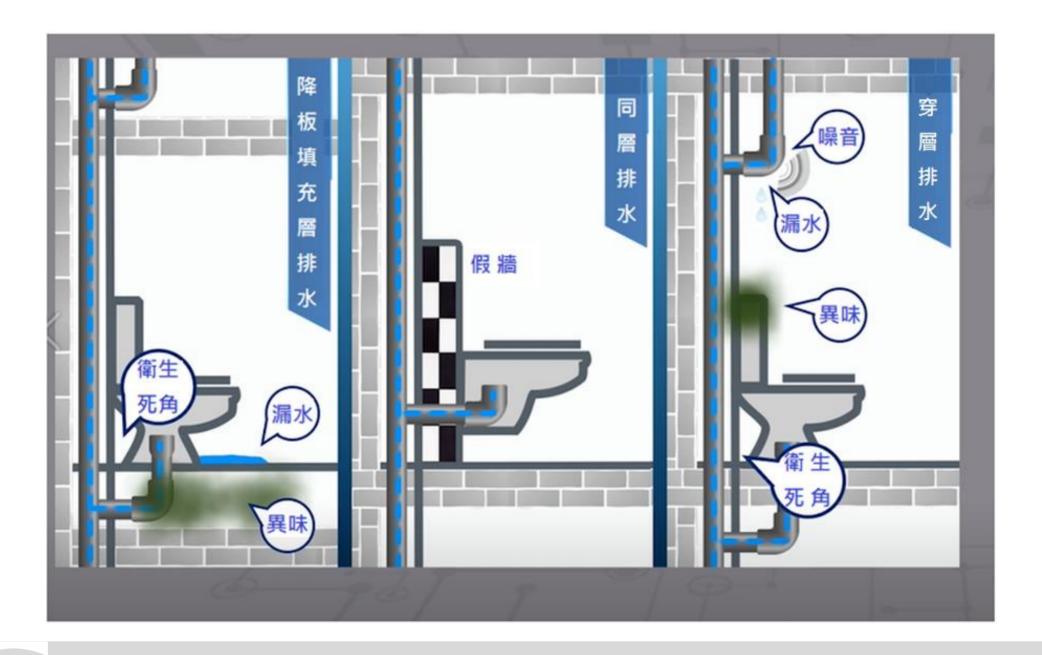
- □主題名稱:
- 同層排水系統:牆前同層側排水系統之工法與案例
- □內容目次:
- 1. GEBERIT同層排水系統
- 2. WHO WE ARE
- 3.OUR REFERENCES
- 4. FULFILLING NEEDS:USABILITY
- 5. FULFILLING NEEDS:SPACE
- 6. FULFILLING NEEDS: CLEANLINESS
- 7. FULFILLING NEEDS:COMFORT





## 同層排水系統

GEBERIT NORTH AND SOUTH EAST ASIA



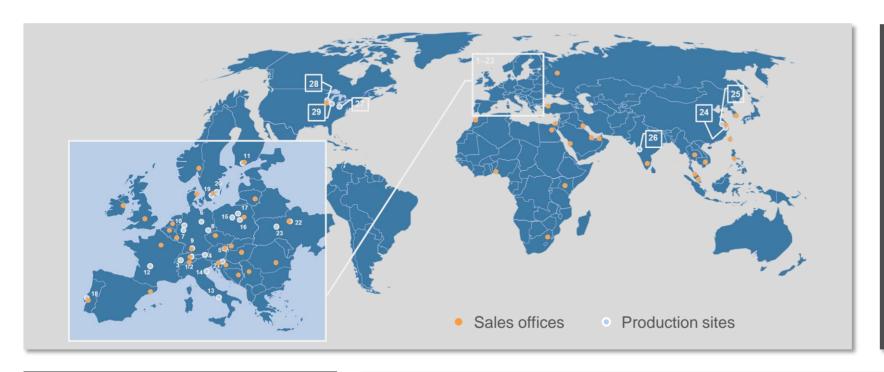






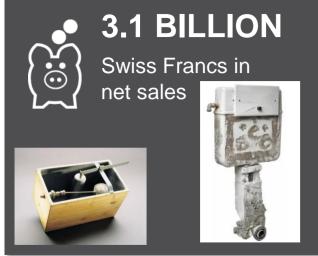


### THE EUROPEAN MARKET LEADER IN SANITARY PRODUCTS



~50 countries with sales organisations

**29** production sites







# **PARKSIDE**, 2017 Freudenstadt, Germany

Developer: Borgmann Bauträger

GmbH

Architect: Schmelzle+Partner

Architekten

### Products:

- Mapress Stainless Steel supply system
- 2. Silent-db20 and Silent-PP drainage systems
- 3. GIS installation system
- 4. Sigma80 actuator plates
- 5. AquaClean Mera Comfort shower toilets
- 6. Wall drain for floor-even showers











