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SECTION 33 42 41 – TRENCH GRATES

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DELETE ALL "SPECIFIER NOTES" WHEN EDITING THIS SECTION.

# GENERAL

## CONDITIONS AND REQUIREMENTS

### The General Conditions, Supplementary Conditions, and Division 01 – General Requirements apply.

## SECTION INCLUDES

## Section 33 42 41 – Gratings and Frames for Stormwater Drainage Inlets, trench grates of the following types:

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SPECIFIER NOTES: DELETE OPTIONS THAT ARE NOT REQUIRED FOR THIS PROJECT.

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### Slotted Trench Grates.

### High Performance Trench Grates.

### Ready-Cut Trench Grates.

### Pattern Trench Grates.

### Avant-Garde Trench Grates.

### Nature Trench Grates

### Modern Trench Grates.

## RELATED SECTIONS

### Section 03 30 00 – Cast-in-Place Concrete.

### Section 22 14 00 – Facility Storm Drainage.

### Section 22 14 26.19 – Facility Trench Drains.

### Section 31 56 26 – Bio-Polymer Trench Drain.

### Section 33 42 36 – Stormwater Trench Drains.

## REFERENCES

### Definitions

### Load Class: Selection of Appropriate Load Class According to BS EN 124:2015.

### Class A15: Strictly for pedestrians and cyclists. Recommended usage is for house drains, pool decks, courtyards, parks, walkways, and pedestrian areas.

### Class B125: For public pathways and car parks. Recommended usage is for slow-moving vehicles under 6614 pounds (3 tonnes) in wheel-load.

### Class C250: For curb-side grates in heavy vehicle parking areas. Recommended usage is for slow-moving vehicles under 12125 pounds (5.5 tonnes) in wheel-load.

### Class D400: For roads, hard-standing areas for fire access. Recommended usage is for slow-moving vehicles under 25353 pounds (11.5 tonnes) in wheel-load.

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SPECIFIER NOTES: RETAIN ONLY THOSE REFERENCES THAT ARE REQUIRED AFTER THE SECTION IS EDITED

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### Reference Standards

### ASTM International (ASTM):

#### ASTM B117: Standard Practice for Operating Salt Spray (Fog) Apparatus.

#### ASTM C1371: Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers.

#### ASTM D543: Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents,

#### ASTM D790: Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

#### ASTM E903: Standard Test Method for Solar Absorptance, Reflectance, and Transmittance of Materials Using Integrating Spheres.

#### ASTM E1980: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces,

#### The British Standards Institution (BSI):

#### BS EN 124:2015: Gully Tops and Manhole Tops for Vehicular and Pedestrian Areas.

#### BS EN 1433:2002: Drainage Channels for Vehicular and Pedestrian Areas.

#### International Organization for Standardization (ISO):

#### ISO 9001:2015: Quality Management System Certificate Number FS 73051.

#### ISO 14001:2015: Environmental Management System Certificate Number EMS 670579.

#### Singapore Standards (SS):

#### SS485:2011: Specifications for Slip Resistance Classification of Public Pedestrian Surface Materials.

#### SS245:1995: Specifications for Water Absorption.

## SUBMITTALS

### Product Data:

#### Submit manufacturer's shop drawings and maintenance instructions.

#### Manufacturer Information:

#### Provide overview literature describing the manufacturer’s overall scope of products.

#### Provide URL of the manufacturer’s website. The website must provide access to technical data, images, and general product information.

#### Provide manufacturers shop drawings.

#### Provide manufacturer’s guide specifications.

## QUALITY ASSURANCE

### Qualifications:

### Manufacturer: Minimum of 20 years experience in the manufacturing of reinforced stone architectural products.

### Sustainability Standards Certifications.

### LEED: USGBC (United States Green Building Council): MR Credit 4: Recycled Content under LEED® (Leadership in Energy and Environmental Design).

### Singapore Green Building Product Certification: Product Leader (SGBP 2019-2728) from Singapore Environmental Council.

### Singapore Green Label Certification: 022-016-0270 Eco-Friendly Building Material from Singapore Environmental Council.

### United States Environmental Protection Agency: US EPA 1311 Toxicity Characteristic Leaching Procedure (PLCP) – Specifications for testing of inorganic contaminants.

