

tech-check specs architectural | Division 08

This is a template, so some items will apply to your project, and others won't or will be missing. When using the list, make the changes needed for your project.

The content of the Tech-Check Lists is based on our specs and MASTERSPEC®.

DIVISION 08 - OPENINGS

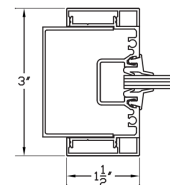
□ 081113 - HOLLOW METAL DOORS AND FRAMES

- This section specifies steel doors and frames, rated and non-rated, non-insulated, interior and exterior door frames and doors, galvanized for exteriors and shop primed for interiors, to be field painted.
 - Basis of Design Manufacturer:** Assa Abloy (CECO or Curries)
- Section includes fire-rated doors when required by code.
- Borrowed-lites are included in the section if in the project.
- LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 081216 - ALUMINUM FRAMES

- This section specifies interior clear anodized doors and side-lights frames.
 - Basis of Design Manufacturer:** Raco (only for one panel, no insulating glass)
- Section includes fire-rated frames (up to 1 hour) when required by code.
- Borrowed-lites are included in the section if in the project.
- LEED PREments and Submittals** included at the beginning of the section.



□ 081416 - FLUSH WOOD DOORS

- This section specifies flush wood doors with opaque finish (paint), veneered faces, or plastic laminate faces.
 - Basis of Design Manufacturer:** Eggers or Marshfield (Masonite)
- Cores are MEF for non-rated doors and particleboard or mineral core for rated.
- Painted doors are AWI Custom Grade with MDF faces.
 - Finish Type is specified.
- Wood veneered doors are AWI Custom Grade except for posh projects, specify Premium Grade.
 - Veneer species, cut and placement of veneer next to each other and within the face of the doors is specified.
 - Finish is specified.
 - If veneered door is within a wood panel room or wall, this is indicated in the specs.
- Acoustics performance requirements are specified if needed.
- LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 083113 - ACCESS DOORS AND FRAMES

- This section specifies access panels and frames, steel to be field painted
 - Basis of Design Manufacturers typical units: Larsen's or JL Industries.
 - Basis of Design Manufacturers for gypsum board ceilings at public areas: Intexforms.
- Location of panels is not know until construction.
- Rated requirements and products are included unless there are no rated assemblies in the project.
- Locks are specified if required.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



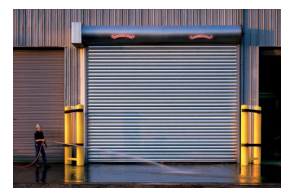
□ 083216 - SLIDING ALUMINUM-FRAMED GLASS DOORS

- This section specifies sliding aluminum-framed doors for exterior locations.
 - **Basis of Design Manufacturers:** CRL, Kawneer; Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product.asp?cat_id=1343&prod_id=1846&desc=sliding-track-mall-storefront-door-panel
- Performance requirements are included.
- Glazing is included (these are glazed by the manufacturer).
- Hardware is included in the section or it is in the Drawings.
- Finish is included.
- Details match product selected.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 083323 - OVERHEAD COILING DOORS

- This section specifies overhead coiling doors manually or motor operated, fire rated or not, for exteriors and interiors, shop finished.
 - **Basis of Design Manufacturer:** Overhead Doors (Cookson). <https://www.overheaddoor.com/rolling-steel-service-doors>
- If possible, require single source responsibility for coiling and sectional doors in the project.
- Performance requirements are included.
- If motor operated, coordination with electrical work requirement is included.
- If rated, fire rating requirements are included.
- Curtain door of specified model is described.
- Insulated is specified at exterior doors with at occupied interior spaces.
- Locking devices are included and hopefully coordinated with Owner.
- Shop finish is specified and color selected (or "selected from manufacturer" standard colors" added). Custom colors are expensive.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



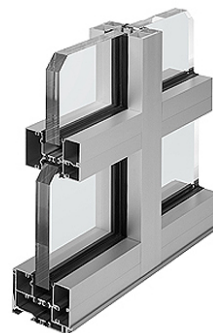
□ 083613 - SECTIONAL DOORS

- This section specifies manually or motor operated sectional doors (there are not fire-rated sectional doors), steel only.
 - **Basis of Design Manufacturer:** Overhead Doors (Cookson). <https://www.overheaddoor.com/rolling-steel-service-doors>
- If possible, require single source responsibility for coiling and sectional doors in the project.
- Performance requirements are included.
- If motor operated, coordination with electrical work requirement is included.
- Curtain door of model selected is described.
- Insulated is specified at exterior doors with at occupied interior spaces.
- If vision panels are required they are included in the spec.
- Locking devices are included and hopefully coordinated with Owner.
- Shop finish is specified and color selected (or "selected from manufacturer" standard colors" added). Custom colors are expensive.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



