# UNDERSTANDING PLUMBING STUDIO MUNGE EDUCATIONAL SEMINAR



### TYPES OF PLUMBING



"The system of pipes, tanks ,fittings and other apparatus required for water supply, heating and sanitation in a building"





### PLUMBING SUPPLIERS



Most plumbing companies we work we can accomodate both contract and residential application. The main factors in determining use is code compliance and price project specifically





### HOW TO CHOOSE PLUMBING FIXTURES

### WHAT ARE MY NEEDS?

### -What kind of project am I working on?

(Home, Restaurant, Condo, Hotel, Restaurant, Outdoor)-this are the factors in understanding what type of plumbing is required (IF ANY eg. restuarant, we typically do not specify plumbing, maybe just for the public bathroom )

### -What is my budget?

Budget parameters will be outlined by your project lead from client discussion

### -What is my lead time?

When are the goods needed for your project? Project Leads will have this accounted for in

schedule

### -What kind of codes are in place?

Project Managers/Leads to discuss with client and AOR mechanical perimeters(if any) to ensure we are complying with necessary speci ication requirements

### -Know your hero pieces!

Sculptural Faucet? Apron Sink ? Spa experience? Beyond function, what are we accentuating through out plumbing ixtures?

# **P-Plumbing Fixtures**



SPECIEVING PLUMBING

## TYPES OF PLUMBING FIXTURES

<u>SINK</u>

### Undermount

### Overmount

Apron



### **FAUCETS**

**Counter Mounted** 

\*can include multipe holes

Sinks come in a variety of material spanning from porcelain, stainless steel and stone

### Wall mounted

Hot tip from Project \*can include multipe holes Managers: Please ensure you trip check clearance for sink surround, typically 4" clearance from edge of vanity!

**Free Standing** 





\*Ensure rough in requirements are review to account for requirements behind the wall for wallmounted accessories Do we have to build out more? how does that affect our space planning?



### TYPES OF PLUMBING FIXTURES

### **SHOWER**

Shower Heads, Wand and Control



\*shower coordination in relation to controls can be tricky, communicate and rely on suppliers to provide required information for us to accomodate requirements behind the wall

### **DRAINS**

P-Trap

Concealed Drain





\*we can provide aesthetic intend of these elements when they impact our design





### TYPES OF PLUMBING FIXTURES

### WALLMOUNTED FLUSH

### TYPICAL TOILET



\*cross section showing rough-in behind wall, need to ensure we are accounting for space required/ensure space exists to accomodate





### INTEPERETTING SPECIFICATION

### Name and Code

Compliance

Supplier that

regionally in

email if you

lare not sure

leg. using a

new brand.

working in a

Note: Ask

lit meets

needs

### **KOHLER**. Faucets

Purist® Floor-mount bath filler trim with handshower

### K-T97328-4

### Features

- Single lever handle allows for simultaneous on/off activation and temperature setting.
- KOHLER ceramic disc valves exceed industry longevity standards for a lifetime of durable performance.
- Includes Shift® handshower and 60" shower hose.
- Coordinates with Purist faucets, accessories, and showering components to complete your bathroom.
- 7 gpm (gallons per minute) at 45 PSI.
- 1.75 gpm (6.6 lpm) flow rate for handshower.

#### Material

- Premium metal construction for durability and reliability.
- KOHLER finishes resist corrosion and tarnishing.

#### Installation

- Floor-mount.
- Compatibility with bathtub varies by application.

#### **Required Products/Accessories**

K-97339 Multiproduct Mounting-block

#### **Recommended Products/Accessories** K-23723 Faucet cleaner

#### Included Components

Additional Components: K-10257 Multifunction Handshower 60" shower hose

### Colour Note Codes for Specification



### Codes/Standards

new region ASME A112 18.1/CSA B125.1 DOE - Energy Policy Act 1992 EPA WaterSense®

California Energy Commission (CEC)

### **KOHLER®** Faucet Lifetime Limited

See website for detailed warranty information.

### **Available Colors/Finishes**

Color tiles intended for reference only.

**Color Code Description** 

CP **Polished Chrome** 

- SN Vibrant® Polished Nickel
- BGD

- Vibrant® Brushed Moderne 2MB



#### Studio<sup>®</sup> S Right Height<sup>®</sup> **Elongated Low-Profile Toilet with Seat**

#### 2548A100

- · High performance and quiet PowerFlo<sup>™</sup> flushing system requires no electrical power and uses standard inlet water connection
- 12" (305 mm) rough-in Right Height elongated siphon
- action bowl with smooth-sided, concealed trapway
- Ultra-high efficiency toilet (UHET) 1.0 gpf/3.8 Lpf
- Meets EPA WaterSense® and MaF PREMIUM criteria
- Generous 8-1/4" x 9-1/4"
- (210 x235 mm) water surface area
- 16-1/2" (419 mm) rim height
- 2" (51 mm) fully glazed trapway
- · Color matched tank top actuator
- Includes slow-close seat and cover with easy lift-off feature Obtains best 1,000g MaP Score\*\*
- at 1.0 gpf · Lifetime warranty on chinaware,
- 5-year warranty on all mechanical
- parts, 1 year warranty on seat Design coordinates with Studio<sup>®</sup>S
- suite of fixtures and faucets

