SECTION 32 94 43

TREE GRATES

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\*\* NOTE TO SPECIFIER \*\* Neenah Foundry Co. Iron castings, tree grates.
This section is based on the products of Neenah Foundry Co. located at:
2121 Brooks Avenue, P. O. Box 729
Neenah, WI 54957
Phone: 800-558-5075
Fax: 920-729-3661
Email: \_\_\_\_\_\_
Web: http://www.nfco.com.
[ HYPERLINK "http://www.arcat.com/arcatcos/cos34/arc34427.html" Click Here] for additional information.
Located in Neenah, Wisconsin, Neenah Foundry is a domestic manufacturer of municipal castings including manhole frames, lids and grates, access hatch frame and covers, trench castings, decorative tree grates, airport rated castings, bollards, and storm water management castings to name a few. Since 1872, Neenah Foundry has been a consistent leader in producing durable castings that are used across the country.
Neenah Foundry operates with a strict adherence to process standards, which assures consistent quality. At Neenah, we closely monitor each step of the operation during the manufacturing process. The quality you receive in Neenah castings is the result of painstaking control and attention to detail.
To ensure our products meet your standards, we offer a 200,000-pound compression-testing machine that can be made available to test the load-bearing capabilities of any of our covers and grates.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Cast iron tree grates.
		2. Cast iron tree guards.
		3. Custom logos cast into units.
	1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 32 13 13.17 - Roller-Compacted Concrete Paving.
		2. Section 32 90 00 - Planting.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
			1. ASTM A48 - Standard Specification for Gray Iron Castings.
			2. ASTM A536 - Standard Specification for Ductile Iron Castings.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Preparation instructions and recommendations.
			2. Storage and handling requirements and recommendations.
			3. Installation methods.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Minimum 5 year experience manufacturing similar products.
		2. Installer Qualifications: Minimum 2 year experience installing similar products.

\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mockups: Verify selections made under sample submittals, demonstrate quality standards for materials and execution.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - 1. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.
		1. Source Limitations: Single source trench drains and accessory materials.
	1. DELIVERY, STORAGE, AND HANDLING
		1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
		2. Handling: Handle materials to avoid damage.
	2. PROJECT CONDITIONS
		1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
	3. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

\*\* NOTE TO SPECIFIER \*\* Delete warranty if not required.

* 1. WARRANTY
		1. Warranty: Manufacturer's standard limited warranty.
			1. Warranty Period: Five years from date of Substantial Completion.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Neenah Foundry Co., which is located at: 2121 Brooks Ave. P. O. Box 729; Neenah, WI 54957; Toll Free Tel: 800-558-5075; Tel: 920-725-7000; Fax: 920-729-3661; Email: [request info (construction.sales@neenahenterprises.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Neenah+Foundry+Co.&coid=34427&rep=&fax=920-729-3661&message=RE:%20Spec%20Question%20(02945nee):%20%20&mf=); Web: [www.nfco.com](http://www.nfco.com)

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

\*\* NOTE TO SPECIFIER \*\* Neenah Foundry manufactures beautiful cast iron tree grates and guards in a variety of sizes and shapes. Protect your trees and add a touch of class and sophistication to your landscaping project many of our designs even allow for the inclusion of your city, neighborhood, or company logo. Whether for a downtown street, a quaint suburban neighborhood, or a new stadium or amusement park, Neenah Foundry is certain to manufacture a line of tree grates or guards that meet your exacting specifications.
Neenah is well known in the industry as a manufacturer of two-piece tree grates. We recommend using two-piece (180 degree section) tree grates for the best stability and longevity.
Why Cast Iron? Unlike steel, cast iron is inherently resistant to continued corrosion. When left unpainted, cast iron tree grates and frames will remain unchanged for decades. Cast iron tree grates from Neenah Foundry are strong and will stand up to urban abuse. (Note: not recommended for vehicular traffic) Cast iron tree grates are heavy enough to deter unauthorized removal without the need for lock down devices.

* 1. TREE GRATES

\*\* NOTE TO SPECIFIER \*\* The Adirondack collection is reminiscent of older traditional tree grate offerings and may be an excellent choice for a historical site. Contact us to help you with sizes or shapes our Neenah sales staff is interested in your ideas. Delete if not required.

* + 1. Tree Grates: Adirondack Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8742:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 285 pounds (129 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Light openings are optional. Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8742-A / R-8742-A1:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.

\*\* NOTE TO SPECIFIER \*\* R-8742-A1 includes light openings. R-8742-A does not include light openings. Delete model not required.