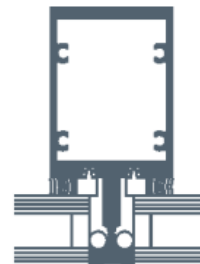
□ 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

- This section specifies storefront framing and manual-swing entrances.
 - **Basis of Design Manufacturers:** Kawneer and Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product_category.asp?cat_id=1342&desc=fixed-aluminum-framing-storefront-glazing-systems
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- Only systems with thermal performance systems are OK for exterior applications.
- If calculations are needed, these are usually by the fabricator. If "delegated design" is required, include the structural parameters in the Delegated Design Section.
- Finish type is included - color for coatings and type of anodized (clear, black, etc.)
- Check samples required by the section to make sure that is what you want.
- Check that warranties required are included.
- Check that details storefront, entrances, and installation match the section.
- Entrance door is specified with the right rating (medium use, use type, hardware, finish)
- Type of glass and glass position (center, back, front) in the frame is specified.
- Field testing is included.
- Butt joints (if any): Silicone sealant is specified.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084116 - ALL-GLASS ENTRANCES AND STOREFRONTS

- This section specifies storefront framing and manual-swing entrances.
 - **Basis of Design Manufacturers:** Kawneer and Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product_category.asp?cat_id=1342&desc=fixed-aluminum-framing-storefront-glazing-systems
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- Only systems with thermal performance systems are OK for exterior applications.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Finish type is included - color for coatings and type of anodized (clear, black, etc.)
- Check samples required by the section to make sure that is what you want.
- Check that warranties required are included.
- Check that details storefront, entrances, and installation match the section.
- Entrance door is specified with the right rating (medium use, use type, hardware, finish)
- Type of glass and glass position (center, back, front) in the frame is specified.
- Field testing is included.
- Butt joints (if any): Silicone sealant is specified.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084213 - ALUMINUM-FRAMED ENTRANCES

- This section specifies aluminum-framed manual-swing entrances for exteriors.
 - **Basis of Design Manufacturers:** US Aluminum, Kawneer and Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product_category.asp?cat_id=1339&desc=commercial-aluminum-swing-door-entrance-systems
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Energy performance requirements are specified.
- Traffic requirement is included (Moderate or High)
- Finish type is included - color for coatings and type of anodized (clear, black, etc.)
- Check that warranties required are included.
- Check that details match the section.
- Hardware is specified.
- Type of stile (medium or Wide only, no Narrow because hardware does not fit)
- Type of glass and glass position (center, back, front) in the frame is specified.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084226 - ALL-GLASS ENTRANCES

- This section specifies frameless manual-swing entrances for exteriors.
 - **Basis of Design Manufacturers:** CRL (these are Blumcraft), Kawneer and Oldcastle. http://www.crl-arch.com/product_page/doors_entrances/glass_entrance_doors.html
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Metal components finish is included.
- Check that warranties required are included.
- Check that details match the section.
- Hardware is specified (comes with the door).
- Type of glass is specified (comes with the door).
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084413 - GLAZED-ALUMINUM CURTAIN WALLS

- This section specifies aluminum framed traditional or unitized curtain wall systems.
 - **Basis of Design Manufacturers:** Kawneer and Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product.asp?cat_id=1992&prod_id=1805&desc=thermal-break-ssg-aluminum-curtain-walls
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- Only systems with thermal performance systems are OK for exterior applications.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Finish type is included - color for coatings and type of anodized (clear, black, etc.)
- Check samples required by the section to make sure that is what you want.
- Check that warranties required are included.
- Check that the section matches the curtain wall details curtain and installation.
- Type of glass and glass position (center, back, front) in the frame is specified.
- Field testing is included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084423 - STRUCTURAL-SEALANT-GLAZED CURTAIN WALLS

- This section specifies curtain wall with butt joints (vertical, horizontal, or both ways) traditional or unitized curtain wall systems.
 - **Basis of Design Manufacturers:** Kawneer and Oldcastle. https://www.kawneer.com/kawneer/north_america/en/product_filter.asp?cat_id=1992
- If possible, require single source responsibility for all the glazed assemblies in the building envelope.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- Only systems with thermal performance systems are OK for exterior applications.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Finish type is included - color for coatings and type of anodized (clear, black, etc.)
- Check samples required by the section to make sure that is what you want.
- Check that warranties required are included.
- Check that the section matches the curtain wall details curtain and installation.
- Type of glass is specified.
- Field testing is included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 084523 - FIBERGLASS-SANDWICH-PANEL ASSEMBLIES

- This section specifies panels for walls, roof, skylights, and canopies.
 - **Basis of Design Manufacturers:** Kalwall. <https://www.kalwall.com/kalwall-products/>
- If possible, require single source responsibility for all the sandwich assemblies in the building envelope.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Check that warranties required are included.
- Check that the section matches the details.
- Thickness, grid, both faces and aluminum framing are specified.
- Finishes are included.
- Field testing is included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 086200 - UNIT SKYLIGHTS