### Heavy Metals Testing Standards: Heavy Metals Test Analysis: Specifications for Testing of Hazardous Substances.

## DELIVERY, STORAGE AND HANDLING

### Delivery: Deliver materials to the installation site in manufacturer’s original packaging.

### Storage:

### Store in a clean, dry location until installation.

### If grates are stored for prolonged periods on-site before use or installation, protect the grates from sunlight and rain.

### Handling:

### Handle products in accordance with the manufacturer’s instructions.

### Use provided lifting hooks for lifting high-performance grates. Care must be taken when lifting and moving grates.

### Grates should not be dropped, thrown, or dragged.

## WARRANTY

* + 1. Manufacturer’s Warranty:
       1. Provide manufacturer’s standard limited warranty in effect at the date of purchase.
          1. Jonite® warrants that the Product is suitable for the purpose for which it was made for a period of one year from the date the commercial invoice and packing list issued by Jonite® is endorsed by the purchaser. For the avoidance of doubt, a purchaser means a person, firm, or corporation, jointly and severally if there is more than one, acquiring the Product from Jonite®.

# PRODUCTS

## MANUFACTURERS

### Specified Manufacturer: Jonite®. Allentown, Pennsylvania. 484-224-2972. Email: [info@Jonite®.com](mailto:info@jonite.com). Web: [www.Jonite®.com](http://www.jonite.com).

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SPECIFIER NOTES: DELETE ONE OF THE FOLLOWING TWO PARAGRAPHS.

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### Substitutions: Not Permitted.

### Requests for approved substitutions will be considered in accordance with provisions specified in Section 01 62 00 – Product Options.

## DESCRIPTION

### Jonite® Trench Grates: Trench grates composed of reinforced stone. These grates have a natural stone appearance that can be customized to match various design styles. These reinforced stone trench grates are available in a range of colors. They are reinforced to handle the loads required by pedestrian and vehicular traffic. Jonite®’s trench grates absorb less heat than ferrous gratings and are an electrical insulator.

### Sustainability: Trench grates composed of at least 30 percent recycled materials.

### Core Materials: 95 percent agglomeration of natural stone substrates and mineral oxides formed under a proprietary vacuum and compression process. Composed of a proprietary structural polymer hybrid system of a heterogeneous blend.

### Physical:

#### Water Absorption: 0.09 percent.

#### Slip Resistance Classification: Very low notational contribution of the floor surface to the risk of slipping when wet.

#### Chemical Resistance: Achieved.

#### Rust and Corrosion: Resistant.

#### Finish: Natural stone matte.

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SPECIFIER NOTES: DELETE COLORS NOT REQUIRED FOR THIS PROJECT,

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#### Colors: [Ivory white], [ Wacky white], [Rosy beige], [Desert beige], [Champagne yellow], [Terracotta red], [Teak brown], [Mocca brown], [Granite gray], [Ash gray], [Steel gray], [Slate gray], [Bamboo green], [Smoky green], [Charcoal black], [Ebony black], or [Color to be customized according to the sample submitted to the manufacturer].

### Structural and Mechanical Properties:

#### Tensile Strength: 8 to 25 Megapascal.

#### Compression Strength: 47.8 Megapascal.

#### Flexural Strength: 21.1 Megapascal.

#### Modulus of Elasticity: 20 to 40 Gigapascals.

#### Standard Density: 20 to 2400 Kilograms per cubic meter.

#### Elongation at Rupture: 3 percent.

#### Thermal Coefficient of Expansion: 106C-1.

### Reference Standards

#### Complies with ASTM B117-11: Salt resistance.

#### Complies with ASTM C1371-15: Determination of emittance.

#### Complies with ASTM D543:2014: Chemical resistance.

#### Complies with ASTM D790-92: Flexural properties.

#### Complies with ASTM E903-20: Solar absorptance, reflectance, and transmittance.

#### Complies with ASTM E1980: Solar Reflectance.

#### Complies with BS EN124.2015: Standard for Gully Tops and Manhole Tops.

#### Complies with BS EN1433:2002: Drainage Channels for Vehicular and Pedestrian Areas.

#### Complies with ISO 9001: 2015: Quality Management Systems.

#### Complies with ISO 14001:2015: Environmental Management Systems.

#### Complies with: SS245:1995 Appendix F - Water Absorption Test.

#### Complies with: SS485:2011: Slip Resistance.

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SPECIFIER NOTES: COLLECTIONS, MATERIALS, AND PRODUCTS ARE INDICATED IN THE FOLLOWING PARAGRAPHS. OPTIONS WITHIN ARE INDICATED BY SQUARE BRACKETS. DELETE PARAGRAPHS AND OPTIONS NOT REQUIRED FOR THIS PROJECT.