#### Nominal Dimensions:

31-1/8" x 16-3/8" x 18-1/2" (790 x 416 x 468 mm)

Fixture and toilet seat only, supply sold separately

K1-1

#### **Compliance Certifications -**

Meets or Exceeds the Following Specifications: ASME A112.19.2/CSA B45.1 For Vitreous China Fixtures US EPA WaterSense<sup>®</sup> Specification for UHETs

#### To Be Specified: Color: White □ Supply with Stop:

\*\* Maximum Performance (MaP) testing performed by IAPMO R&T Lab. MaP Report conducted by Gauley Associates Ltd. and Koeller and Company.

PART OF LIXIL



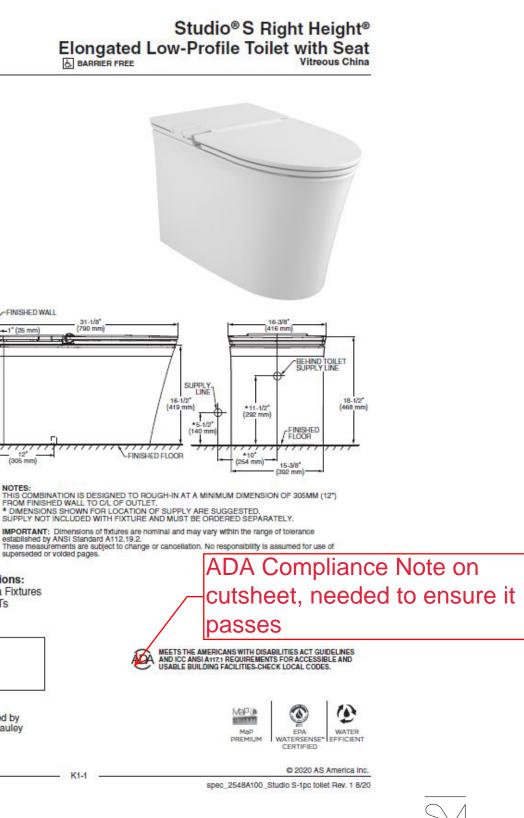
### 8

- - - Vibrant® Moderne Brushed
    - Gold
    - Vibrant® Brushed Nickel BN
    - Matte Black BL
      - Brass





FINISHED WALL



### INTEPERETTING SPECIFICATION

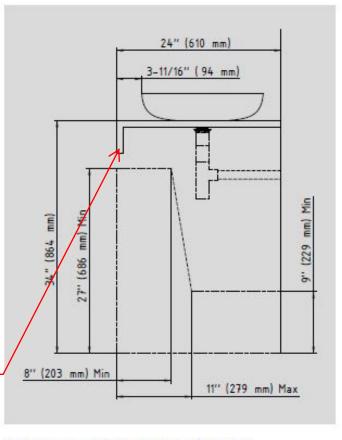
# KALDEWEI

# **RECOMMENDED ADA INSTALLATION FOR** MIENA WASHBASINS ROUND

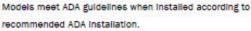
· premium products redefine the concept of sophisticated minimalism

- · versatile combination with bathtubs and shower surfaces designed for a "perfect match"
- · Iconic in bathroom design: Ideal for combination with elegant fittings
- · made of KALDEWEI steel enamelresilient and durable material matched perfectly to the design
- · designed by Anke Salomon

washbowl round: 3180-9 3181-9



ADA Specific cutsheet and diagram to ensure complianceimportant for amenity space in condo and hospitality use



# BLANCO

#### Sink Specifications

Color	SKU
Anthracite	402322
Café	402323
Metallic Gray	402325
White	402324
Cinder	402326
Truffle	402329
Concrete Gray	402330
Biscuit	402328
Coal Black	402525

#### Design and Planning Tips

Min cabinet size: 36 in

Bowl depth: 9-1/4" in

· Rim height: 10 in

What is included: Installation instructions Cabinet template Limited Lifetime Warranty

Apron front installation only Minimum cabinet size: 36" Cut-out Dimensions: custom installation. Use sink as template Left Sink Bowl Dimensions: Sink Bowl Length (left-to-right): 16.31" Sink Bowl Width (front-to-back): 15.31 Sink Bowl Depth: 9.25" Right Sink Bowl Dimensions: Sink Bowl Length (left-to-right): 12" Sink Bowl Width (front-to-back): 15.31" Sink Bowl Depth: 9.25" Apron Front Depth: 10" Low Divide Height: 5.5" Drain hole compatible with 3.5" strainers or waste flanges To protect from damage, this model must be shipped on a pallet.(Cannot be shipped UPS) Codes/Standards: CSA B45.8-18/IAPMO Z403-2018