### NIMIT LANGSUAN

## BANGKOK, THAILAND

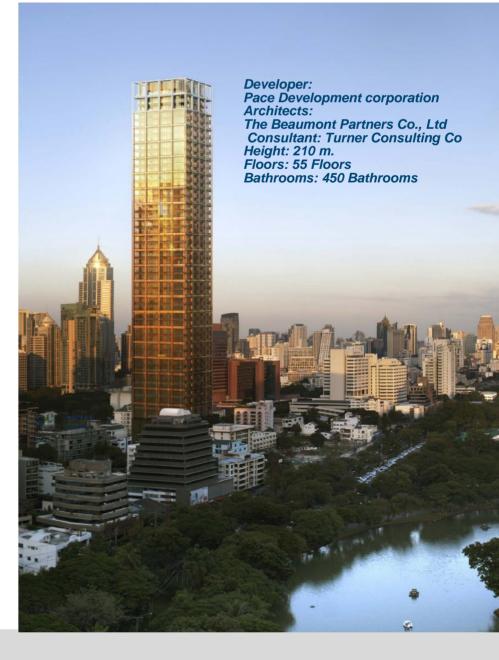
SPACE-SAVING DRAINAGE OF ULTRA HIGH BUILDINGS







"By incorporating innovative products and ideas from around the world that combines aesthetics and function like Geberit Sovent, we strive to achieve our vision in delivering an unsurpassed essence of living to our clients" says |Sorapoj Techakraisri CEO, PACE, Thailand





### GINDI TLV TOWERS

### TEL AVIV, ISRAEL

GINDI TLV is a huge new residential and lifestyle complex in the heart of Tel Aviv. In Tel Aviv space is a precious good, and thus the developers were interested in getting a solution that could save as much space as possible. Geberit single stack Sovent system as they could downsize the diameter of the pipes from 160 mm to 110 mm and the space-saving ended up in a size of an apartment.



"Space is an issue in every project! The shaft got smaller by the help of Sovent. An average difference of 0.06 sqm resulted in a total saving of about 45 sqm per tower. The size of a small apartment!"

### **ALL FOUR TOWERS:**

Developer: Gindi Tel Aviv Towers Ltd.

