



SYSTEMS CATALOGUE

Precision takes shape.

Cold-formed steel

Design coordination.
Fabrication.
Delivery.

Commercial. Residential.
Built around your project.

CANADA + UNITED STATES

domadevelopment.ca



THE DOMA APPROACH

A clear path from vision to framing.

Doma Development brings commercial and residential construction experience to cold-formed steel. We help connect the project brief, design team, fabrication scope and delivery plan in one coordinated conversation.

01 Understand the project

Confirm the building, budget, site and intended use.

02 Define the package

Agree on the framing scope, drawings and responsibilities.

03 Coordinate delivery

Plan fabrication releases, logistics and site readiness.

INSIDE THE CATALOGUE

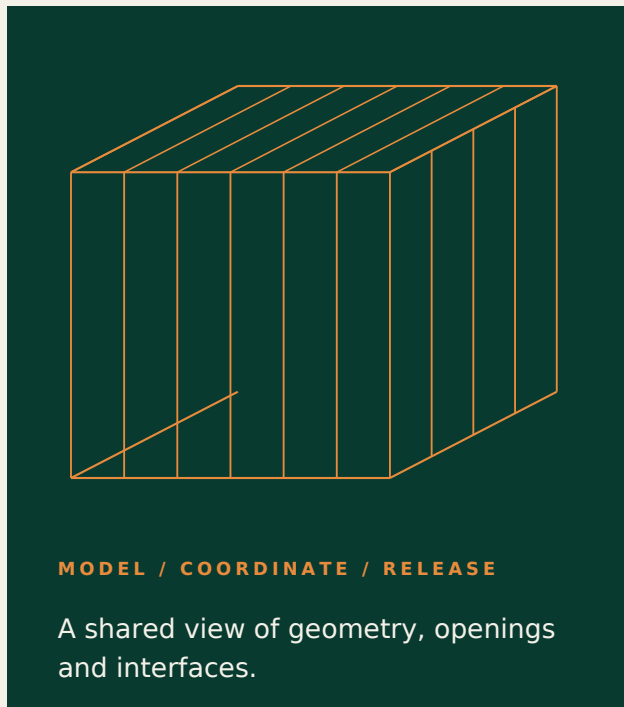
Design + BIM	03
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Performance + framing	07-09
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Delivery + sustainability	14-15

CFS = cold-formed steel. LSF = light steel framing. Product selection and engineering are specific to each project.

DESIGN + BIM

Resolve the details. Then release the steel.

Coordinated information makes the transition from design intent to fabrication easier to manage.



01 Design coordination

Align architectural layouts with structural requirements and framing interfaces.

02 BIM + clash review

Resolve service routes, openings and connections before fabrication.

03 Shop drawings

Set out member references, panel layouts and assembly information.

04 Release control

Record approvals and revisions so fabrication follows the agreed drawing set.

The appointed design professionals establish structural requirements and approve project-specific details. Scope and deliverables are agreed at quotation.

THE SYSTEM / PRIMARY MEMBERS

Every member has a role.

A coordinated family of cold-formed steel elements for walls, floors and roofs.

**01 Studs**

Vertical wall members.

**02 Tracks**

Top and bottom wall channels.

**03 Joists**

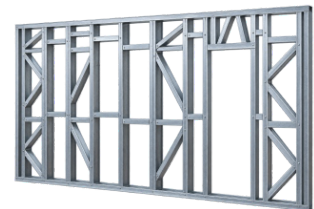
Floor and ceiling framing.

**04 Roof framing**

Rafters and roof trusses.

**05 Floor trusses**

Open-web framing units.

