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What's the Best Way to Specify Integrated Systems?

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Ingenuity for life



Moderator



Ray Coulombe
Founder & Managing Director
SecuritySpecifiers



Panelists



Greg Ceton
Director of Strategic Initiatives &
Special Projects
Construction Specifications Institute



James Krile
Senior Technology Engineer
Heapy Engineering



Jim Henry
Independent Consultant
Co-Host,
The Risk Advisor Podcast



Frank Pisciotta
Founder & President
Business Protection Specialists

Discussion Topics

- **Background on CSI and MasterFormat**
- **What are unified or integrated systems**
- **Specifying component vs. systems**
- **Consultant experiences**
- **What can we expect moving forward**



*Building Knowledge
Improving Project Delivery*

Masterformat® and specifications

A primer



MasterFormat®

- **Work Results-based content**
- **Used in Design Development and Construction Documents phases**
- **Used for detailed costing analysis**

DIVISION 28

28 00 00 Electronic Safety and Security



See: 02 41 19 for selective demolition of existing electronic safety and security systems.
07 84 00 for firestopping.
08 31 00 for access doors and panels. 08 42 00 for entrances. 08 56 53 for security windows. 08 70 00 for hardware. 08 87 23 for safety and security films.
10 14 63 for electronic message signage.
11 12 00 for parking control equipment. 11 97 00 for security equipment. 11 98 00 for detention equipment.
12 59 00 for systems furniture.
25 38 00 for integrated automation instrumentation and terminal devices for electronic safety and security. 25 58 00 for integrated automation control of electronic safety and security. 25 98 00 for integrated automation control sequences for electronic safety and security. 26 55 53 for security lighting.
27 11 00 for communications equipment room fittings. 27 15 01 for communications horizontal cabling applications. 27 20 00 for data communications. 27 30 00 for voice communications. 27 40 00 for audio-video communications. 27 50 00 for distributed communications and monitoring systems.
32 31 13.53 for high-security chain link fences and gates. 33 79 00 for site grounding.
33 80 00 for communications utilities. 34 40 00 for transportation signaling and control equipment.
40 63 00 for control system equipment.

DIVISION 28

28 00 00 Electronic Safety and Security

28 10 00 Access Control



Includes:	Control and monitoring equipment and systems for controlling access to a facility.
See:	<p>08 34 53 for Security Doors and Frames. 08 42 33 for Revolving Door Entrances. 08 71 00 for door hardware. 08 74 00 for Non-Integrated Access Control hardware. 11 12 00 for parking control equipment. 11 14 00 for pedestrian control equipment. 11 15 00 for security control equipment. 11 98 00 for detention equipment 26 05 33 for raceway and boxes for electrical. 27 05 28 for pathways for communications. 27 05 33 for conduits and backboxes for communications systems. 27 15 01.15 for access control communications conductors and cables. 28 05 07.11 for power sources for access control. 28 05 13 for servers, workstations, and storage for electronic safety and security 28 05 31 for communications equipment for electronic safety and security. 28 20 00 for video surveillance. 28 31 00 for intrusion detection. 28 46 00 for fire detection and alarm. 28 51 00 for information management and presentation 28 52 00 for detention security systems. 34 50 00 for transportation fare collection equipment. 41 24 36 for process metal detectors.</p>

DIVISION 28

28 00 00 Electronic Safety and Security

28 10 00 Access Control

28 16 00 Access Control Interfaces

See Also: 28 05 45 for Systems Integration and Unified Systems.



DIVISION 28

28 00 00 Electronic Safety and Security

28 10 00 Access Control

28 16 00 Access Control Interfaces

28 16 11 Access Control Interfaces to Access Control Hardware

See: 08 34 53 for Security Doors and Frames. 08 42 33 for Revolving Door Entrances.
08 71 00 for door hardware. 08 74 00 for Non-Integrated Access Control hardware.