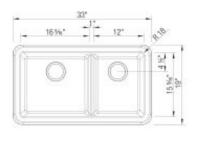
#### **Optional Accessories**

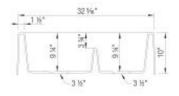
Sink Grid	237525
Floating Sink Grid	233530
Beech Cutting Board	235010
CapFlow Strainer Cover	517666

#### Warranty

RI ANCO offers a limited lifetime warranty on all sinks and faucets

### IKON 33 134 LOW DIVIDE SILGRANIT







Apron Sink specifications, required in order ensure accommodate for the millworknote in our specification to refer to cutsheet for this info and millworker verify dimension prior to production

as well as a one-year warranty on SPECIFYING PLUMBING



# SPECIFICATIONS-EXAMPLE 1

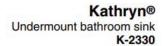
MNGE

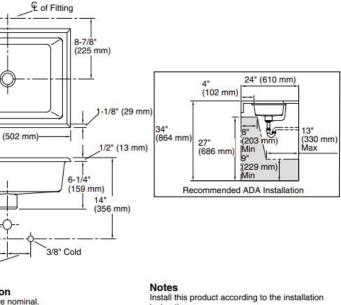
### NOBU TORONTO

		KOHLER	Kathryn® Undermount bathroom sink K-2330	KOHLER,
		<ul> <li>Features</li> <li>Rectangular basin.</li> <li>Overflow drain.</li> <li>No faucet holes; requires wall- or counter-mount faucet.</li> <li>Coordinates with other products in the Kathryn collection.</li> <li>Material</li> <li>Vitreous china.</li> <li>Installation</li> <li>Undermount.</li> <li>Recommended Products/Accessories</li> <li>K-23726 Drain treatment K-23725 Cast iron cleaner</li> <li>Included Components: Additional Components: 1193643 Basin clamps</li> </ul>	ADA CSA B651 OBC Codes/Standards ASME A112.19.2/CSA B45.1 ADA ICC/ANSI A117.1 CSA B651 OBC	15-5/8" (397 mm) 19-3/4" (502 m 12-7/8" (327 mm)
Issue Date:	Aug-20-21		KOHLER® One-Year Limited Warranty See website for detailed warranty information.	1-1/4" OD
Area:	800 Restaurant / Washroom		Available Colors/Finishes	Technical Information All product dimensions are nom
Supplier:	Kohler http://www.kohler.ca richard.good@kohler.com 735 Caledonia Rd B1, York, Ontario, M6B 4B3, Canada		Color tiles intended for reference only. Color Code Description 0 White 96 Biscuit NY Dune 95 Ice™ Grey	Bowl configuration: Single Installation: Undermo Bowl area (Only): Length: 1 Width: 13 Water de Drain hole: 1-3/4* (44 Template: 1006809-
Manufacturer:	Kohler		G9 Sandbar	
Item Description:	Washroom Sink		33 Mexican Sand™ K4 Cashmere	
Product Name:	Kathryn Undermount Sink		58   Thunder™ Grey     7   Black Black™	
Model:	K-2330-7		'	
Finish:	Black / Matte	NOTE!		
Dims/Size:	Refer to cutsheet			
Designer Notes:	<ul> <li>GC to provide coordinated shop drawings</li> <li>Suggested p-trap to be purchased together with sink. P-trap finish matte/brushed black</li> <li>Pop-up waste/drain to be in brushed matte black</li> </ul>	h to be		-Co
Instructions:	REFER TO STUDIO MUNGE INSTRUCTION BOOKLET FOR ALL DETAI PRODUCT AND MATERIALS	LS REGARDING		this mu
Product Docs:	p801_undermount_sink 04/28/2021			

P-801

**Cutsheets REQUIRED** 





le ermount gth: 17" (432 mm) ith: 13" (330 mm) ter depth: 3" (76 mm) 4" (44 mm) 6809-7, required, not included instructions.

NOTICE: Countertop manufacturer or cutter must use the current product template available at www.kohler.com, or by calling 1-800-4KOHLER. Kohler Co. is not responsible for cutout errors when the incorrect cutout template is used. ADA, OBC, CSA B651 compliant when

installed to the specific requirements of these regulations.

Colour specified on cutsheet, his would extend if there are nultiple codes

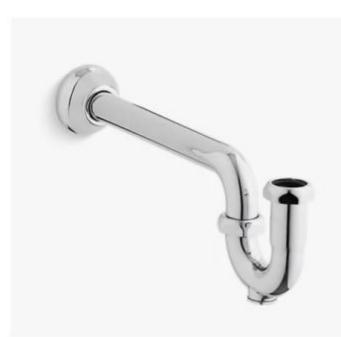


### SPECIFICATIONS-EXAMPLE 2

Jul-02-21

### PENDRY TAMPA

Issue Date:



~ . ~ \_

1.1

### P-103

#### Features

- Adjustable rotation on tube outlet.
- Slip-joint inlet.
- · Cleanout plug. • Flange.