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## SLOTTED TRENCH GRATE MATERIALS

### Product Description: Slotted Trench Grates manufactured by Jonite®: Available in classic and clean-cut designs and comply with BS EN 124:2015 load standards. These slotted trench grates cover a wide range of openings and are suitable for various applications including scupper indoor and outdoor drains, residential drains, site drainage in parks and public areas, commercial, and industrial locations.

### Product Basis of Design: Slotted Trench Grate 31110: S1-125H25LD.

#### Load Class: A15.

#### Drain Width: 75 to 90 millimeters (3 to 3.5 inches).

#### Width: 125 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Slotted Trench Grate 31111: S1-125H25HD.

#### Load Class: B125.

#### Drain Width: 75 to 85 millimeters (3 to 3.3 inches).

#### Width: 125 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Slotted Trench Grate 31112: C1-210H25LD.

#### Load Class: A15.

#### Drain Width: 128 to 170 millimeters (5 to 6.7 inches).

#### Width: 210 millimeters (8.3 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Slotted Trench Grate 31113: C1-210H35HD.

#### Load Class: B125

#### Drain Width: 128 to 160 millimeters (5 to 6.3 inches).

#### Width: 210 millimeters (8.3 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Slotted Trench Grate 31114: C2-292H25LD.

#### Load Class: A15.

#### Drain Width: 210 to 242 millimeters (8.3 to 9.5 inches).

#### Width: 292 millimeters (11.5 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Slotted Trench Grate 31115: C2-292H35HD.

#### Load Class: B125

#### Drain Width: 210 to 232 millimeters (8.3 to 9.1 inches).

#### Width: 292 millimeters (11.5 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Slotted Trench Grate 31116: C3-355H25LD.

#### Load Class: A15.

#### Drain Width: 273 to 305 millimeters (10.7 to 12 inches).

#### Width: 355 millimeters (14 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Slotted Trench Grate 31117: C3-355H35HD.

#### Load Class: B125.

#### Drain Width: 273 to 295 millimeters (10.7 to 11.6 inches).

#### Width: 355 millimeters (14 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Slotted Trench Grate 31118: C4-435H35LD.

#### Load Class: A15

#### Drain Width: 345 to 385 millimeters (13.6 to 15.2 inches).

#### Width: 435 millimeters (17.2 inches).

#### Length: 420 millimeters (16.5 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Slotted Trench Grate 31119: C4-435H50HD.

#### Load Class: B125.

#### Drain Width: 345 to 375 millimeters (13.6 to 14.8 inches).

#### Width: 435 millimeters (17.2 inches).

#### Length: 420 millimeters (16.5 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: Slotted Trench Grate 31120: C5-500H35LD.

#### Load Class: A15.

#### Drain Width: 400 to 450 millimeters (15.7 to 17.7 inches).

#### Width: 500 millimeters (19.7 inches).

#### Length: 365 millimeters (14.4 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Slotted Trench Grate 31121: C5-500H50HD.

#### Load Class: B125.

#### Drain Width: 400 to 440 millimeters (15.7 to 17.3 inches).

#### Width: 500 millimeters (19.7 inches).

#### Length: 365 millimeters (14.4 inches).

#### Thickness: 50 millimeters (2 inches).

## HIGH PERFORMANCE TRENCH GRATE MATERIALS

### Product Description: High Performance Trench Grates manufactured by Jonite®: These trench grates are designed for heavy loading applications where vehicular traffic is expected. L-Trimmers™ are recommended to ensure a flat and level seating of gratings.

### Product Basis of Design: High Performance Trench Grate 32110: C1-210H35EHD.

#### Load Class: C250.

#### Drain Width: 128 to 150 millimeters (5 to 5.9 inches).

#### Width: 210 millimeters (8.3 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: High Performance Trench Grate 32111: C1-210H50CHD.