* + - * 1. R-8742-A1 Weight: 396 pounds (180 kg) per set.
				2. R-8742-A Weight: 418 pounds (190 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8746-A:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 414 pounds (188 kg) per set.
			2. R-8827:
				1. Size: 31.75 inch (806 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter.
				3. Weight: 110 pounds (50 kg) per set.
			3. R-8827-A1:
				1. Size: 39.75 inch (1010 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete tree opening size not required.

* + - * 1. Tree Opening: 12 inch (305 mm) diameter.
				2. Tree Opening: 14 inch (356 mm) diameter
				3. Weight: 170 pounds (77 kg) per set.
				4. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8829:
				1. Size: 42 inch (1067 mm) diameter.
				2. Tree Opening: 10 inch (254 mm) diameter, expandable.
				3. Weight: 170 pounds (77 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Light openings are optional. Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8833:
				1. Size: 50 inch (1270 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter.
				3. Weight: 266 pounds (121 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Light openings are optional. Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8837-1 / R-8837-A:
				1. Size: 60 inch (1524 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* R-8837-1 includes light openings. R-8837-A does not include light openings. Delete model not required.

* + - * 1. R-8837-1 Weight: 320 pounds (145 kg) per set.
				2. R-8837-A Weight: 308 pounds (140 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8860: Four-piece set.
				1. Size: 93 inch (2362 mm) diameter.
				2. Tree Opening: 40 inch (1016 mm) diameter.
				3. Weight: 640 pounds (290 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Light openings are optional. Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8950:
				1. Size: 44.5 inch (1130 mm) hexagon.
				2. Tree Opening: 16.5 inch (419 mm) hexagon.
				3. Weight: 345 pounds (156 kg) per set.
			2. R-8955:
				1. Size: 60 inch (1524 mm) hexagon.
				2. Tree Opening: 15.75 inch (400 mm) hexagon.
				3. Weight: 540 pounds (245 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Looking for a clean, simplified radial pattern for your public areas? The Avenue tree grate collection has the sizes you need and the narrow slot openings your plans may require. Need a different tree grate size? Contact Neenah to discuss additional options. Delete if not required.

* + 1. Tree Grates: Avenue Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8704:
				1. Size: 30 x 30 inches (762 x 762 mm).
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 100 pounds (45 kg) per set.
				5. Los Angeles approved grate.
			2. R-8704-A:
				1. Size: 36 x 36 inches (914 x 914 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 115 pounds (52 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. R-8704-A LA: Los Angeles approved grate.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with corner light openings.
			1. R-8710:
				1. Size: 48 x 48 inches (1219 x 1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 12 inch (305 mm) diameter, expandable.
				2. Tree Opening: 16 inch (406 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Slot Openings: 0.375 inches (10 mm).
				5. Weight: 260 pounds (118 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8712:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 580 pounds (263 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8715:
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 700 pounds (318 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8810:
				1. Size: 36 x 60 inches (914 x 1524 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 232 pounds (105 kg) per set.
				5. Los Angeles approved grate.
			2. R-8872:
				1. Size: 55.25 inch (1403 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 270 pounds (122 kg) per set.
			3. R-8876:
				1. Size: 72 inch (1829 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* R-8876-1 includes light openings. R-8876 does not include light openings. Delete model not required.

* + - * 1. R-8876 Weight: 622 pounds (282 kg) per set.
				2. R-8876-1 Weight: 606 pounds (275 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8881:
				1. Size: 30 inch (762 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 84 pounds (38 kg) per set.
			2. R-8939: Combination
				1. Size: 72 inches (1829 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 661 pounds (300 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* The radial pattern of the Boulevard tree grate collection combines a clean look with narrow slot openings to create a very versatile grate. Contact us for any special requirements and allow us to work with you in meeting your needs. Delete if not required.

* + 1. Tree Grates: Boulevard Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8708:
				1. Size: 48 x 48 inches (1219 x 1219 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 20 inch (508 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Slot Openings: 0.25 inches (6 mm).
				5. Weight: 290 pounds (132 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.
			1. R-8711: 4 piece set.
				1. Size: 95.125 x 95.125 inches (2416 x 2416 mm).
				2. Tree Opening: 16 inch (406 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 1280 pounds (581 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8713:
				1. Size: 60 x 60 inches (1524 x 1524 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Tree Opening: 36 inch (914 mm) diameter.
				5. Slot Openings: 0.25 inches (6 mm).
				6. Weight: 380 pounds (172 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8716:
				1. Size: 72 x 72 inches (1829 x 1829 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 36 inch (914 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 750 pounds (340 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8811 / R-8811-LA:
				1. Size: 48 x 72 inches (1219 x 1829 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 12 inch (305 mm) diameter.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Tree Opening: 22 inch (559 mm) diameter.
				4. Slot Openings: 0.375 inches (10 mm).
				5. Weight: 394 pounds (179 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. R-8811-LA: Los Angeles approved grate.
			1. R-8811:
				1. Size: 60 x 84 inches (1524 x 2134 mm).
				2. Tree Opening: 30 inch (762 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 456 pounds (207 kg) per set.
			2. R-8814 / R-8814-A:
				1. Size: 36 x 48 inches (914 x 1219 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 252 pounds (114 kg) per set.