#### Material

Cast brass construction for durability and reliability.

#### **Recommended Products/Accessories** K-23726 Drain treatment K-23723 Faucet cleaner



#### Codes/Standards ASME A112.18.2/CSA B125.2 All applicable US Federal and State material regulations

KOHLER® One-Year Limited Warranty See website for detailed warranty information.

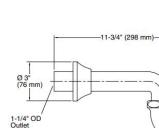
#### Available Colors/Finishes

Color tiles intended for reference only.

Color Code Description



Kohler Custom Colour: BN -Vibrant Brushed Nickel

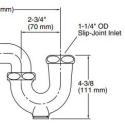


Issue Type:	Issued for 100% Design Development		Vibrant Brushed Nick
Area:	100 HOTEL_MUR		
Supplier:	Kohler http://www.kohler.ca richard.good@kohler.com 735 Caledonia Rd B1, York, Ontario, M6B 4B3, Canada	Another great note! Mechanical to ensure it works with their drain rough in/	KOHLER, Faucets
Manufacturer:	Kohler	/ with their drain rough-in/	
Item Description:	Lavatory P-Trap	/ accommodate rough in to	03*
Product Name:	Adjustable P-Trap with Tubing Outlet	accommodate	Ø 3 <sup>±</sup> (76 mm)
Model:	K-8998		1-1/4" OD Outlet
Finish:	BN - Vibrant Brushed Nickel		
Dims/Size:	Refer to Cutsheet		
Designer Notes:	- Mechanical engineer to advise and confirm P-tray size	with specified drain	
Instructions:	REFER TO STUDIO MUNGE INSTRUCTION BOOKLET FOR PRODUCT AND MATERIALS	ALL DETAILS REGARDING	<b>Technical Information</b> All product dimensions are nominal.
Website Link:	kohler		
Product Docs:	p103_kohler_adjustable_ptrap_cutsheet 07/01/2021		