#### Load Class: D400.

#### Drain Width: 128 to 150 millimeters (5 to 5.9 inches).

#### Width: 210 millimeters (8.3 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: High Performance Trench Grate 32112: C2-292H35EHD.

#### Load Class: C250.

#### Drain Width: 210 to 230 millimeters (8.3 to 9.1 inches).

#### Width: 292 millimeters (11.5 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: High Performance Trench Grate 32113: C2-292H50CHD.

#### Load Class: D400.

#### Drain Width: 210 to 230 millimeters (8.3 to 9.1 inches).

#### Width: 292 millimeters (11.5 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: High Performance Trench Grate 32114: C3-355H50EHD.

#### Load Class: C250.

#### Drain Width: 273 to 285 millimeters (10.7 to 11.2 inches).

#### Width: 355 millimeters (14 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: High Performance Trench Grate 32115: C3-355H75CHD.

#### Load Class: D400.

#### Drain Width: 273 to 285 millimeters (10.7 to 11.2 inches).

#### Width: 355 millimeters (14 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 75 millimeters (3 inches).

### Product Basis of Design: High Performance Trench Grate 32116: C4-435H70EHD.

#### Load Class: C250.

#### Drain Width: 345 to 365 millimeters (13.6 to 14.4 inches).

#### Width: 435 millimeters (17.1 inches).

#### Length: 420 millimeters (16.5 inches).

#### Thickness: 70 millimeters (2.8 inches).

### Product Basis of Design: High Performance Trench Grate 32125: C4-435H75CHD.

#### Load Class: D400.

#### Drain Width: 345 to 365 millimeters (13.6 to 14.4 inches).

#### Width: 435 millimeters (17.1 inches).

#### Length: 420 millimeters (16.5 inches).

#### Thickness: 75 millimeters (3 inches).

### Product Basis of Design: High Performance Trench Grate 32117: D1-167H35EHD.

#### Load Class: C250.

#### Drain Width: 100 to 117 millimeters (3.9 to 4.6 inches).

#### Width: 167 millimeters (6.6 inches).

#### Length: 750 millimeters (29.5 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: High Performance Trench Grate 32118: D1-167H50CHD.

#### Load Class: D400.

#### Drain Width: 100 to 117 millimeters (3.9 to 4.6 inches).

#### Width: 167 millimeters (6.6 inches).

#### Length: 750 millimeters (29.5 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: High Performance Trench Grate 32121: D3-495H75EHD.

#### Load Class: C250.

#### Drain Width: 395 to 425 millimeters (15.6 to 16.7 inches).

#### Width: 495 millimeters (19.5 inches).

#### Length: 370 millimeters (14.6 inches).

#### Thickness: 75 millimeters (3 inches).

### Product Basis of Design: High Performance Trench Grate 32122: D3-495H75CHD.

#### Load Class: D400.

#### Drain Width: 395 to 425 millimeters (15.6 to 16.7 inches).

#### Width: 495 millimeters (19.5 inches).

#### Length: 370 millimeters (14.6 inches).

#### Thickness: 75 millimeters (3 inches).

### Product Basis of Design: High Performance Trench Grate 32123: BW1-260H50EHD.

#### Load Class: C250.

#### Drain Width: 200 millimeters (7.9 inches).

#### Width: 260 millimeters (10.2 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: High Performance Trench Grate 32124: BW2-400H50EHD.

#### Load Class: C250.

#### Drain Width: 330 millimeters (13 inches).

#### Width: 400 millimeters (15.7 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

## READY-CUT TRENCH GRATE MATERIALS

### Product Description: Ready-Cut Trench Grates manufactured by Jonite®: These trench grates are designed for replacement purposes without any form of construction on existing drains. The longitudinal side of the gradings has a wider edging so that they can be cut to attain required widths.

### Product Basis of Design: Ready-Cut Trench Grate 33110: CC1-275H25LD.

#### Load Class: A15.

#### Drain Width: 171 to 225 millimeters (6.7 to 8.9 inches).

#### Width: 275 millimeters (10.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Ready-Cut Trench Grate 33111: CC1-275H35HD.