\*\* NOTE TO SPECIFIER \*\* R-8814 includes light openings. R-8814-A does not include light openings. Delete model not required.

* + - * 1. R-8814 Weight: 230 pounds (104 kg) per set.
				2. R-8814-A Weight: 252 pounds (114 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8832 / R-8832-A:
				1. Size: 48 inch (1219 mm) diameter.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* R-8832 includes light openings. R-8832-A does not include light openings. Delete model not required.

* + - * 1. R-8832 Weight: 248 pounds (112 kg) per set.
				2. R-8832-A Weight: 250 pounds (113 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.
			1. R-8838 / R-8838-A / R-8838-A1 / R-8838-1:
				1. Size: 60 inch (1524 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* R-8838 and R-8838-A are available with 16 inch expandable opening or 18 inch opening. R-8838-A1 is available with 24 inch expandable opening. R-8838-1 is available with 24 inch opening. Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Tree Opening: 24 inch (610 mm) diameter, expandable.
				5. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - * 1. R-8838 Weight: 374 pounds (170 kg) per set.
				2. R-8838-A Weight: 298 pounds (135 kg) per set.
				3. R-8838-A1 Weight: 292 pounds (132 kg) per set.
				4. R-8838-1 Weight: 344 pounds (156 kg) per set.

\*\* NOTE TO SPECIFIER \*\* R-8838 and R-8838-1 include light openings. R-8838-A and R-8838-A1 do not. Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* R-8838 and R-8838-A are Los Angeles approved. R-8838-A1 and R-8838-1 are not. Delete if not required.

* + - * 1. Los Angeles approved grate.

\*\* NOTE TO SPECIFIER \*\* One of the most popular designs of yesteryear, the Capitol tree grate collection brings us back to an intriguing, time-tested offering. Delete if not required.

* + 1. Tree Grates: Capital Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8839: Four piece set.
				1. Size: 75 inch (1905 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 620 pounds (281 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8843:
				1. Size: 56 inch (1422 mm) diameter.
				2. Tree Opening: 16 inch (406 mm) diameter.
				3. Weight: 292 pounds (132 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8843-A:
				1. Size: 58.5 inch (1486 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 284 pounds (129 kg) per set.
			2. R-8857:
				1. Size: 72 inch (1829 mm) diameter.
				2. Tree Opening: 20 inch (508 mm) diameter.
				3. Weight: 526 pounds (239 kg) per set.
			3. R-8861: Eight piece set.
				1. Size: 96 inch (2438 mm) diameter.
				2. Tree Opening: 28 inch (711 mm) diameter, expandable.
				3. Weight: 1016 pounds (461 kg) per set.
			4. R-8927: Combination
				1. Size: 56 inches (1422 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 324 pounds (147 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* These one-of-a-kind tree grate concepts may be the perfect solution to your unique project. Contact us with your own ideas, and let Neenah be a part of your grate artistry. Delete if not required.

* + 1. Tree Grates: Distinctive Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8700:
				1. Size: 30 x 30 inches (762 x 762 mm).
				2. Tree Opening: 17.5 inch (444 mm) diameter, expandable.
				3. Weight: 125 pounds (57 kg) per set.
			2. R-8702-A:
				1. Tree Opening: 12 inch (305 mm) diameter, expandable.
				2. Weight: 140 pounds (64 kg) per set.
			3. R-8724-A:
				1. Size: 48 x 48 inches (1219 x 1219 mm.
				2. Tree Opening: 15 inch (381 mm) square.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 320 pounds (145 kg) per set.
				5. Los Angeles approved grate.
			4. R-8730:
				1. Size: 48 x 48 inches (1219 x 1219 mm.
				2. Tree Opening: 17 inch (432 mm) diameter.
				3. Weight: 300 pounds (136 kg) per set.
			5. R-8737-B / R-8737-C:

\*\* NOTE TO SPECIFIER \*\* Delete size not required.

* + - * 1. R-8737-B Size: 72 x 72 inches (1829 x 1829 mm).
				2. R-8737-C Size: 60 x 60 inches (1524 x 1524 mm).