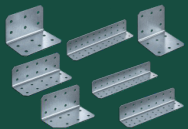
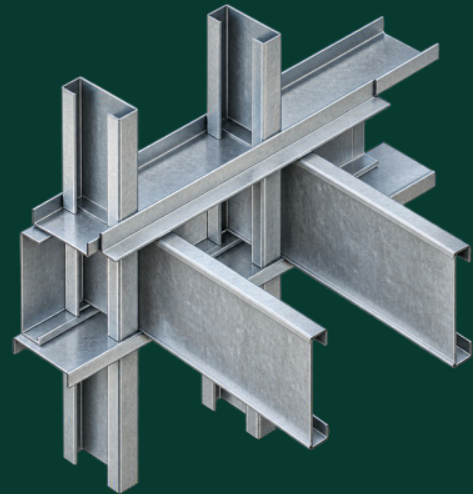
**06 Panelized frames**

Preassembled framing sections.

Illustrative component families. Member sizes, thicknesses, steel grades and quantities are specified for the project.

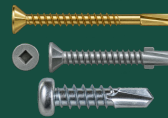
Small details. Complete systems.

Connection hardware, fasteners and service protection work with the framing to form a coordinated package.



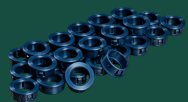
Connectors

Clips, brackets and ties selected for the connection.



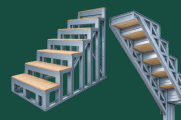
Fasteners

Screws matched to member thickness and loading.



Service protection

Grommets and edge protection where required.



Stair framing

Project-specific stair and landing components.

Connections, anchorage and penetrations follow approved drawings. Field modifications require review by the responsible design professional.

APPLICATIONS

One material. Many possibilities.



Commercial

Retail, offices and hospitality.

Coordinate fit-out, facade and service interfaces.

Multi-residential

Apartments and condominiums.

Coordinate repetitive layouts, fire and acoustic needs.

High-rise infill

Non-load-bearing walls and partitions.

Integrate with the primary structure and its movement.

Residential

Custom homes and infill.

Match the framing package to the architecture.

Institutional

Education, health and community spaces.

Develop the package around occupancy requirements.

Prefabricated

Panels and modular components.

Plan transport, lifting and assembly from the outset.

Applications shown are potential uses of CFS. Building height, loads, envelope design and jurisdiction determine suitability.

MATERIAL ADVANTAGES

Precision that supports better project decisions.

Evaluate the complete installed system: framing, assemblies, labour, logistics and long-term requirements.

CONSIDERATION	COLD-FORMED STEEL	WOOD FRAMING
Consistency	Manufactured profiles; no moisture-related shrinkage.	Moisture movement needs detailing.
Fire behaviour	Steel does not add fuel to a fire.	Wood is combustible; rated assemblies are available.
Durability	Resists termites and rot; coatings protect against corrosion.	Requires appropriate moisture and pest protection.
Site workflow	Panelization can reduce cutting and site assembly.	Can be site-built or prefabricated.
Project value	Compare engineered quantities and installed cost.	Compare the same scope and performance criteria.

Steel also moves with temperature. Cost, schedule, service life and environmental outcomes depend on the project. Technical references: p. 15.

Non-combustible steel. Thoughtfully designed assemblies.

CFS

**Does not
contribute
fuel to a
fire.**

An inherent material
property.

Fire resistance is an assembly property

Gypsum, insulation, connections and penetrations all affect performance.

Specify the complete tested system

Confirm the listing, supporting documents and permitted materials.