SPECIFYING PLUMBING

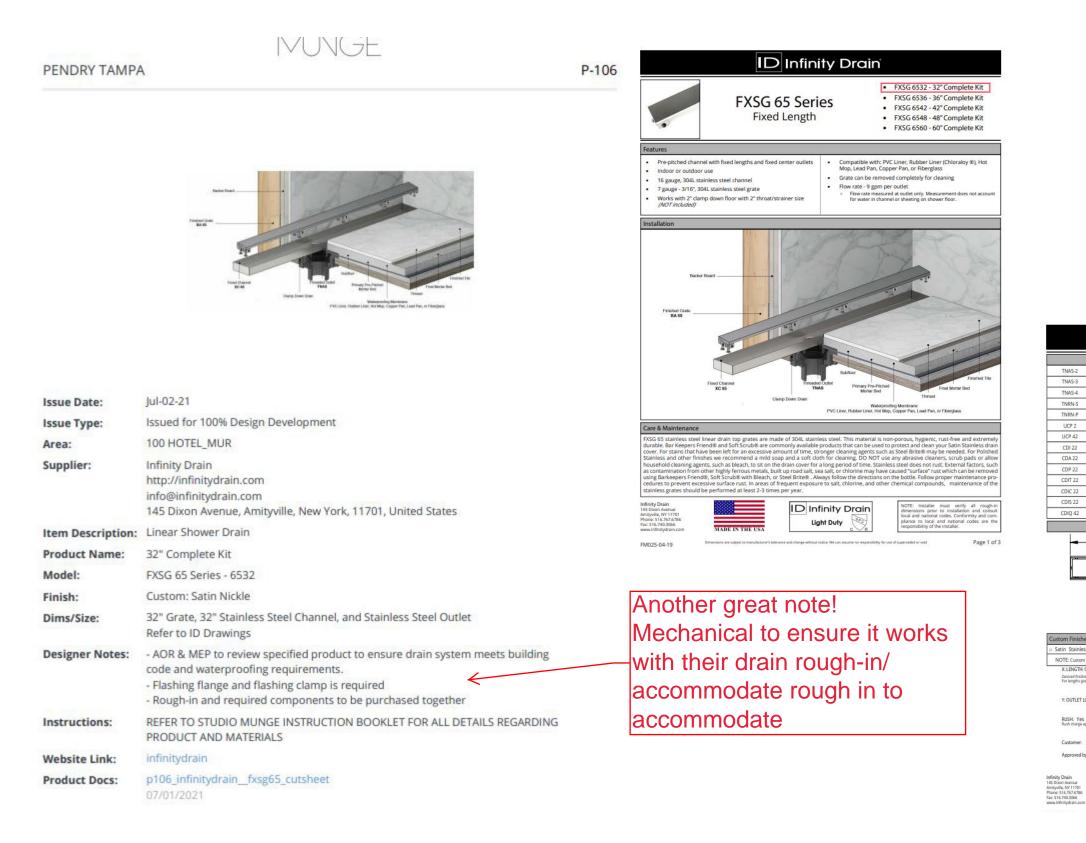






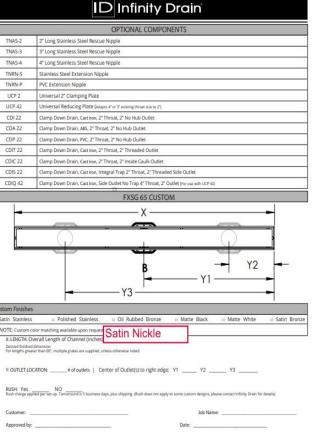
Notes Install this product according to the installation guide.

### SPECIFICATIONS-EXAMPLE 3 -WALLCOVERING



### SPECIFYING PLUMBING





ID Infinity Drain

### UNDERSTANDING COMPLIANCE AND WATER PRESSURE

### ADA/CSA

ADA/CSA compliance refers to the Americans/Canadian with Disabilities Act Standards for Accessible Design, which states that all electronic and information technology (like websites) must be accessible to people with disabilities

### PSI

### Pound per Square Inch-a unit of pressure used to describe the maximum recommended pressure to put on a pipe, fitting or valve

Faucets: ASME codes require supply fittings to function at a minimum of 20 psi to 125 psi maximum (this includes metering and self-closing faucets).

Toilet Fill Valves: Kohler tests fill valves from 20 psi minimum to 80 psi maximum.

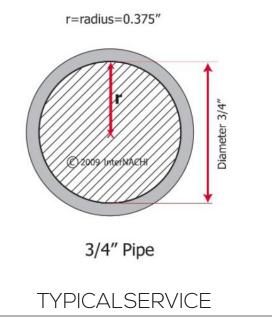
Gravity Toilet Tanks: ASME/CSA codes require a minimum of 20 psi to a maximum of 80 psi static.

Electro-Hydraulic Toilets (Power Lite): ASME/CSA codes require a minimum of 20 psi to a maximum of 80 psi static.

Pressure Assist: 1.4 gpf requires a minimum of 20 psi and a maximum of 80 psi. 1.1 gpf or less require a minimum of 35 psi to a maximum of 80 psi static.

\*Flushometers: Siphonic flush bowl style requires 25 gpm at 35 psi minimum and 80 psi maximum static. Blow out flush bowl style requires 25 gpm at 45 psi and 80 psi maximum static. Via Kohler Support

\*we as designers need to ensure compatability to ensure tangile responsible specifications in relation to our design



### NADIA! WHY DOES THIS MATTER?

It MATTERS because we have to bare in mind the PSI and service requirements to support our plumbing choices and experiences! ESPECIALLY for spa systems we specify!

By integrating an experience, there may need to be mechanical accommodations needed to support. This most likely results in an increase service!

Project Managers and Project Leads need the research and evidence in order to communicate these needs to our clients and corresponding consultants! Our suppliers are the best tools to procure this information!



SPECIEVING PLUMBING

To make this system work all together, we need to accommodate for a 1" service to ensure that everything can function @ the same time. If we do not change, cannot function @ the same time!

Client needs to be advise of this in order to account for it in mechanical scope!