\*\* NOTE TO SPECIFIER \*\* Delete opening size not required.

* + - * 1. Tree Opening: 23 inch (584 mm) square.
				2. Tree Opening: 30 inch (762 mm) square.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* 23 inch opening weighs 645 pounds. 30 inch opening weighs 400 pounds. Delete weight not required.

* + - * 1. Weight: 645 pounds (293 kg) per set.
				2. Weight: 400 pounds (181 kg) per set.
				3. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8759:
				1. Size: 48 x 48 inches (1219 x 1219 mm.
				2. Tree Opening: 16 inch (406 mm) diameter.
				3. Weight: 320 pounds (145 kg) per set.
				4. Los Angeles approved grate.
			2. R-8760:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 16 inch (457 mm) square.
				3. Weight: 560 pounds (254 kg) per set.
			3. R-8762:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Weight: 950 pounds (431 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8770:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 16 inch (457 mm) diameter.
				3. Round Openings: 0.5 inches (13 mm).
				4. Weight: 295 pounds (134 kg) per set.
			2. R-8820:
				1. Size: 36 x 60 inches (914 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) square.
				3. Square Openings: 0.5 inches (13 mm).
				4. Weight: 286 pounds (130 kg) per set.
			3. R-8825:
				1. Size: 30 inch (762 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter.
				3. Weight: 80 pounds (36 kg) per set.
			4. R-8850:
				1. Size: 48 x 72 inches (1219 x 1829 mm).
				2. Tree Opening: 18 inch (457 mm) square.
				3. Weight: 286 pounds (172 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Note no tree guards are available for octagonal openings.

* + - 1. R-8953:
				1. Size: 64 inch (1626 mm) octagon.
				2. Tree Opening: 16 inch (457 mm) octagonal, expandable.
				3. Weight: 516 pounds (234 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Where space and design consideration permit, the Extended tree grate collection provides the opportunity to promote tree health through the use of larger tree pits. Many of our other collections can have extension grates created as well. Contact your Neenah representative with your needs. Delete if not required.

* + 1. Tree Grates: Extended Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8806-1A: Four piece set.
				1. Size: 48 x 120 inches (1219 x 3048 mm).
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 720 pounds (327 kg) per set.
				4. Provide with bolted light openings for use with sub-grade lighting.
			2. R-8813: Four piece set.

\*\* NOTE TO SPECIFIER \*\* Total length can be increased with additional end sections.

* + - * 1. Size: 48 x 107.75 inches (1219 x 2737 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 20 inch (508 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Slot Openings: 0.25 inches (6 mm).
				5. Weight: 636 pounds (288 kg) per set.
				6. Los Angeles approved grate.
			1. R-8815: Four piece set.
				1. Size: 48 x 144 inches (1219 x 3658 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 18 inch (457 mm) diameter.
				2. Tree Opening: 24 inch (610 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 928 pounds (421 kg) per set.
			1. R-8815-A / R-8815-B:

\*\* NOTE TO SPECIFIER \*\* Delete model not required.

* + - * 1. R-8815-A Size: 48 x 120 inches (1219 x 3048 mm).
				2. R-8815-B Size: 48 x 96 inches (1219 x 2438 mm).

\*\* NOTE TO SPECIFIER \*\* 26 inch diameter opening is only available for R-8815-A. Delete tree opening sizes not required.

* + - * 1. Tree Opening: 18 inch (457 mm) diameter.
				2. Tree Opening: 26 inch (660 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* Delete weight not required.

* + - * 1. R-8815-A Weight: 646 pounds (293 kg) per set.
				2. R-8815-B Weight: 762 pounds (346 kg) per set.
			1. R-8815-B4: Four piece set.
				1. Size: 48 x 120 inches (1219 x 3048 mm).
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 898 pounds (407 kg) per set.
			2. R-8816: Four piece set.
				1. Size: 60 x 95.75 inches (1524 x 2432 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Tree Opening: 36 inch (914 mm) diameter.
				5. Slot Openings: 0.25 inches (6 mm).
				6. Weight: 706 pounds (320 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8817: Four piece set.
				1. Size: 48 x 108 inches (1219 x 2743 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 685 pounds (311 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* Retrofit grate designed for 48 x 96 inch opening.

* + - 1. R-9107: Four piece set, Retrofit.
				1. Size: 52 x 100 inches (1321 x 2540 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 642 pounds (291 kg) per set.

\*\* NOTE TO SPECIFIER \*\* If something a little different and very eye-catching is what you are after, consider the Greenwich collection. These tree grates have the narrow slot openings and the visual appeal that many architects now seek in their landscape designs. If you don't see the size you want, give us a call. Delete if not required.