#### Load Class: B125.

#### Drain Width: 161 to 215 millimeters (6.3 to 8.5 inches).

#### Width: 275 millimeters (10.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33112: CC1-275H35EHD.

#### Load Class: C250.

#### Drain Width: 161 to 205 millimeters (6.3 to 8.1 inches).

#### Width: 275 millimeters (10.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33113: CC2-330H25LD.

#### Load Class: A15.

#### Drain Width: 243 to 280 millimeters (9.6 to 11 inches).

#### Width: 330 millimeters (13 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Ready-Cut Trench Grate 33114: CC2-330H35HD.

#### Load Class: B125.

#### Drain Width: 233 to 270 millimeters (9.2 to 10.6 inches).

#### Width: 330 millimeters (13 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33115: CC2-330H50EHD.

#### Load Class: C250.

#### Drain Width: 223 to 260 millimeters (8.8 to 10.2 inches).

#### Width: 330 millimeters (13 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33116: CC3-410H35LD.

#### Load Class: A15.

#### Drain Width: 225 to 360 millimeters (8.9 to 14.2 inches).

#### Width: 410 millimeters (16.1 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33117: CC3-410H35HD.

#### Load Class: B125.

#### Drain Width: 296 to 350 millimeters (11.7 to 13.8 inches).

#### Width: 410 millimeters (16.1 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Ready-Cut Trench Grate 33118: CC3-410H50EHD.

#### Load Class: C250.

#### Drain Width: 286 to 340 millimeters (11.3 to 13.4 inches).

#### Width: 410 millimeters (16.1 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 50 millimeters (2 inches).

## PATTERN TRENCH GRATE MATERIALS

### Product Description: Pattern Trench Grates manufactured by Jonite®: These trench grates have created and imaginative designed for aesthetic flair while maintaining load strength. Available in 2 standard designs: ornate Keyholes and contemporary Pebbles.

### Product Basis of Design: Pattern Trench Grate U33115: MG-PEBBLES-78.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 52 to 54 millimeters (2 to 2.1 inches).

#### Width: 78 millimeters (3.1 inches).

#### Length: 610 millimeters (24 inches).

#### Thickness: 21 to 25 millimeters (0.8 to 1 inches).

### Product Basis of Design: Pattern Trench Grate 61115: BABY PEBBLES-86.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 56 to 62 millimeters (2.2 to 2.4 inches).

#### Width: 86 millimeters (3.4 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 23 millimeters (0.9 inches).

### Product Basis of Design: Pattern Trench Grate 61116: BABY PEBBLES-122.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 80 to 100 millimeters (3.1 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Pattern Trench Grate U32115: TG-PEBBLES-124.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Pattern Trench Grate 61111: BABY PEBBLES-150.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 100 to 125 millimeters (3.9 to 4.9 inches).

#### Width: 150 millimeters (5.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Pattern Trench Grate 61112: BABY PEBBLES-210.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 160 to 170 millimeters (6.3 to 6.7 inches).

#### Width: 210 millimeters (8.3 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Pattern Trench Grate 61113: BABY PEBBLES-300.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 245 to 260 millimeters (9.6 to 10.2 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 35 millimeters (1.4 inches).

### Product Basis of Design: Pattern Trench Grate 61117: KEYHOLES-122.

#### Load Class: A15.

#### Design: Keyholes.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Pattern Trench Grate U32112: TG-KEYHOLES-124.

#### Load Class: A15.

#### Design: Keyholes.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Pattern Trench Grate 61118: KEYHOLES-300.

#### Load Class: 6KN.

#### Design: Pebbles.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 28 millimeters (1.1 inches).

## AVANT-GARDE TRENCH GRATE MATERIALS

### Product Description: Avant-Garde Trench Grates manufactured by Jonite®: These trench grates have abstract and innovative designs reminiscent of rain motifs for a futuristic and non-traditional finish.

### Product Basis of Design: Avant-Garde Trench Grate 64115: CHISELLED-122.

#### Load Class: 6KN.

#### Design: Chiselled.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Avant-Garde Trench Grate U32110: TG-CHISELLED-124.

#### Load Class: 6KN.

#### Design: Chiselled.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Avant-Garde Trench Grate 64116: CHISELLED-300.