Architects: MYS Architects / Yasky Mor Sivan

Consultant: Zvi Pollak Height: 160 - 180 m

Floors: 46 - 50

Bathrooms: approx. 1152 in each tower

To be completed: 2023









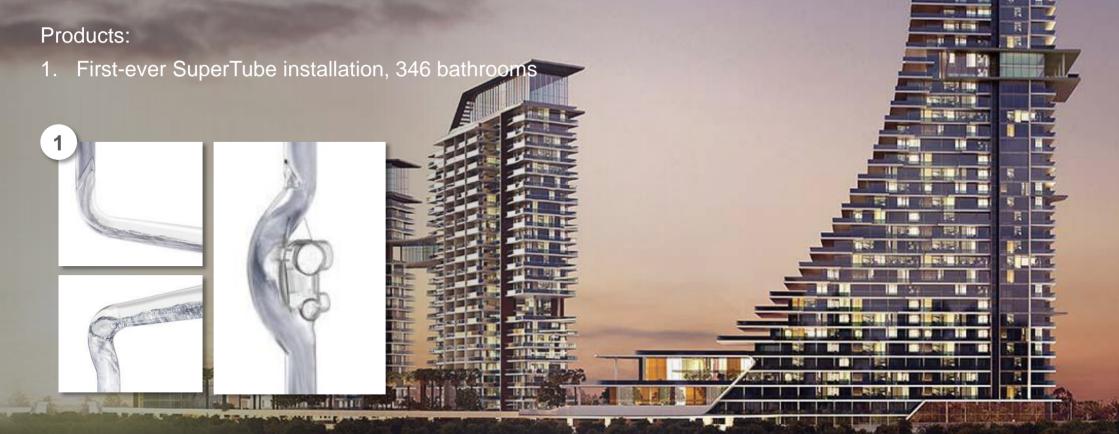


Pune, India

Developer: City Corporation, Pune

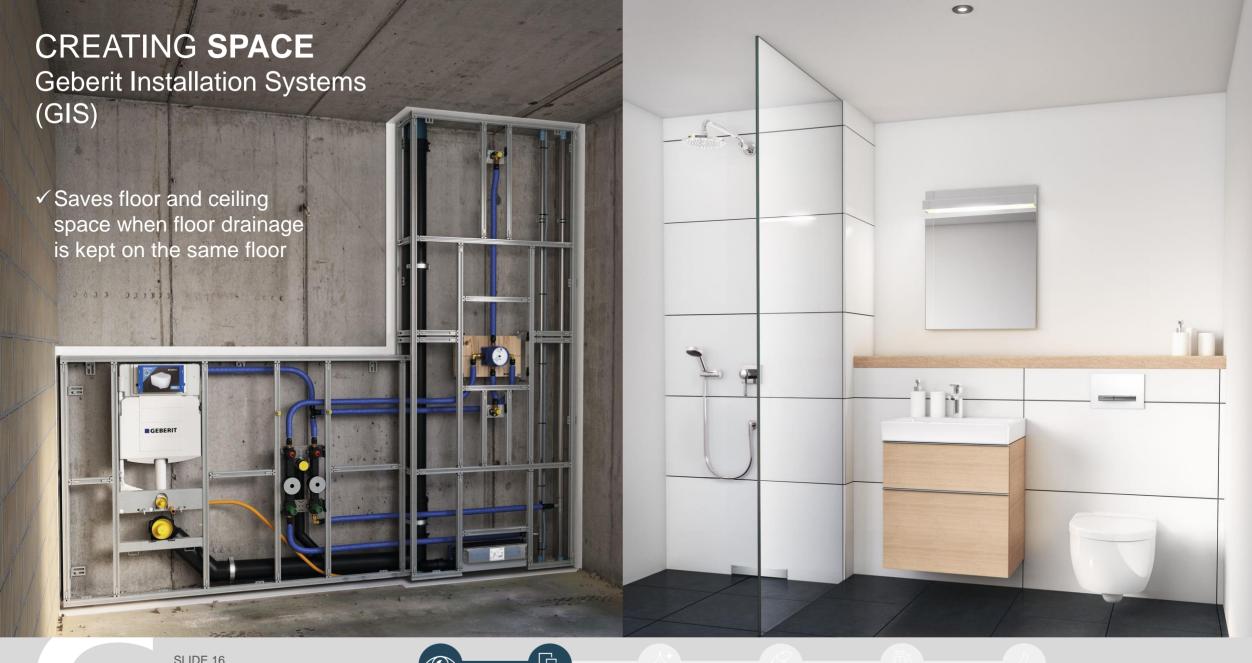
Architect: P&T Singapore

Consultant: Consultant: Siddhivinayak MEP Consultants, Pune











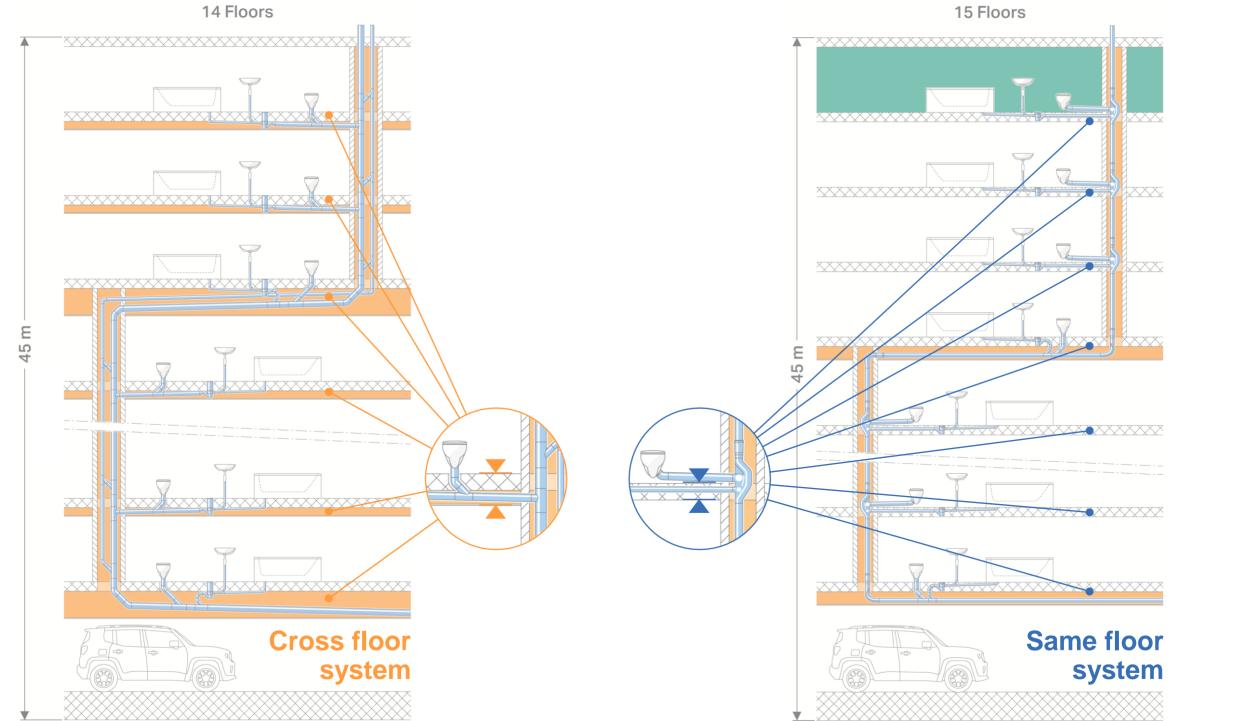