* + 1. Tree Grates: Greenwich Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8754 / R-8754-1:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 14 inch (356 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).

\*\* NOTE TO SPECIFIER \*\* R-8754 includes light openings. R-8754-1 does not include light openings. Delete model not required.

* + - * 1. R-8754 Weight: 450 pounds (204 kg) per set.
				2. R-8754-1 Weight: 410 pounds (186 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8757:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
			2. R-8819:
				1. Size: 48 x 72 inches (1219 x 1829 mm).
				2. Tree Opening: 30 inch (762 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 390 pounds (177 kg) per set.
			3. R-8874:
				1. Size: 48 inch (1219 mm) diameter.
				2. Tree Opening: 14 inch (356 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 220 pounds (100 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.

\*\* NOTE TO SPECIFIER \*\* The Majestic tree grate collection was put together to address situations concerning large diameter tree trunks. Larger tree openings, expandability and narrow slot openings make these a great choice for palms and other mature trees. Delete if not required.

* + 1. Tree Grates: Majestic Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8717 / R-8717-A:
				1. Size: 60 x 60 inches (1524 x 1524 mm).

\*\* NOTE TO SPECIFIER \*\* R-8717 has 36 inch opening. R-8717-A has 16 inch opening. Delete opening not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter.
				2. Tree Opening: 36 inch (914 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* R-8717 has 36 inch opening. R-8717-A has 16 inch opening. Delete model not required.

* + - * 1. R-8717 Weight: 440 pounds (200 kg) per set.
				2. R-8717-A Weight: 580 pounds (263 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Removable insert grate is provided with R-8717-A. Delete if not required.

* + - * 1. Provide with removable insert grate.
				2. R-8717 is a Los Angeles approved grate.
			1. R-8718:
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 36 inch (914 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 750 pounds (340 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.
			1. R-8718-A: Four piece set.
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 16 inch (406 mm) diameter with removable insert grate to provide 36 inch (914 mm) diameter opening.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 850 pounds (386 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8871 / R-8871-1:
				1. Size: 60 inch (1524mm) diameter.

\*\* NOTE TO SPECIFIER \*\* R-8871-1 has 32 inch opening. R-8871 has 16 inch opening. Delete opening not required.

* + - * 1. Tree Opening: 16 inch (406 mm) diameter, expandable.
				2. Tree Opening: 32 inch (813 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* R-8871-1 has 32 inch opening. R-8871 has 16 inch opening. Delete model not required.

* + - * 1. R-8871-1 Weight: 336 pounds (152 kg) per set.
				2. R-8871 Weight: 376 pounds (171 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. R-8871-1 is a Los Angeles approved grate.
			1. R-8871-B1:
				1. Size: 72 inch (1829 mm) diameter.
				2. Tree Opening: 32 inch (813 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 400 pounds (181 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Our most popular concept, the Metropolitan tree grate collection provides narrow slot openings, an eye-appealing pattern and is available in a wide variety of sizes and shapes. Don't see exactly what you want? Give us a call! Delete if not required.

* + 1. Tree Grates: Metropolitan Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8706-1A / R-8706-A:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 330 pounds (150 kg) per set.

\*\* NOTE TO SPECIFIER \*\* R-8706-1A does not include light openings. R-8701-A includes light openings. Delete if not required.

* + - * 1. Provide with light openings.
				2. R-8706-1A is a Los Angeles approved grate.
			1. R-8707 / R-8707-LA:
				1. Size: 60 x 60 inches (1524 x 1524 mm).

\*\* NOTE TO SPECIFIER \*\* 24 inch opening is not available for R-8707-LA. Delete tree opening sizes not required.

* + - * 1. Tree Opening: 18 inch (457 mm) diameter, expandable.
				2. Tree Opening: 24 inch (610 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 525 pounds (238 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. R-8707-LA is a Los Angeles approved grate.
			1. R-8709-A:
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 24 inch (610 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 750 pounds (340 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8714-A / R-8714-ALA:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Includes four 1 inch (25 mm) diameter holes for staking tree.
				5. Weight: 520 pounds (236 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. R-8714-ALA is a Los Angeles approved grate.
			1. R-8719:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 32 inch (813 mm) diameter, expandable.
				3. Weight: 302 pounds (137 kg) per set.
			2. R-8784: Four piece set.
				1. Size: 95.125 x 95.125 inches (2416 x 2416 mm).
				2. Tree Opening: 26 inch (660 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 1588 pounds (720 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8834:
				1. Size: 36 inch (914 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 126 pounds (57 kg) per set.
			2. R-8809:
				1. Size: 36 x 72 inches (914 x 1829 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 334 pounds (152 kg) per set.
				5. Los Angeles approved grate.
			3. R-8815-1:
				1. Size: 48 x 72 inches (1219 x 1829 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 480 pounds (218 kg) per set.
			4. R-8830-A1 / R-8830-1:
				1. Size: 48 inch (1219 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).