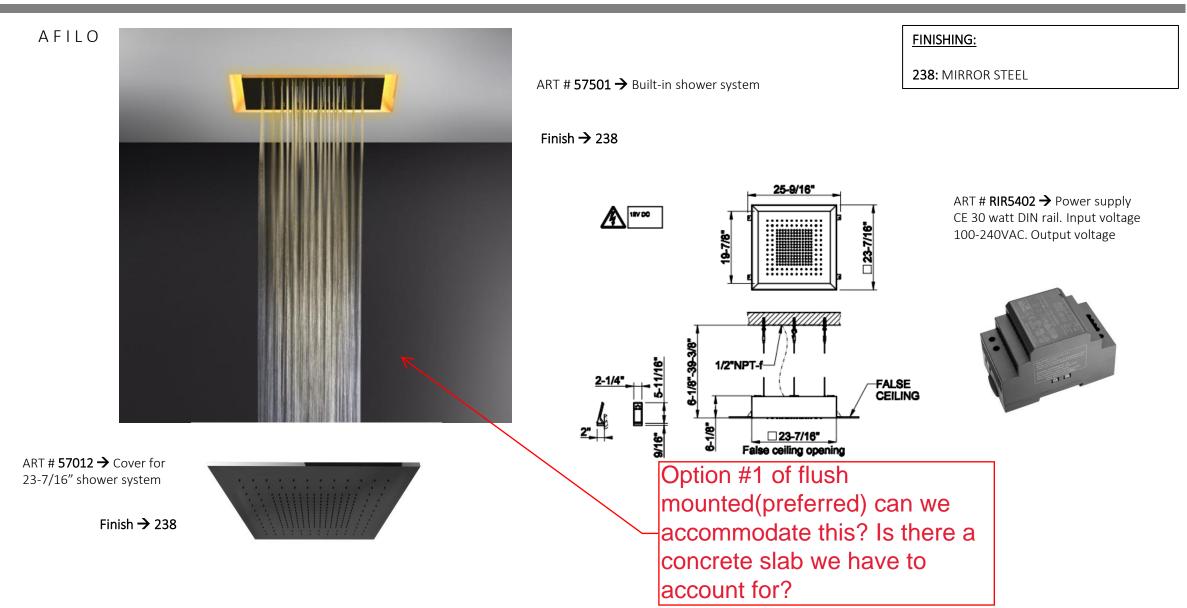
# YORKVILLE LUXURY CONDO

GESSI / STUDIO MUNGE

TRANSITIONAL

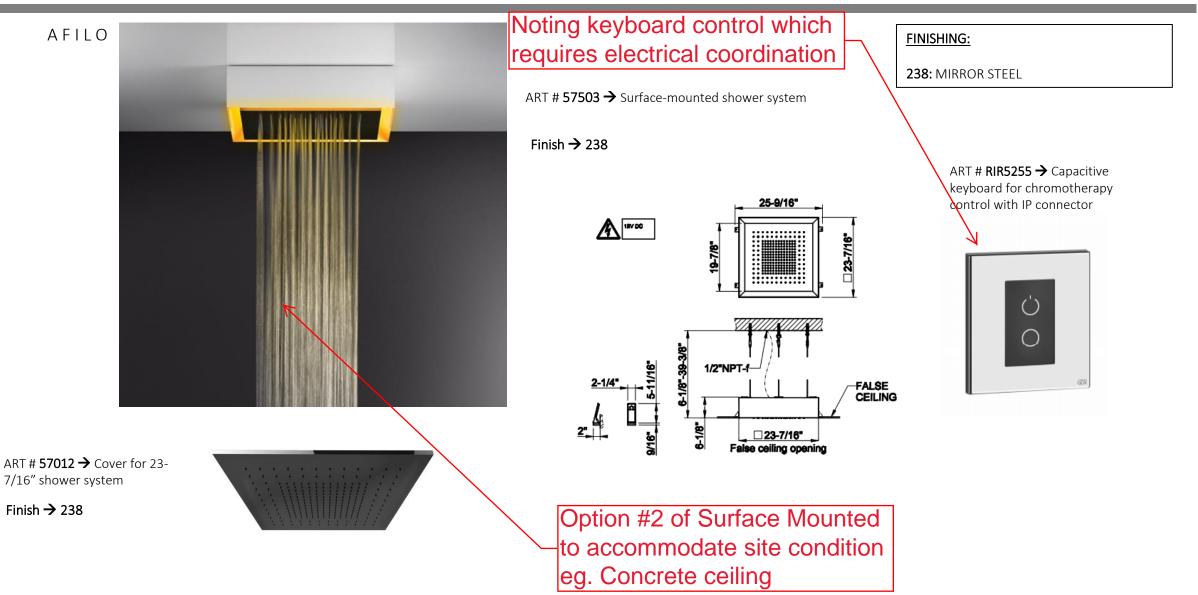
## SHOWER SYSTEMS





# SHOWER SYSTEMS

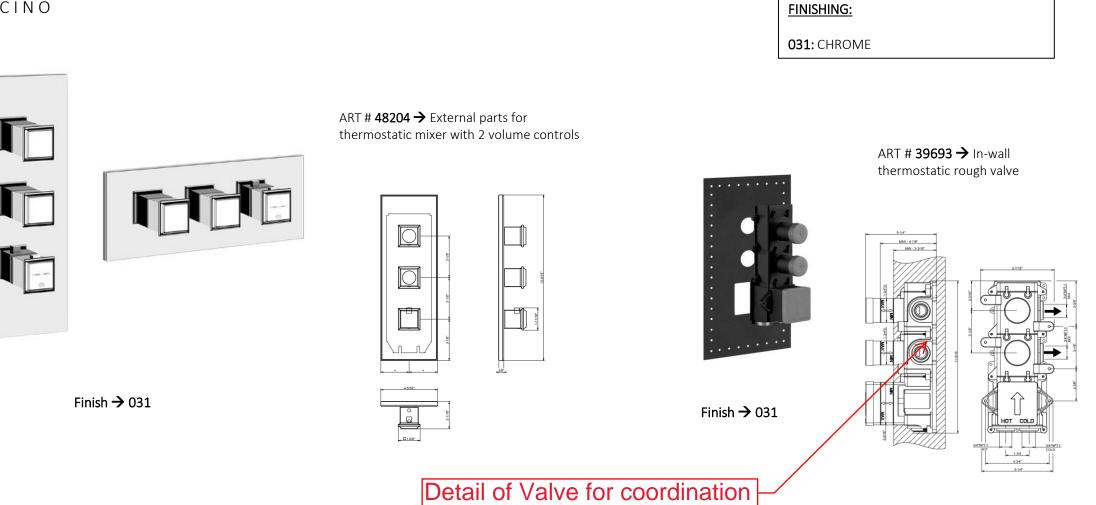