#### Load Class: 6KN.

#### Design: Chiselled.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 28 millimeters (1.1 inches).

### Product Basis of Design: Avant-Garde Trench Grate 64114: RAIN-SWING-300.

#### Load Class: A15.

#### Design: Rain-Swing.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

## NATURE TRENCH GRATE MATERIALS

### Product Description: Nature Trench Grates manufactured by Jonite®: These trench grates are designed with floral and leaf-inspired designs for a stylish tropical resort touch, that allows the gratings to blend in with different landscapes and architecture.

### Product Basis of Design: Nature Trench Grate 62111: LEAVES-310.

#### Load Class: 5KN.

#### Design: Leaves.

#### Drain Width: 210 to 260 millimeters (8.3 to 10.2 inches).

#### Width: 310 millimeters (12.2 inches).

#### Length: 335 millimeters (13.2inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Nature Trench Grate 62112: FOREST-300.

#### Load Class: 5KN.

#### Design: Forest.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Nature Trench Grate 62113: PALM-122.

#### Load Class: A15.

#### Design: Palm.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Nature Trench Grate U32114: TG-PALM-124.

#### Load Class: A15.

#### Design: Palm.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Nature Trench Grate 62114: PALM-300.

#### Load Class: 6KN.

#### Design: Palm.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 28 millimeters (1.1 inches).

## MODERN TRENCH GRATE MATERIALS

### Product Description: Modern Trench Grates manufactured by Jonite®: Minimalist and clean architectural lines feature strongly in this collection, making the best match for modern styles. Available in 3 types of designs: Cross-Stitch, Interlace, and Square Slots.

### Product Basis of Design: Modern Trench Grate 63115: CROSS-STITCH-86.

#### Load Class: A15.

#### Design: Cross-Stitch.

#### Drain Width: 60 millimeters (2.4 inches).

#### Width: 86 millimeters (3.4 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 23 millimeters (0.9 inches).

### Product Basis of Design: Modern Trench Grate 63116: CROSS-STITCH-122.

#### Load Class: A15.

#### Design: Cross-Stitch.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Modern Trench Grate U32111: TG-CROSS-STITCH-124.

#### Load Class: A15.

#### Design: Cross-Stitch.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Modern Trench Grate 63110: CROSS-STITCH-300.

#### Load Class: 6KN.

#### Design: Cross-Stitch.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Modern Trench Grate U33112: MG-INTERLACE-78.

#### Load Class: A15.

#### Design: Interlace.

#### Drain Width: 52 to 54 millimeters (2 to 2.1 inches).

#### Width: 78 millimeters (3.1 inches).

#### Length: 610 millimeters (24 inches).

#### Thickness: 21 to 25 millimeters (0.8 to 1 inches).

### Product Basis of Design: Modern Trench Grate 63117: INTERLACE-122.

#### Load Class: A15.

#### Design: Interlace.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Modern Trench Grate U32113: TG-INTERLACE-124.

#### Load Class: A15.

#### Design: Interlace.

#### Drain Width: 92 to 100 millimeters (3.6 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 22 millimeters (0.9 inches).

### Product Basis of Design: Modern Trench Grate 63118: INTERLACE-300.

#### Load Class: 6KN.

#### Design: Interlace.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

### Product Basis of Design: Modern Trench Grate 63119: SQUARE-SLOTS-122.

#### Load Class: A15.

#### Design: Square Slots.

#### Drain Width: 80 millimeters (3.1 inches).

#### Width: 122 millimeters (4.8 inches).

#### Length: 498 millimeters (19.6 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Modern Trench Grate U32116: TG-SQUARE-SLOTS-124LD.

#### Load Class: A15.

#### Design: Square Slots.

#### Drain Width: 80 to 100 millimeters (3.1 to 3.9 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 19 millimeters (0.7 inches).

### Product Basis of Design: Modern Trench Grate U32117: TG-SQUARE-SLOTS-124HD.

#### Load Class: B125.

#### Design: Square Slots.

#### Drain Width: 72 to 82 millimeters (2.8 to 3.2 inches).

#### Width: 124 millimeters (4.9 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 19 to 35 millimeters (0.7 to 1.4 inches).

### Product Basis of Design: Modern Trench Grate 63120: SQUARE-SLOTS-300.

#### Load Class: A15.

#### Design: Square Slots.

#### Drain Width: 250 millimeters (9.8 inches).

#### Width: 300 millimeters (11.8 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thickness: 25 millimeters (1 inch).