\*\* NOTE TO SPECIFIER \*\* R-8830-A1 does not have light openings. R-8830-1 has light openings. Delete model not required.

* + - * 1. R-8830-A1 Weight: 252 pounds (114 kg) per set.
				2. R-8830-1 Weight: 268 pounds (122 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.
			1. R-8869-A / R-8869-ALA:
				1. Size: 60 inch (1524 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Includes four 1 inch (25 mm) diameter holes for staking tree.
				5. Weight: 356 pounds (161 kg) per set.
				6. R-8869-ALA is a Los Angeles approved grate.
			2. R-8870:
				1. Size: 60 inch (1524 mm) diameter.
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 375 pounds (170 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
				2. Los Angeles approved grate.
			1. R-8880-A:
				1. Size: 72 inch (1829 mm) diameter.

\*\* NOTE TO SPECIFIER \*\* 36 inch opening is only available with no light opening. Delete tree opening sizes not required.

* + - * 1. Tree Opening: 24 inch (610 mm) diameter, expandable.
				2. Tree Opening: 36 inch (914 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 600 pounds (272 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8883: Twelve piece set.
				1. Size: 96 inch (2438 mm) diameter.
				2. Tree Opening: 28 inch (711 mm) diameter.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 960 pounds (435 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8933: Combination
				1. Size: 60 inch (1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Includes four 1 inch (25 mm) diameter holes for staking tree.
				5. Weight: 438 pounds (199 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8965: Hexagon
				1. Size: 60 inch (1524 mm) hexagon.
				2. Tree Opening: 16 inch (406 mm) hexagonal.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 360 pounds (163 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Our Parkway collection of tree grates is our largest and most varied. The wide range of sizes and shapes allows for a great deal of options to incorporate into your design. Delete if not required.

* + 1. Tree Grates: Parkway Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-8721-A:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 15 inch (381 mm) diameter, expandable.
				3. Weight: 340 pounds (154 kg) per set.
			2. R-8726:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 265 pounds (120kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8728-A:
				1. Size: 60 x 60 inches (1524 x 1524 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 15.75 inch (400 mm) diameter, expandable.
				2. Tree Opening: 32 inch (813 mm) diameter.
				3. Weight: 635 pounds (288 kg) per set.
			1. R-8734:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 370 pounds (168 kg) per set.
			2. R-8738-A1/ R-8738-A2:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.

\*\* NOTE TO SPECIFIER \*\* R-8738-A2 does not have light openings. R-8738-A1 has light openings. Delete model not required.

* + - * 1. R-8738-A1 Weight: 455 pounds (206 kg) per set.
				2. R-8738-A2 Weight: 470 pounds (213 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8738-1 / R-8738-2:
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.

\*\* NOTE TO SPECIFIER \*\* R-8738-2 does not have light openings. R-8738-1 has light openings. Delete model not required.

* + - * 1. R-8738-A1 Weight: 595 pounds (270 kg) per set.
				2. R-8738-A2 Weight: 568 pounds (258 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with bolted light openings for use with sub-grade lighting.
			1. R-8740-1:
				1. Size: 72 x 72 inches (1829 x 1829 mm).
				2. Tree Opening: 20 inch (508 mm) diameter, expandable.
				3. Weight: 520 pounds (236 kg) per set.
			2. R-8750:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 24 inch (610 mm) diameter.
				3. Weight: 236 pounds (107 kg) per set.
			3. R-8752-A:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 605 pounds (274 kg) per set.
			4. R-8752-B:
				1. Size: 60 x 60 inches (1524 x 1524 mm).
				2. Tree Opening: 24 inch (610 mm) diameter, expandable.
				3. Weight: 470 pounds (213 kg) per set.
			5. R-8752-2:
				1. Size: 48 x 48 inches (1219 x 1219 mm).
				2. Tree Opening: 12 inch (305 mm) diameter.
				3. Weight: 335 pounds (152 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Note no tree guards available for octagonal openings.

* + - 1. R-8766:
				1. Size: 64 x 64 inches (1626 x 1626 mm).
				2. Tree Opening: 16 inch (406 mm) hexagonal.
				3. Weight: 780 pounds (354 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8802-A:
				1. Size: 48 x 72 inches (1219 x 1829 mm).
				2. Tree Opening: 18 inch (457 mm) diameter, expandable.
				3. Weight: 306 pounds (139 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8808:
				1. Size: 36 x 72 inches (914 x 1829 mm).