- This section specifies plastic unit skylights (domes typically) with INTEGRAL CURBS.
 - **Basis of Design Manufacturers:** Bristolite, <http://www.bristolite.com/interfaces/productssummary.aspx?M=2&V=1>
- Require single source responsibility for all unit skylights in the project.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- Check that warranties required are included.
- Check that the section matches the details.
- Curb, framing, and plastic type are specified.
- Unit size and shape, and finishes are included.
- Structural curbs and safety screens are required.
- Field testing is included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 086300 - METAL-FRAMED SKYLIGHTS

- This section specifies plastic unit skylights (domes typically) with INTEGRAL CURBS.
 - **Basis of Design Manufacturers:** Bristolite, <http://www.bristolite.com/interfaces/productssummary.aspx?M=2&V=1>
- Require single source responsibility for all metal framed skylights in the project.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Check that warranties required are included.
- Check that the section matches the details.
- Curb, framing, and glass type are specified.
- Unit size and shape, and finishes are included.
- Structural curbs and safety screens are required.
- Field testing is included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.

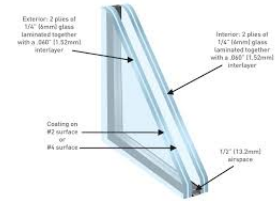


□ 087100 - DOOR HARDWARE

- This section specifies mechanical door hardware for swing doors.
- Coordination with electrical work requirement is included.
- Submittal of hardware schedule prepared under the supervision of the Installer Architectural Hardware Consultant requirement is included.
- Warranties are included.
- Performance requirements for fire rated doors, smoke control doors, electrified doors, means of egress doors and accessibility are included.
- The hardware schedule and hardware groups are in the Drawings.

□ 088000 - GLAZING

- This section specifies glass in the building envelope.
 - Basis of Design Fabricator:** Viracon (does not manufacture glass; buys glass from the glass manufacturers and treats it (tempers, cuts, laminates, etc.) and then manufactures the glazing units (insulated glass, etc.) <http://www.viracon.com/>
- Warranties for each type of glass in the project are included.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Check that all the glass types in the project are included in the spec.
- Check that there is a schedule at the end of the section.
- Sealants are included.
- LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



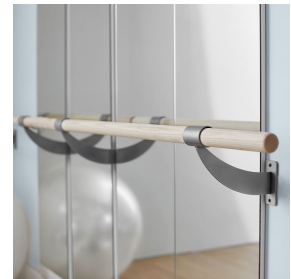
□ 088113 - DECORATIVE GLASS GLAZING

- This section specifies decorative glass in the building envelope.
- Warranties for each type of glass in the project are included.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Check that all the glass types in the project are included in the spec.
- Check that there is a schedule at the end of the section.
- Sealants are included.
- LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 088300 - MIRRORS

- This section specifies wall mounted mirrors.
- Warranties for each type of mirror in the project are included.
- For backing of mirrors without lead, see manufacturer's information.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Avoid attaching the mirror only with adhesive; specify mechanical attachments or a combination of mechanical attachments and adhesive.
- Type of safety glazing is specified.
- Trim or edge finish is included.
- LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



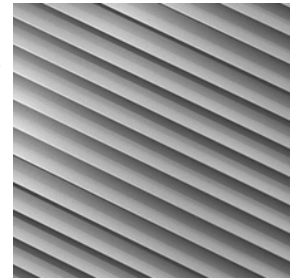
□ 088813 - FIRE-RESISTANT GLAZING

- This section specifies fire-protection (not fire-resistant) glass and framing assemblies.
 - **Basis of Design Fabricator:** Safti-First, fire rating glass and framing. <http://safti.com/>
- Warranties for each type of glass in the project are included..
- Fire protection requirements are indicated.
- Energy performance requirements are specified.
- Structural and other performance requirements are included.
- If calculations are needed, these are usually by the fabricator. If “delegated design” is required, include the structural parameters in the Delegated Design Section.
- Check that all the glass types in the project are included in the spec.
- Check that there is a schedule at the end of the section.
- Sealants are included.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



□ 089119 - FIXED LOUVERS

- Coordinate with mechanical consultant for airflow requirements, if needed for the project.
- This section specifies extruded aluminum and formed metal louvers.
 - **Basis of Design Fabricator:** Construction Specialties. <https://www.c-sgroup.com/architectural-louvers>
- Single source responsibility for all louvers in the project.
- Field measurements requirement is included.
- Finish is included.
- Type of louver in the drawings matches the spec.
- Blank-off panels are included if used.
- **LEED PROJECTS:** Requirements and Submittals included at the beginning of the section.



END OF TECH-CHECK LIST