## ACCESSORIES

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SPECIFIER NOTES: OPTIONAL ACCESSORIES ARE INDICATED IN THE FOLLOWING PARAGRAPHS. DELETE PARAGRAPHS NOT REQUIRED FOR THIS PROJECT.

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### L-Trimmers™ manufactured by Jonite®: Supporting L-Trimmers™ of materials and colors that match trench grate selection.

#### L-Trimmer 25LD – 34121C:

#### Width: 60 millimeters (2.4 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 35 millimeters (1.4 inches).

#### L-Trimmer-35HD/EHD – 34122C:

#### Width: 60 millimeters (2.4 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 50 millimeters (2 inches).

#### L-Trimmer-50EHD/CHD – 34123C:

#### Width: 65 millimeters (2.6 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 65 millimeters (2.6 inches).

#### L-Trimmer-70EHD/CHD – 34124C:

#### Width: 65 millimeters (2.6 inches).

#### Length: 420 millimeters (16.5 inches).

#### Thick: 85 millimeters (3.3 inches).

#### L-Trimmer-75EHD/CHD – 34125C:

#### Width: 65 millimeters (2.6 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 90 millimeters (3.6 inches).

#### L-Slim-Trimmer-25LD/HD – 34126C:

#### Width: 40 millimeters (1.6 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 35 millimeters (1.4 inches).

### 90 Degree Corner Grates manufactured by Jonite®: 90 Degree corner grates of materials and colors that match trench grate selection.

#### Slotted Trench Grate 34119C: 90 Degree S1-H25LD.

#### Load Class: A15.

#### Suitable For Use with: Standard S1-125H25LD.

#### Slotted Trench Grate 34120C: 90 Degree S1-H25HD.

#### Load Class: B125.

#### Suitable For Use with: Standard S1-125H25HD.

#### Slotted Trench Grate 34110C: 90 Degree C1-H25LD.

#### Load Class: A15.

#### Suitable For Use with: Standard C1-210H25LD.

#### Slotted Trench Grate 34111C: 90 Degree C1-H35HD.

#### Load Class: B125.

#### Suitable For Use with: Standard C1-210H35HD.

#### Slotted Trench Grate 34113C: 90 Degree C2-H25LD.

#### Load Class: A15.

#### Suitable For Use with: Standard C2-292H25LD.

#### Slotted Trench Grate 34114C: 90 Degree C2-H35HD.

#### Load Class: B125.

#### Suitable For Use with: Standard C2-292H35HD.

#### Slotted Trench Grate 34116C: 90 Degree C3-H25LD.

#### Load Class: A15.

#### Suitable For Use with: Standard C3-355H25LD.

#### Slotted Trench Grate 34117C: 90 Degree C2-H35HD.

#### Load Class: B125.

#### Suitable For Use with: Standard C3-355H35HD.

#### Slotted Trench Grate 34133C: 90 Degree C4-H35LD.

#### Load Class: A15.

#### Suitable For Use with: Standard C4-435H35LD.

#### Slotted Trench Grate 34134C: 90 Degree C4-H50HD.

#### Load Class: B125.

#### Suitable For Use with: Standard C4-435H50HD.

#### Slotted Trench Grate 34135C: 90 Degree C5-H35LD.

#### Load Class: A15.

#### Suitable For Use with: Standard C5-500H35LD.

#### Slotted Trench Grate 34136C: 90 Degree C5-H50HD.

#### Load Class: B125.

#### Suitable For Use with: Standard C5-500H50HD.

#### High Performance Trench Grate 34112C: 90 Degree C1-H35EHD.

#### Load Class: C250.

#### Suitable For Use with: Standard C1-210H35EHD.

#### High Performance Trench Grate 34115C: 90 Degree C2-H35EHD.

#### Load Class: C250.

#### Suitable For Use with: Standard C2-292H35EHD.

#### High Performance Trench Grate 34118C: 90 Degree C3-H50EHD.

#### Load Class: C250.

#### Suitable For Use with: Standard C3-355H50EHD.

### Tile Strips manufactured by Jonite®:

#### Tile Strip TS-50LD – 34127C.

#### Width: 50 millimeters (2 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 10 millimeters (0.4 inches).

#### Tile Strip TS-50HD/EHD – 34128C.

#### Width: 50 millimeters (2 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 15 millimeters (0.6 inches).

### Grate Tiles™ manufactured by Jonite®: Irregular connections in drains are to be covered by Grate Tiles™.

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SPECIFICATION CONSTRUCTION NOTES: LIGHT DUTY MODELS WILL BE CUT ON SITE BY INSTALLER. HEAVY DUTY MODELS WILL BE FACTORY CUT TO TEMPLATES ATTAINED FROM THE SITE BY THE INSTALLER.