\*\* NOTE TO SPECIFIER \*\* Delete tree opening sizes not required.

* + - * 1. Tree Opening: 12 inch (305 mm) diameter, expandable.
				2. Tree Opening: 18 inch (457 mm) diameter.
				3. Tree Opening: 24 inch (610 mm) diameter.
				4. Weight: 300 pounds (136 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-8821:
				1. Size: 95.125 x 119.125 inches (2416 x 3026 mm).
				2. Tree Opening: 26 inch (660 mm) diameter.
				3. Weight: 1536 pounds (697 kg) per set.
			2. R-8847:
				1. Size: 50 inch (1270 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 262 pounds (119 kg) per set.
			3. R-8849:
				1. Size: 56 inch (1422 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 376 pounds (171 kg) per set.
			4. R-8851:
				1. Size: 66 inch (1676 mm) diameter.
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 518 pounds (235 kg) per set.
			5. R-8855-1:
				1. Size: 72 inch (1829 mm) diameter.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 495 pounds (225 kg) per set.
				4. Provide with bolted light openings for use with sub-grade lighting.
			6. R-8855-2:
				1. Size: 54 inch (1372 mm) diameter.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 310 pounds (141 kg) per set.
			7. R-8929: Combination
				1. Size: 62 inch (1575 mm).
				2. Tree Opening: 12 inch (305 mm) diameter, expandable.
				3. Weight: 501 pounds (227 kg) per set.
			8. R-8931-1: Combination
				1. Size: 72 inch (1829 mm).
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 545 pounds (247 kg) per set.
				4. Provide with bolted light openings for use with sub-grade lighting.

\*\* NOTE TO SPECIFIER \*\* Note no tree guards available for octagonal openings.

* + - 1. R-8937: Combination
				1. Size: 64 inch (1626 mm).
				2. Tree Opening: 16 inch (406 mm) octagonal.
				3. Weight: 716 pounds (325 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* Note no tree guards available for octagonal openings.

* + - 1. R-8952: Octagon
				1. Size: 64 inch (1626 mm) octagon.
				2. Tree Opening: 16 inch (406 mm) octagonal.
				3. Weight: 640 pounds (290 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.

\*\* NOTE TO SPECIFIER \*\* Developed specifically for use in an existing paved area, the Retrofit tree grate collection is a popular alternative to poured-in-place grates. Level concrete can simply be cut to the necessary opening size. The overlapping edge covers any minor irregularities in the cut. Delete if not required.

* + 1. Tree Grates: Retrofit Collection by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. R-9001:
				1. Size: 54 inch (1372 x 1372 mm) diameter for 50 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 290 pounds (132 kg) per set.
			2. R-9002:
				1. Size: 52 x 52 inches (1321 x 1321 mm) for 48 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 266 pounds (121 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-9002-A:
				1. Size: 64 x 64 inches (1626 x 1626 mm) for 60 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 518 pounds (235 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Provide with light openings.
			1. R-9003:
				1. Size: 40 x 40 inches (1016 x 1016 mm) for 36 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 175 pounds (79 kg) per set.
			2. R-9004-1:
				1. Size: 62 x 62 inches (1575 x 1575 mm) for 57.5 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 440 pounds (200 kg) per set.
				4. Provide with bolted light openings for use with sub-grade lighting.
			3. R-9101:
				1. Size: 59 x 54 inches (1599 x 1372 mm) for 55 x 50 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter oval, expandable.
				3. Weight: 412 pounds (187 kg) per set.
			4. R-9101-A:
				1. Size: 54 x 54 inches (1372 x 1372 mm) for 50 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Weight: 354 pounds (161 kg) per set.
			5. R-9105:
				1. Size: 36 x 72 inches (914 x 1829 mm) for 32 x 68 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 326 pounds (148 kg) per set.
				5. Los Angeles approved grate.
			6. R-9106:
				1. Size: 40 x 52 inches (1016 x 1321 mm) for 36 x 48 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.25 inches (6 mm).
				4. Weight: 262 pounds (119 kg) per set.
			7. R-9107:
				1. Size: 52 x 100 inches (1321 x 2540 mm) for 48 x 96 inch opening.
				2. Tree Opening: 16 inch (406 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 642 pounds (291 kg) per set.
			8. R-9108:
				1. Size: 52 x 76 inches (1321 x 1930 mm) for 48 x 72 inch opening.
				2. Tree Opening: 22 inch (559 mm) diameter, expandable.
				3. Slot Openings: 0.375 inches (10 mm).
				4. Weight: 378 pounds (171 kg) per set.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* 1. TREE GUARDS