SPECIFICATIONS

Role of Specifications

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- Contract documents required by standard agreements

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- Describe quality and performance requirements

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- Describe quality and performance requirements
- Describe installation standards

Role of Specifications

- Contract documents required by standard agreements
- Describe quality and performance requirements
- Describe installation standards
- Describe other administrative requirements

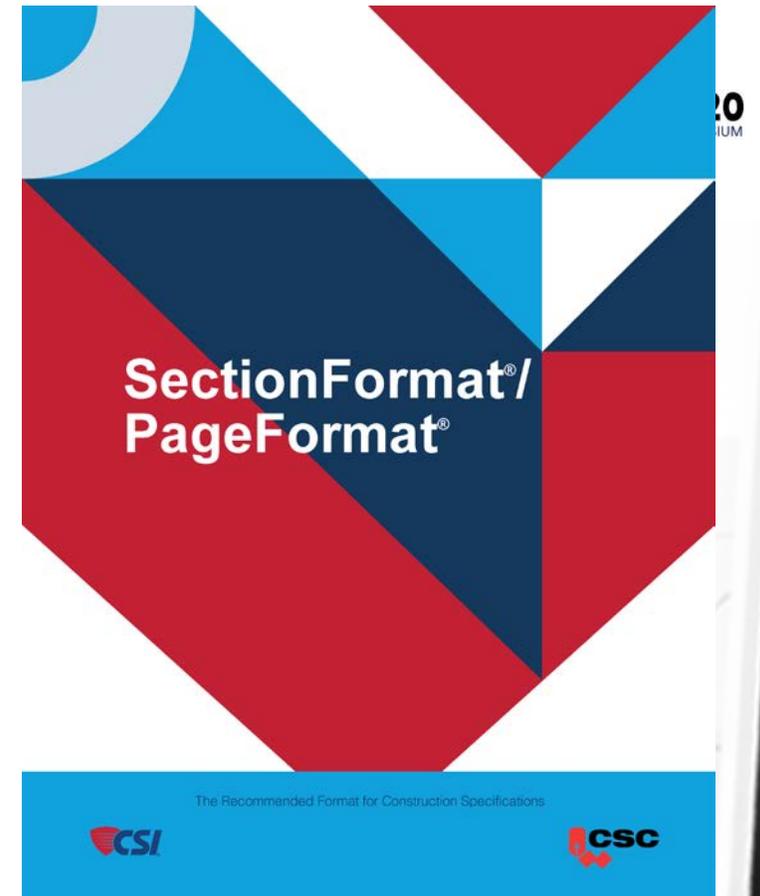
SectionFormat®

- CSI standard for specification sections



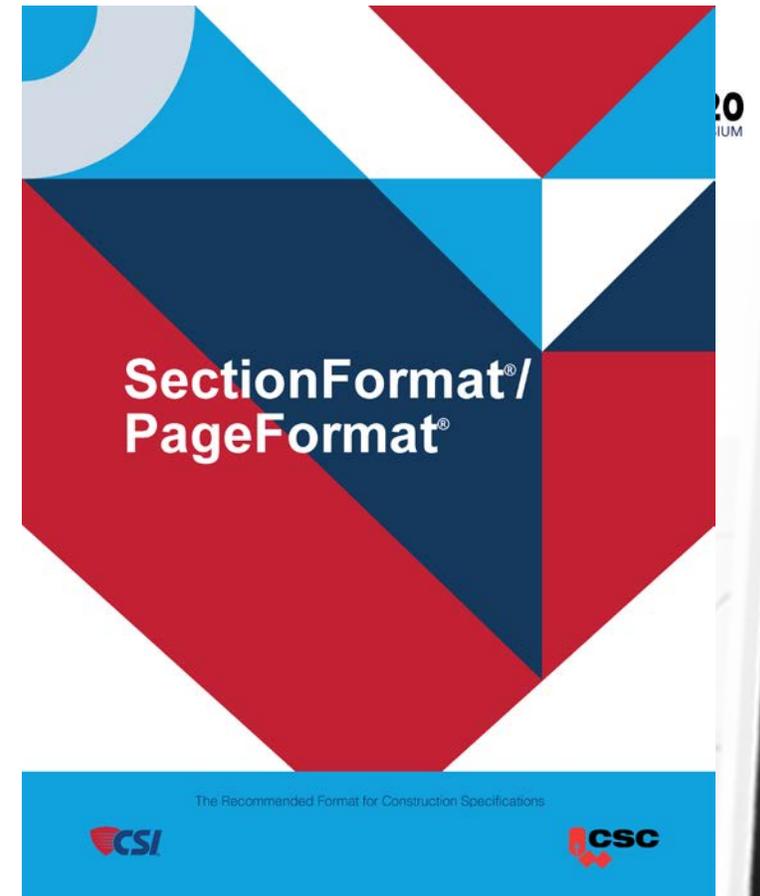
SectionFormat®

- CSI standard for specification sections
- Provides outline for spec content



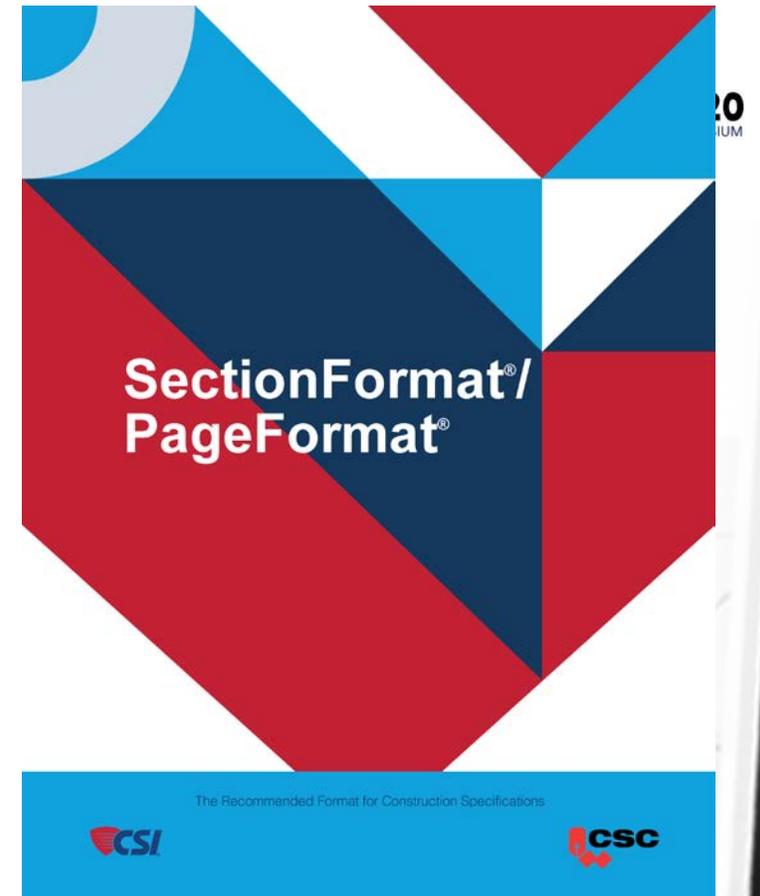
SectionFormat®

- CSI standard for specification sections
- Provides outline for spec content
- Three Parts
 - 1 – General
 - 2 – Products
 - 3 – Execution



SectionFormat®

- CSI standard for specification sections
- Provides outline for spec content
- Three Parts
 - 1 – General
 - 2 – Products
 - 3 – Execution
- Subsections under each Part



The Four Cs

- CSI guideline to describe proper specification language.

CLEAR

COMPLETE

CONCISE

CORRECT



CONSTRUCTION SPECIFICATIONS

PRACTICE GUIDE
Second Edition

For More Guidance

- CSI Practice Guides
- New Specifications Practice Guide early 2021

Serves as an authoritative resource for effective writing of design intent

Includes CSI's best practices for authoring specifications

Offers specialized guidance on project information in the context of BIM and sustainable design

THANK YOU

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Questions?



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/in/gceon