Coordinate continuity

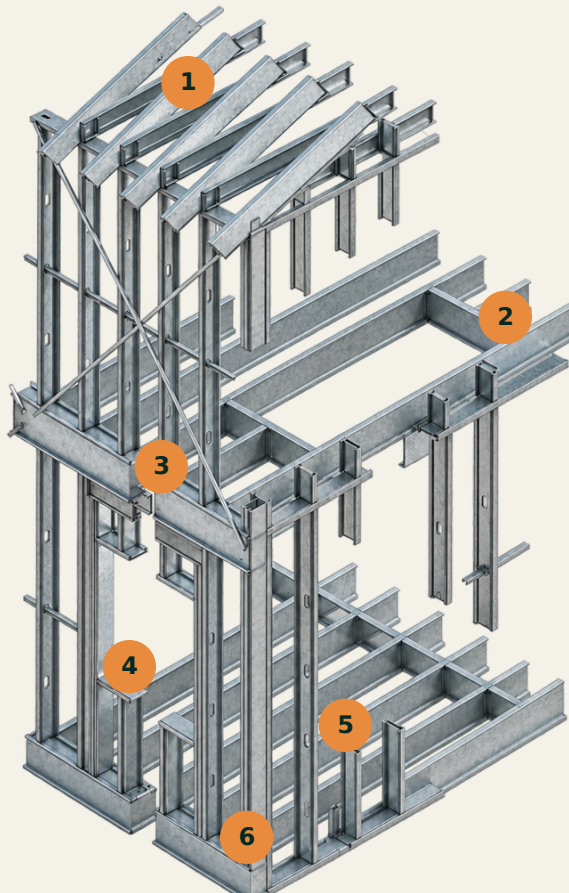
Resolve junctions between walls, floors and roofs with the design team.

Non-combustible does not mean fireproof. Steel loses strength at elevated temperatures. The completed building must meet the applicable fire and structural requirements.

SYSTEM ANATOMY

How the framing connects.

A typical platform arrangement, shown schematically.

**1 Roof framing**

Rafters or trusses.

2 Floor system

Joists and edge members.

3 Wall studs

Vertical framing.

4 Bracing

Stability and restraint.

5 Openings

Jamb, headers and sills.

6 Base + anchorage

Load transfer to supports.

Concept illustration only. Not an installation detail. Bridging, blocking, fasteners and load paths must follow the approved project design.

Specify thickness. Confirm the application.

MSG reference values used in the fire-assembly guide. Minimum bare metal thickness excludes protective coatings.

Non-load-bearing steel studs

MSG	MIN. THICKNESS (in.)
25	0.0179
22	0.0269
20	0.0329
18	0.0428
16	0.0538

Load-bearing steel studs

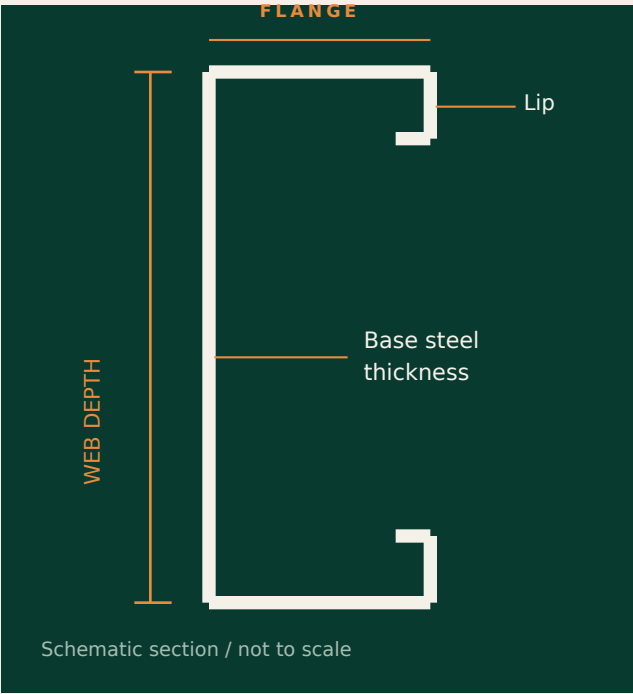
MSG	MIN. THICKNESS (in.)
20	0.0329
18	0.0428
16	0.0538
14	0.0677

Order against the specified thickness, grade and section designation.

Source: SFIA Fire & Acoustic Guide, January 2025, Notes p. iv. Gauge references do not replace product data or establish structural capacity. See reference 1 on p. 15.

Read the section.