\*\* NOTE TO SPECIFIER \*\* Neenah Tree Guards are manufactured from hot rolled, pickled and oiled mild steel in the five standard illustrated styles. Guards are designed to be attached in four places to bolting lugs which are integrally cast to the underside of the tree grate.
Neenah Tree Guards are manufactured using .5" flat and .625" square steel stock. Our use of these heavier materials sets Neenah's Tree Guards apart from the others, making for a stronger and more durable product.
Neenah furnishes guards completely assembled in two half sections. Guards are supplied with the vertical bars bolted to the rings. No tree guards are available for octagonal openings.
Delete if not required.

* + 1. Tree Guards: As manufactured by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Delete items not required.

* + - 1. Type A:

\*\* NOTE TO SPECIFIER \*\* Delete heights not required.

* + - * 1. Height: 4 feet (1219 mm).
				2. Height: 5 feet (1524 mm).
				3. Height: 6 feet (1829 mm).
				4. Tree Opening Diameter: \_\_\_\_.
				5. Bars: 5/8 inch (16 mm) square steel bar stock.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: Powder coat, black.
				2. Finish: \_\_\_\_.
			1. Type B:

\*\* NOTE TO SPECIFIER \*\* Delete heights not required.

* + - * 1. Height: 4 feet (1219 mm).
				2. Height: 5 feet (1524 mm).
				3. Height: 6 feet (1829 mm).
				4. Tree Opening Diameter: \_\_\_\_.
				5. Bars: 5/8 inch (16 mm) square steel bar stock.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: Powder coat, black.
				2. Finish: \_\_\_\_.
			1. Type C:

\*\* NOTE TO SPECIFIER \*\* Delete heights not required.

* + - * 1. Height: 4 feet (1219 mm).
				2. Height: 5 feet (1524 mm).
				3. Height: 6 feet (1829 mm).
				4. Tree Opening Diameter: \_\_\_\_.
				5. Bars: 1/4 x 1-1/2 inch (6 x 38 mm) steel bar stock.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: Powder coat, black.
				2. Finish: \_\_\_\_.
			1. Type D:

\*\* NOTE TO SPECIFIER \*\* Delete heights not required.

* + - * 1. Height: 4 feet (1219 mm).
				2. Height: 5 feet (1524 mm).
				3. Height: 6 feet (1829 mm).
				4. Tree Opening Diameter: \_\_\_\_.
				5. Bars: 1/4 x 1-1/2 inch (6 x 38 mm) steel bar stock.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: Powder coat, black.
				2. Finish: \_\_\_\_.
			1. Type E:

\*\* NOTE TO SPECIFIER \*\* Delete heights not required.

* + - * 1. Height: 4 feet (1219 mm).
				2. Height: 5 feet (1524 mm).
				3. Height: 6 feet (1829 mm).
				4. Tree Opening Diameter: \_\_\_\_.
				5. Bars: 1/4 x 1-1/2 inch (6 x 38 mm) steel bar stock.

\*\* NOTE TO SPECIFIER \*\* Delete finish not required.

* + - * 1. Finish: Powder coat, black.
				2. Finish: \_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Does your company have a corporate insignia or municipal logo that you would like to incorporate into your architectural designs or construction project? Neenah Foundry has the ability to take your concepts and recreate them through Sidewalk Medallions, Tree Grate Logos and Custom Manhole Covers. This is a great opportunity to tie together a common municipal or corporate theme. Contact your Neenah representative with your ideas. Delete if not required.

* 1. CUSTOM LOGOS
		1. Custom Logos: As manufactured by Neenah Foundry.

\*\* NOTE TO SPECIFIER \*\* Modify as required to suit project requirements.

* + - 1. See Drawings for logo.
				1. Size: \_\_\_\_.
1. EXECUTION
	1. EXAMINATION
		1. Examine substrates for compliance with requirements for installation. Proceed with installation only after unsatisfactory conditions have been corrected.
		2. Do not begin installation until substrates have been properly prepared and necessary building services are installed.
		3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
	2. PREPARATION
		1. Clean and prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install tree grates in accordance with manufacturer's written instructions and approved submittals.
			1. Comply with manufacturer's requirements for proper support and bearing.
			2. Comply with installation requirements in Section 32 13 13.17 - Roller-Compacted Concrete Paving.
			3. Surface of tree grate to be flush with surrounding finish surface. Variation from flush not to exceed plus or minus 1/8 inch (3 mm).
	4. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION