**Section 09 54 00**

**Specialty Ceilings**

Lindner PARC is a member of the Lindner Group; Europe’s leading manufacturer and contractor for building envelope, interior fit-out, and insulation.

Lindner PARC’s mission is to enable forward-thinking building designers to achieve their vision by delivering innovative, beautiful ceiling systems that are easy to specify, order, install and maintain.

We are experienced in complex integration projects and can work directly with owners and design teams to design and execute the best solution for your unique project needs.

For additional information and assistance with design options, contact us at:

Lindner PARC

638 Raleigh St, Winnipeg, MB R2K 3Z9, Canada

+1 431 807 9918

info@parc-ceilings.com

**PART 1 – GENERAL**

* 1. DESCRIPTION OF WORK
1. Work Included: Provide labor, materials, and equipment necessary to complete the work of this Section, including but not limited to the following:
	1. Technical strips for the installation of building services devices (Node System by PARC)
	2. SUBMITTALS
2. Product Data: Submit manufacturer’s product literature for each type of technical strip and all associated building services devices.
3. Shop Drawings: Include pre-coordinated locations for all building services devices, which will be factory cut unless otherwise specified by the project. Drawing package shall include:
	1. Layout submittals
	2. Sectional details through each building service device
	3. Indicative mounting details
4. Sustainability: The manufacturer shall provide supporting documents related to LEED v4 and WELL requirements.
	1. QUALITY ASSURANCE
5. Manufacturer Qualifications: A company that employs skilled workers who custom-fabricate to order products similar to those required for this project. The manufacturer shall be certified to ISO 9001:2015 Quality Management Systems.
6. Source limitations: Obtain technical strips, associated plenums and listed building services devices from a single manufacturer.
7. Installer Qualifications: Minimum of two years’ experience with architectural ceiling installations. All building services shall be connected by a qualified professional.
	1. DELIVERY, STORAGE AND HANDLING
8. Comply with manufacturer’s written instructions for minimum and maximum temperature and humidity requirements for shipment, storage and handling.
	1. PROJECT CONDITIONS
9. Field Measurements: If field measurements are to be taken, this information shall be known prior to fabrication and indicated in shop drawing feedback.
	1. WARRANTY
10. Products are covered by the manufacturer’s standard warranty. Standard warranty period of 24 months.

**PART 2 – PRODUCTS**

* 1. TECHNICAL STRIP
1. Performance and Design Requirements
	1. General:
	2. The technical strip shall be an extrusion, or series of extrusions, suitable for installation of the Node devices.
	3. The technical strip shall be factory machined to accept Node devices or third-party devices (by others) in the locations as indicated on the plans. The locations shall be confirmed in shop drawings.
	4. Housings for Node devices shall be factory installed.
2. Dimensions:
3. Each segment of technical strip has a maximum length of 10ft.
4. Adjoining sections shall be connected, on site, using alignment devices.
5. Finishes:
	1. Power coat finish ***(delete as appropriate)***
	2. Finish: ***<Insert Standard PARC B17 Black, PARC B30 White, or other RAL colour>***
	3. Power coat thickness shall be a minimum of 2.0 mils.
	4. Powder coat finish shall have a hardness of ≥ H when tested to ASTM D3363.
	5. Powder coat finish shall have impact resistance of ≥ 4.52 Newton Metres [40 inch-pounds] when tested to ASTM D2794.
6. Anodized finish ***(delete as appropriate)***
	1. Finish: ***<Insert Standard PARC Anodized finish>***
	2. Architectural grade anodizing
	3. Anodizing performed in-house manufacturer to ensure match.
	4. Anodizing shall include a secondary finishing process applied to mitigate die lines.
7. Basis of Design: Node Channel by PARC
8. Node Flush Channel ***(delete as appropriate)***
9. Channel Face Width: 120mm [4.72 inches]
10. Channel Height: 100mm [3.94 inches]
11. Material: Aluminum Extrusion
12. Installation: Channel Face clips to mounting brackets. Mounting brackets suspended from ceiling grid or ‘Core Mounting System’ by PARC.
13. Accessories:
	* + Access cables to connect channel face to mounting brackets.
		+ End caps
14. Interface: ***<Insert description of adjacent ceiling type>***
15. Node Recessed Channel ***(delete as appropriate)***
16. Ceiling Opening Width: 120mm [4.72 inches]
17. Channel Height: 100mm [3.94 inches]
18. Material: Aluminum Extrusion
19. Installation: Channel Face clips to mounting brackets. Mounting brackets suspended from ceiling grid or ‘Core Mounting System’ by PARC.
20. Accessories:
	* End caps
21. Interface: ***<Insert description of adjacent ceiling type>***
	1. AIR DISTRIBUTION ***Delete Section 2.2 if air distribution is not a required feature of Node on this project***
22. Performance and Design Requirements
23. General:
24. The technical strip shall have integral geometry allowing it to function as a diffuser for the purposes of air distribution.
25. The addition of a sheet metal plenum box to the rear of the technical strip provides the additional air distribution functionality.
	1. Performance:
26. A horizontal or vertical ***(delete as appropriate – applicable to Recessed Channel with Diffuser only)*** air distribution pattern is required.
27. Airflow characteristics shall be tested to ASHRAE Standard 70-2006 “Method of testing for Rating the Performance of Air Outlets and Inlets.”
28. Basis of Design: Node Plenum by PARC
	1. BUILDING SERVICES DEVICES ***Delete Section 2.3 if standard Node devices are not a feature of this project.***
29. Performance and Design Requirements
	* 1. Dimensions:
			1. All building services devices shall have a unified aesthetic appearance and size.
			2. All round building services shall be 3.54” [90 millimetres] in diameter.
30. Installation:
31. All building services should have a concealed fixing method with no visible screws.
32. Finishes:
	* 1. Device finishes shall match the finish of the technical strip.
		2. Power coat finish ***(delete as appropriate)***
		3. Finish: ***<Insert Standard PARC B17 Black, PARC B30 White, or other RAL colour>***
		4. Power coat thickness shall be a minimum of 2.0 mils.
		5. Powder coat finish shall have a hardness of ≥ H when tested to ASTM D3363.
		6. Powder coat finish shall have impact resistance of ≥ 4.52 Newton Metres [40 inch-pounds] when tested to ASTM D2794.
33. Anodized finish ***(delete as appropriate)***
	* 1. Finish: ***<Insert Standard PARC Anodized finish>***
		2. Architectural grade anodizing
		3. Anodizing performed in-house manufacturer to ensure match.
		4. Anodizing shall include a secondary finishing process applied to mitigate die lines.
34. Basis of Design:
35. Node Downlight by PARC
36. Node Linear Light by PARC
37. Node Sensor by PARC
38. Node Camera by PARC
39. Node Sprinkler by PARC
40. Node Smoke Sampling Point by PARC
41. Node Speaker by PARC

**PART 3 – EXECUTION**

* 1. EXAMINATION
1. Examine all substrates and conditions, with Installer present, for compliance with requirements, installation tolerances, and other conditions affecting installation or performance of technical strips and devices.
2. Proceed with installation only after unsatisfactory conditions have been corrected Comply with manufacturer's written instructions for installation of Node Channels.
	1. INSTALLATION
3. Install technical strips and building services devices in location as indicated in architectural drawings, mechanical drawings and the manufacturer’s shop drawings. Ensure that all technical strips are lined and levelled.
4. Comply with manufacturer's written instructions for installation of Node Channels.
	1. PROTECTION
5. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, to ensure that technical strips and devices are without damage or deterioration at time of Substantial Completion.