### BATH FAUCETS

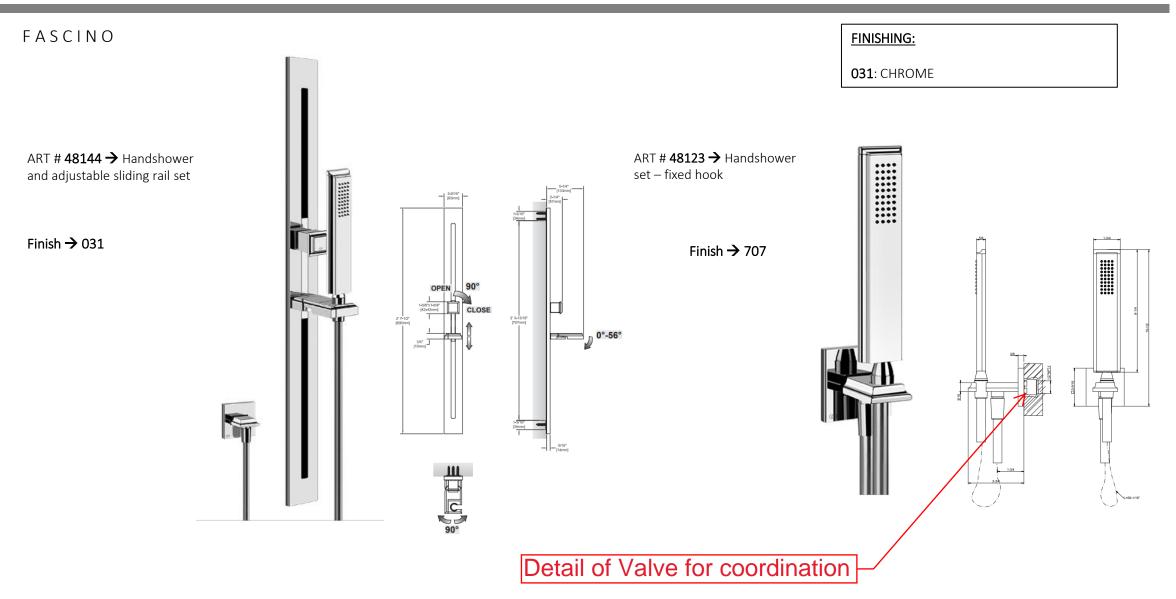


# GESSI



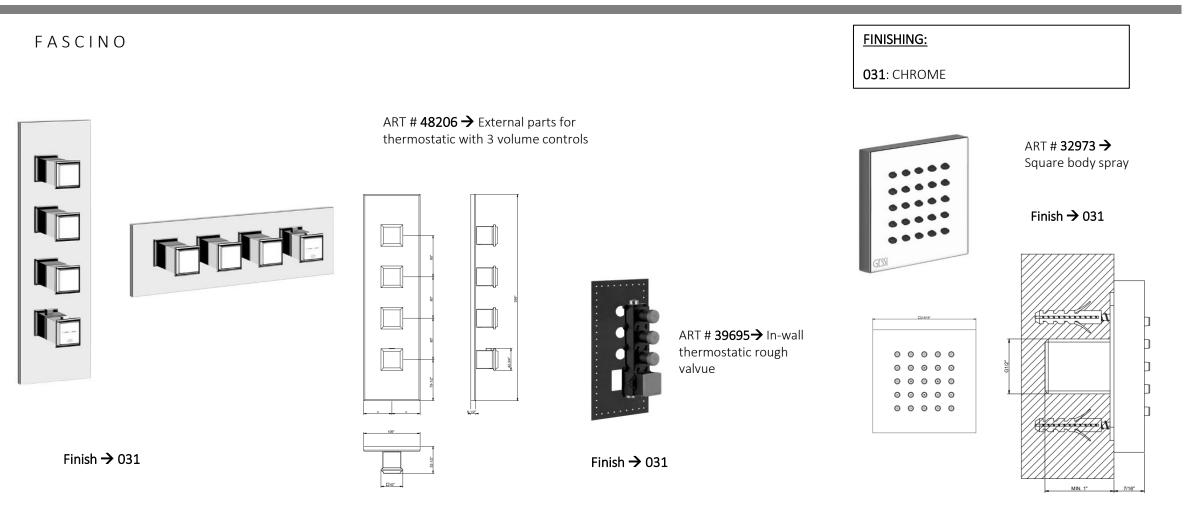
# HANDSHOWER SETS





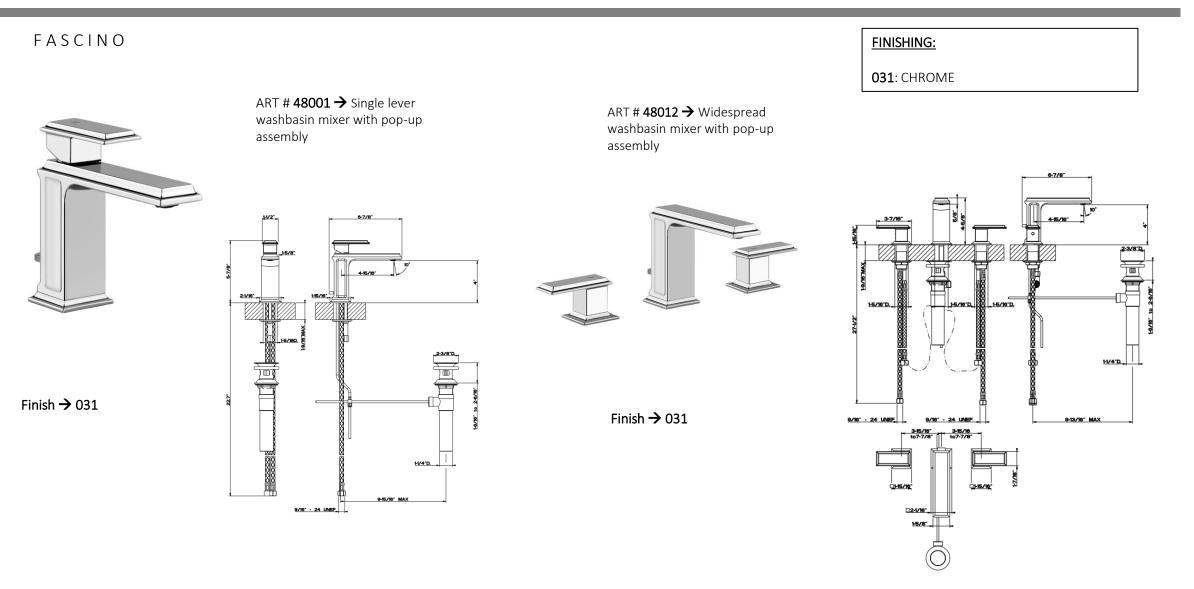
# BATH FAUCETS + BODY JETS





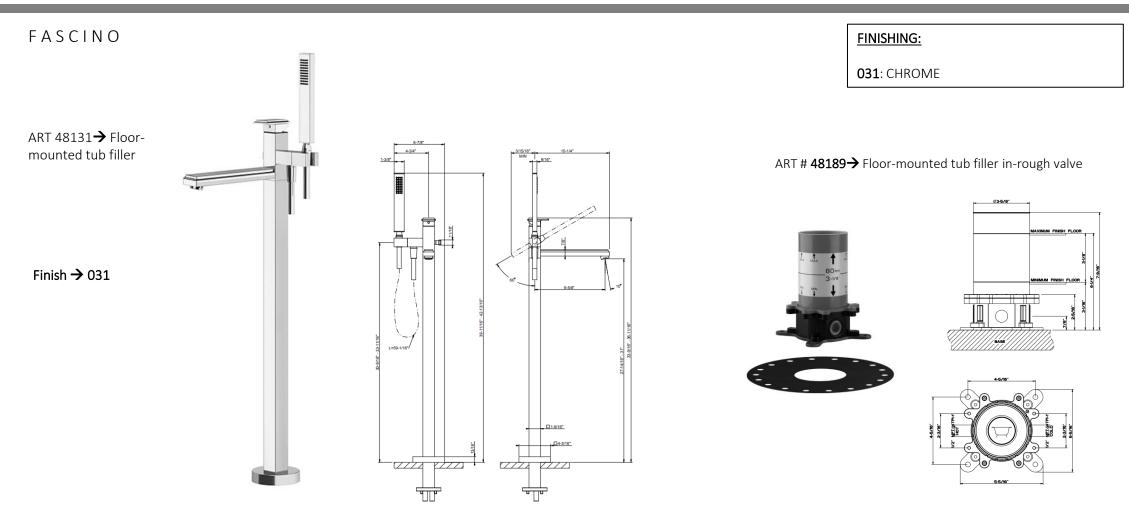
### BATH FAUCETS

# GESSI



# BATH FAUCETS









### IF YOU HAVE ANY QUESTION ABOUT THOSE SPECIFICATIONS, PLEASE CONNECT WITH OUR RESOURCE SPECIALIST.

THANK YOU 太感谢了 GRACIAS धन्यवाद OBRIGADO MERCI மி யி யி யி கா க りがと DANKE む小 해 GRAZIE