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#### Grate-Tile GT-400H25LD – 34129C.

#### Width: 400 millimeters (15.7 inches).

#### Length: 400 millimeters (15.7 inches).

#### Thick: 25 millimeters (1 inch).

#### Grate-Tile GT-400H35HD – 34131C.

#### Width: 400 millimeters (15.7 inches).

#### Length: 400 millimeters (15.7 inches).

#### Thick: 35 millimeters (1.4 inches).

#### Grate-Tile GT-500H25LD – 34130C.

#### Width: 500 millimeters (19.7 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 25 millimeters (1 inch).

#### Grate-Tile GT-400H35HD – 34132C.

#### Width: 500 millimeters (19.7 inches).

#### Length: 500 millimeters (19.7 inches).

#### Thick: 35 millimeters (1.4 inches).

### Maintenance Accessories:

#### Repair Kit: Repair Kit is a proprietary epoxy putty filler for repair of gaps, cracks, and large chips.

#### Colors: [Standard color: \_\_\_\_] or [Custom color].

#### Perform repairs on gaps, cracks, and large chips in accordance with manufacturer’s instructions.

#### SealFix™ 103: A two-part epoxy mortar formulated for fixing Jonite® components such as L-Trimmers™. It has high strength bonding, is impermeable, chemical-resistant, and suitable for dry fixing.

#### Perform repairs on Jonite® components in accordance with manufacturer’s instructions.

#### ArmorFix™ 108: All Jonite® products are impregnated with a coat of ArmorFix™ for protection, strength, and wear resistance.

#### Apply ArmorFix™ 108 in accordance with manufacturer’s instructions.

#### Kleansol™ 511: A proprietary algae and stain removal solution for Jonite® products.

#### Use Kleansol™ 511 in accordance with manufacturer’s instructions.

#### Lifting Hooks: Recommended for lifting heavy-duty grates.

# EXECUTION

## EXAMINATION

### Examine Project conditions and completed Work and verify that the site is adequately prepared.

### Immediately correct all deficiencies and conditions which would cause improper execution of Work specified in this Section and subsequent Work.

### Proceeding with Work specified in this Section shall be interpreted to mean that all conditions were determined to be acceptable prior to start of Work.

## PREPARATION

### Clean the surface thoroughly before installation.

### Ensure the area is free of dirt and debris.

### Prepare the surface in accordance with manufacturer’s instructions.

## INSTALLATION

### Ensure the installation site is cleaned and prepared.

### Install in accordance with the manufacturer’s instructions and recommendations.

### Install grates after danger of damage from construction traffic is passed.

## CLEANING

### Clean promptly after installation in accordance with the manufacturer’s instructions.

### Clear dust and debris frequently.

### Dislodge dirt and grime with a high-pressure water jet spray.

### Use soap-less cleaners, mild soap, or neutral pH detergent, clean water, and a non-metal scrub brush. Remove stains with Kleansol™ 511. Apply Armorfix™ 108 after the grate is dry.

### Do not use harsh cleaning materials like an acid wash as this can damage the grates.

### Repair or replace the product if damaged.

### PROTECTION

### Protect grates in accordance with the manufacturer’s instructions.

### Perform regular visual checks of grates. Ensure grates are not structurally compromised and there are no visible cracks.

### Do not expose grates to:

### Heavy cleaning chemicals.

### Cement.

### Do not use grates as structural elements.

### Do not permit grates to contact construction debris, masonry, gravel, or organic material.

### Do not wash flooring with chemicals and permit waste to flow through grates.

### Cleaning Adjacent Floors:

### Remove gratings systematically to prevent confusion by stacking on raised timber or bricks.

### Place grates back only when floors are clean and dry.

### Ensure the drain shoulders and surrounding where grates will be put back into place are cleaned thoroughly.

END OF SECTION