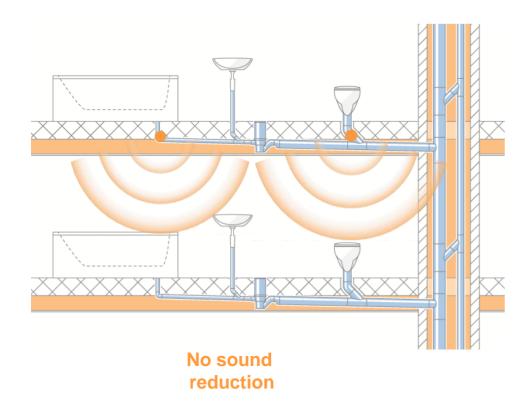




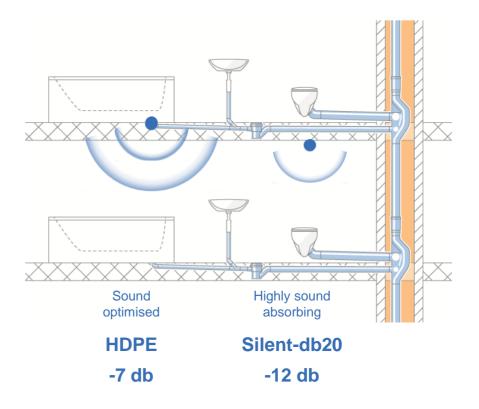


### SAME FLOOR DRAINAGE

# IMPROVED ACOUSTICS



**Conventional system** 

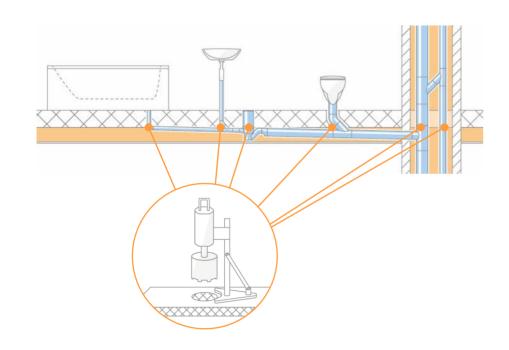


## Same floor system

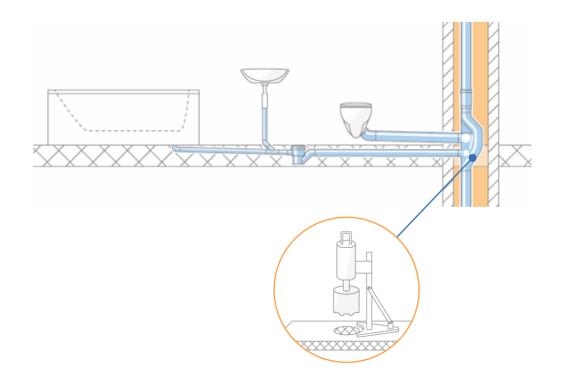


### SAME FLOOR DRAINAGE

# LESS CORE DRILLINGS/FIRE COLLARS



**Conventional system** 

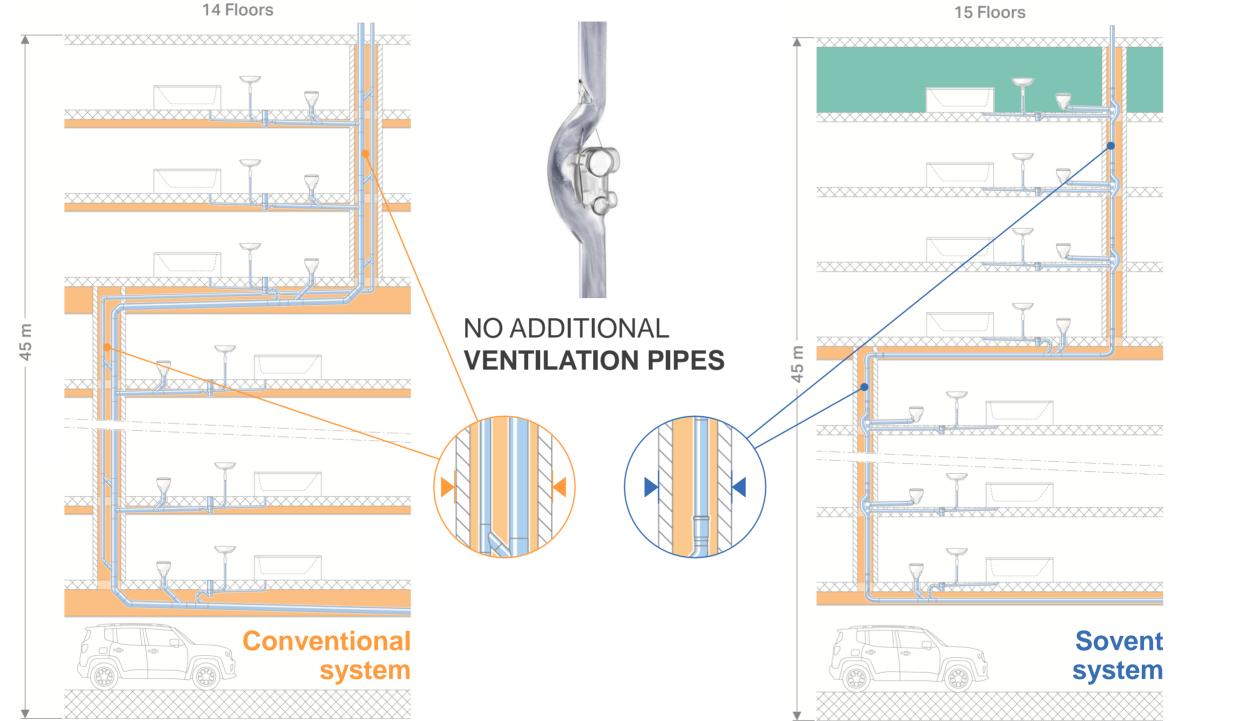


**Sovent system** 





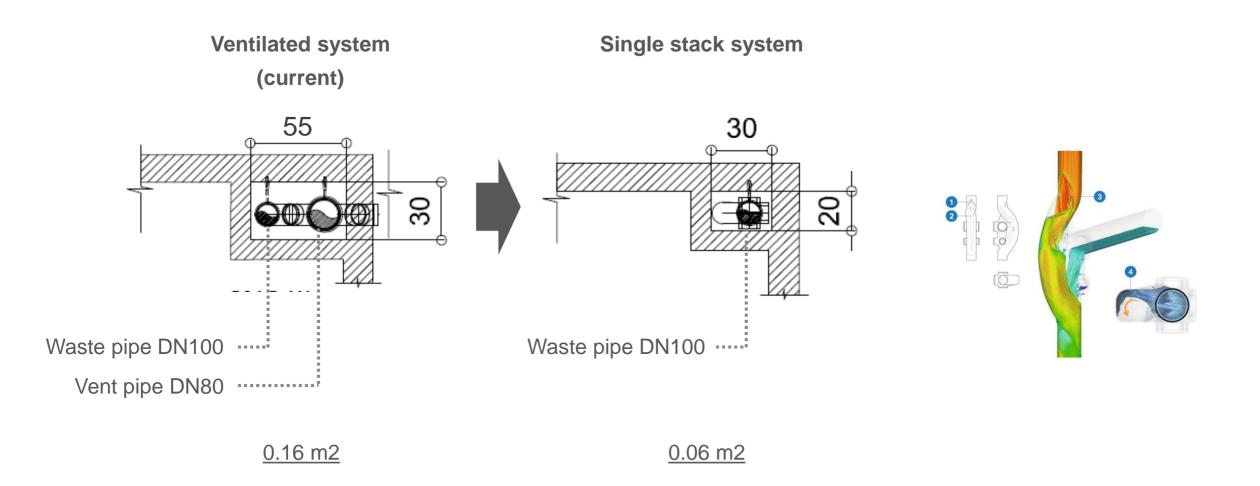








### SINGLE STACK SYSTEM - VENTILATED SYSTEM











SLIDE 25 COMPANY PRESENTATION 2020

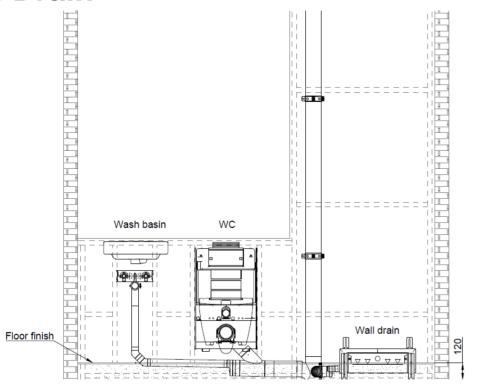


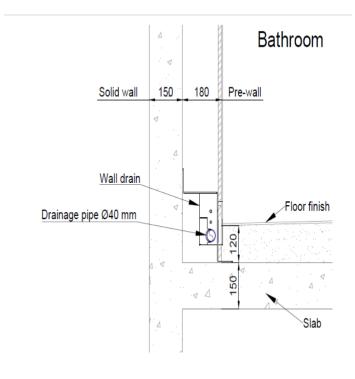
Installation





### **Wall Drain**



















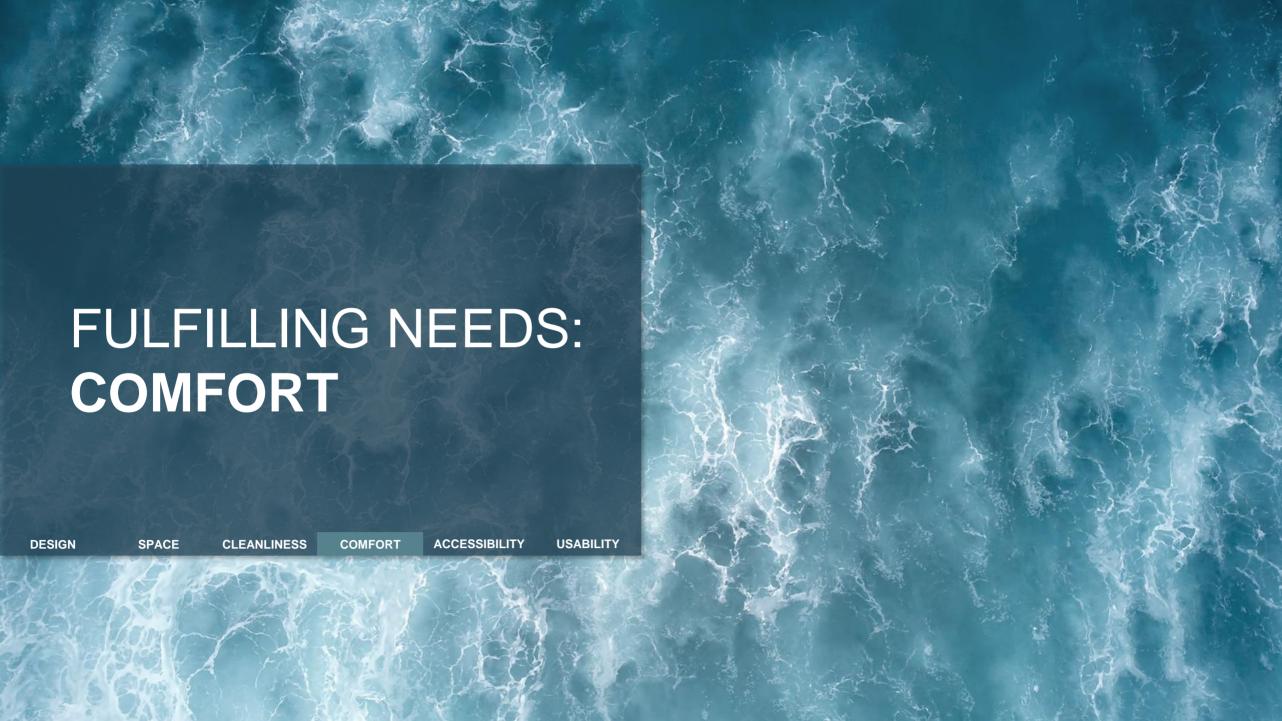




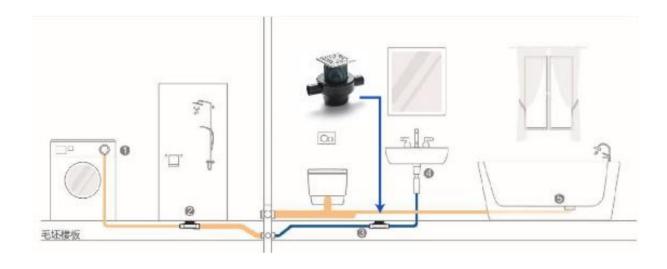


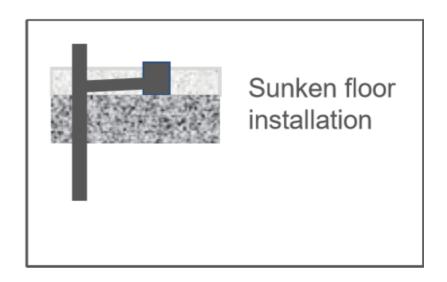


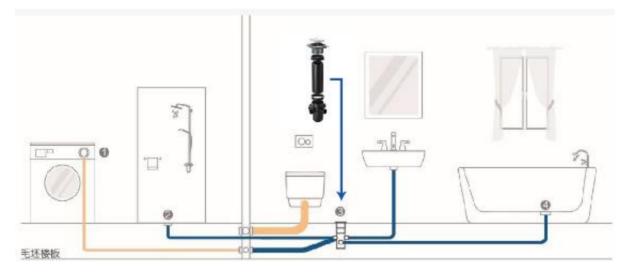


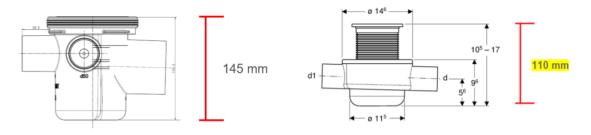


### **Cast in concrete**



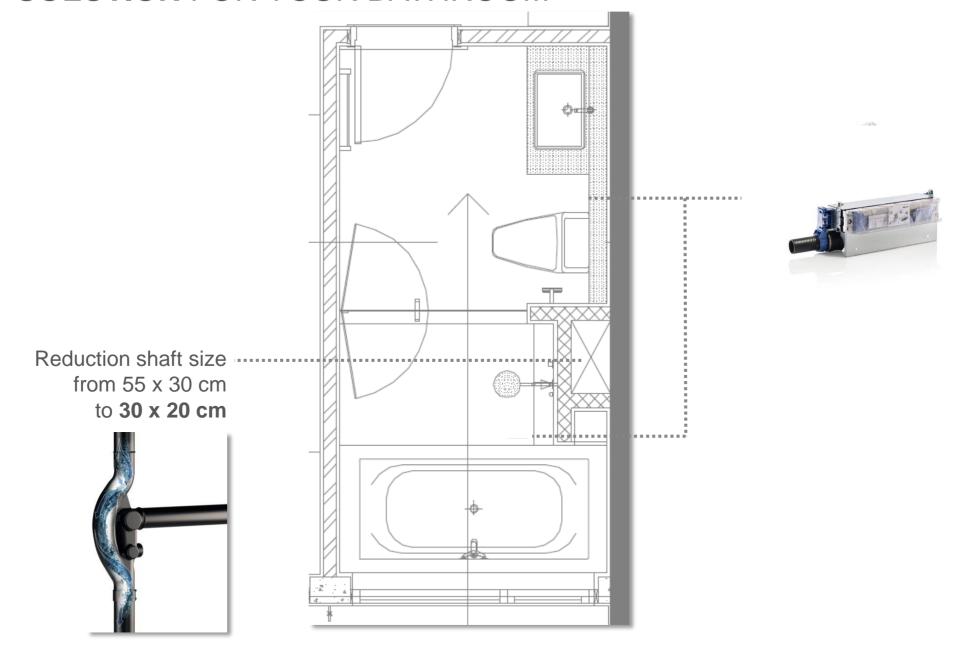








## **GEBERIT SOLUTION FOR YOUR BATHROOM**

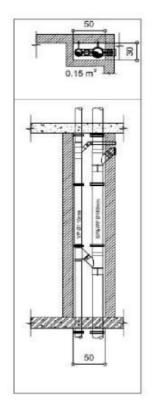


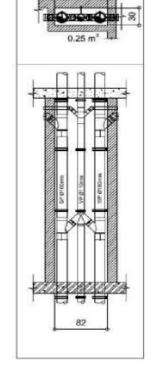
### **TECHNICAL**

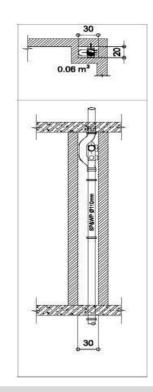
### **BACKGROUND**

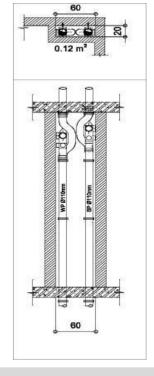












- 1. Cutting down the BOQ more than 35%
- 2. Reducing the diameter of the stacks from 160mm to 110mm
- 3. Pipe embedded in concrete (optimal space usage)
- 4. 50% space saving per stack
- 5. 200m2 space saving for the entire project

# TECHNICAL BACKGROUND

#### • PROJECT SUMMARY

Original plan 160 mm pipe with 110 mm parallel pipe- solved with one main stack 110 mm Geberit designed - 3D pre-fab ready plans incl. cutting lists

The main stack was pre-fabricated in the importer warehouse (time-saving)

Almost 40% of the costs could be reduced by using Geberit Sovent instead of the original conventional dual stack system

\*Stack dimension DN

Secondary vent DN

•Max. discharge DU

•Max. discharge rate I/s

K=0,5

Number of downpipes could be reduced from 71 to 36

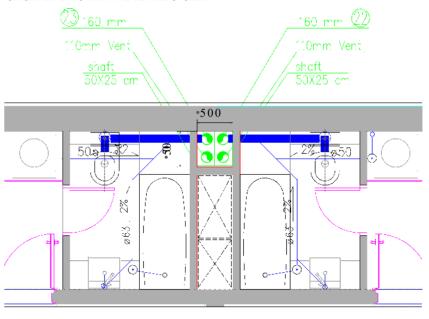


710	
•150	•100
•8 0	•N O
•615	*5 <b>7</b> 6
•12,4	•12,0

Geberit Sovent system

Vented system

#### ORIGINAL PLANS WITH THE VENTED SYSTEM



#### **\*FINAL PLANS WITH THE GEBERIT SOVENT SOLUTION**