Member geometry and steel thickness work together. Confirm all dimensions on the approved submittal.



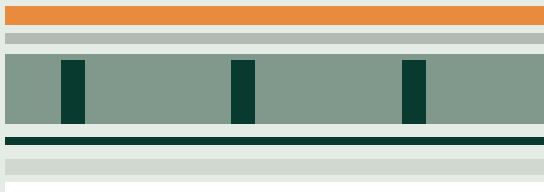
WEB DEPTH	TYPICAL USE
3-5/8 in. / 92 mm	Studs
6 in. / 152 mm	Studs, headers, joists
8 in. / 203 mm	Joists, headers, lintels
10 in. / 254 mm	Joists and headers
12 in. / 305 mm	Joists and headers

Common nominal depths shown for orientation. Flange size, lip, thickness, spacing and steel grade remain project-specific.

These dimensions are not a stock list, load table or span recommendation. Confirm availability and engineered selection with the project team.

Design the whole assembly.

Floor and roof systems combine framing with sheathing, insulation and protective linings. Performance belongs to the specified assembly.



A coordinated build-up

Structure, acoustics, fire protection and services must be resolved together.

Published reference examples

REFERENCE	FIRE RESULT	STC
NRCC RR-184 / FF50	63 min	51
NRCC RR-184 / FF40	75 min	62
UL P526 - proprietary truss	1 h / 1.5 h	Not listed

Reference index only; diagram is not a rated assembly. NRC figures are reported test endurance. UL results depend on the listed configuration. Review complete source documents and local acceptance before use. Reference 1, pp. 15-16 and 163.

Walls with a defined purpose.

Select load-bearing and non-load-bearing systems around the structural, fire and acoustic requirements.

Load-bearing reference examples

REFERENCE	FIRE RATING	STC
UL U487 / BXUV7	1 h	<50*
UL U490 / BXUV7	3 h / 4 h	<50*
UL V458 / BXUV7	45 min	Not listed

Non-load-bearing reference examples

REFERENCE	FIRE RATING	STC
GA WP1041 / ASL AS-TL1510	1 h	50-54
UL U411 / NRC TL-93-037	2 h	55**
FM Wall 1 / USG810519	1 h	40

*Estimated STC in the guide. **U411: 2.5 in. glass-fibre insulation configuration. Listings are not Doma certifications. Use full tested details and confirm current listing and jurisdictional acceptance. Reference 1, pp. 85, 128, 130, 151 and 153.

FABRICATION + DELIVERY

Prepared for the build. Planned for the journey.



CANADIAN FABRICATION / CANADA + U.S. DELIVERY

Organize

Label components and group loads by the installation sequence.

Protect

Confirm packaging, handling requirements and transport restraints.

Coordinate

Align delivery windows, site access, unloading and staging.

U.S. office: Seattle. Freight, lead times and cross-border documentation are confirmed for each order. Supply and installation responsibilities are defined in the agreed scope.

RESPONSIBLE SPECIFICATION

Plan for value. Document performance.

Steel is recyclable. Efficient detailing and controlled fabrication can reduce offcuts and site waste. Environmental comparisons should use the selected product, its EPD coverage and the whole building design.

START WITH A CLEAR PROJECT BRIEF

Share the location, architectural and structural drawings, framing scope, performance targets, delivery requirements and preferred construction schedule.

TECHNICAL READING

- 1 SFIA / CFSEI - Fire & Acoustic Guide (January 2025)
- 2 SFIA - Durability of cold-formed steel
- 3 SFIA - Steel non-combustibility and fire safety
- 4 SFIA - Continuity of fire resistance (F101-25)
- 5 SFIA - Environmental Product Declaration overview

References support general material information; they do not establish Doma product certification or EPD coverage. Images and diagrams are illustrative. Final specifications, approvals and assembly listings govern.



YOUR NEXT PROJECT

Let us help shape what comes next.

Bring us your plans.
We will help define the next step.

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