

ROLLED IN BARRIE, ONTARIO
SECTIONS • GAUGES • FINISHES



Cold-Formed Steel Product Data

The sections, gauges and finishes EBS Global actually produces, rolled on our own line at 220 John Street. Published so a section can be checked against a specification without a phone call.

DESIGN BASIS

NBCC 2020 • CSA S136-20

REVISION

Rev. 2026-09 • Issued 25 September 2026

SCOPE

Dimensional and finish data



01 • WHAT WE ROLL

Design basis, gauges and section geometry

Every EBS system is designed to the same two Canadian standards. Load, span and limiting-height tables are not published in this document; request project-specific values from EBS.

DESIGN BASIS

STANDARD	GOVERNS	AUTHORITY
NBCC 2020	Building-code compliance, Limit States Design	National Research Council Canada
CSA S136-20	Cold-formed steel structural design, Limit States Design	CSA Group

EBS asserts design conformance to these two standards. Steel is galvanized (a finish, listed per line) and non-combustible (a material property); neither is presented as a tested or certified standard.

GAUGE, THICKNESS AND SHOP COLOUR CODE

 25 GA 0.018 in 0.45 mm #8194AB	 20 GA 0.033 in 0.88 mm #FFFFFF	 18 GA 0.043 in 1.09 mm #F3D000	 16 GA 0.054 in 1.44 mm #4F9E44	 14 GA 0.068 in 1.81 mm #E2902B	 12 GA 0.097 in 2.46 mm #D23F2C
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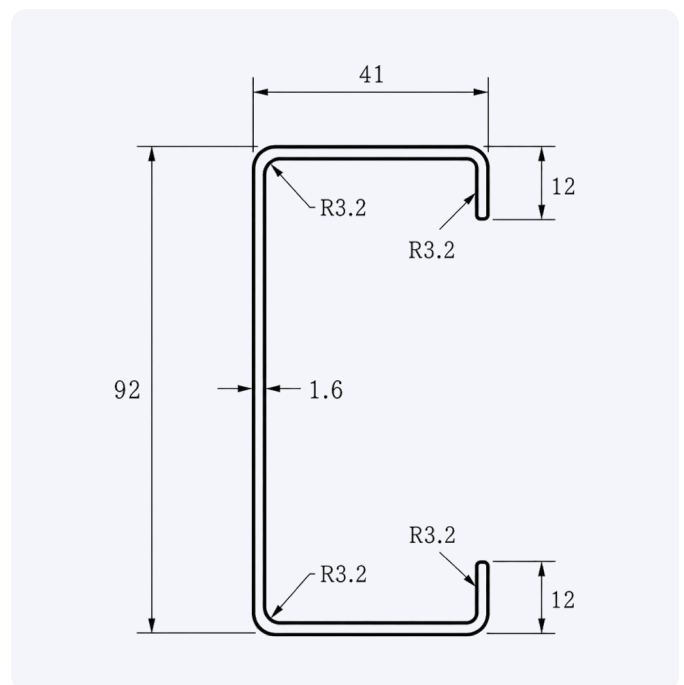
Six gauges, thinnest to thickest. Colour is the shop-floor code from the production chart; thickness is nominal.

SECTION GEOMETRY

WEB DEPTH	FLANGE	RETURN LIP	GAUGES ROLLED
3 $\frac{3}{8}$ "	1.63"	0.81"	20, 18
6"	1.63" / 2.5"	0.81" / 1.25"	18, 16, 14, 12
8"	1.63" / 2.5"	0.81" / 1.25"	18, 16, 14, 12
10"	1.63" / 2.5"	0.81" / 1.25"	18, 16, 14, 12
12"	1.63" / 2.5"	0.81" / 1.25"	18, 16, 14, 12

Flange 1.63" (41.3 mm) carries a 0.81" (20.6 mm) return lip; flange 2.5" (63.5 mm) carries 1.25" (31.8 mm). Five web depths, two flange widths.

TYPICAL C-SECTION, MM



EBS engineering section for the 92 mm (3 $\frac{3}{8}$ ") stud: 41 mm flange, 12 mm return lip, 1.6 mm material, R3.2 corners. Other web depths follow the same geometry.

HOW TO SPECIFY

Web × flange × gauge

Quote the three dimensions and the finish. Non-standard lengths, gauges or punching are a scheduling question, not a sourcing one: the line is ours.

EXAMPLE

6" • 1.63" • 16 ga

02 • PRODUCTION DATA

Developed coil width by section and gauge

The flat strip width consumed to roll each section, per gauge, in inches over millimetres. Production figures from the EBS section table; use them for weight and material take-offs.

WEB	FLANGE	LIP	20 GA	18 GA	16 GA	14 GA	12 GA
3 5/8"	1.63"	0.81"	7.55 191.8	7.50 190.5	–	–	–
6"	1.63"	0.81"	–	9.80 248.9	9.75 247.6	9.69 246.1	9.57 243.1
	2.5"	1.25"	–	12.05 306	11.98 304.3	11.93 303	11.87 301.5
8"	1.63"	0.81"	–	11.81 300.0	11.75 298.5	11.69 296.9	11.57 293.9
	2.5"	1.25"	–	14.06 357.1	14.02 356	13.9 353	13.82 351
10"	1.63"	0.81"	–	13.82 351.0	13.74 349.0	13.66 347.0	13.58 344.9
	2.5"	1.25"	–	16.06 408	15.98 406	15.91 404	15.83 402
12"	1.63"	0.81"	–	15.83 402.1	15.75 400.1	15.71 399.0	15.59 396.0
	2.5"	1.25"	–	18.07 459	17.98 457	17.91 455	17.83 453

Developed width is the strip width before forming. A dash means there is no entry for that section in that gauge. 25 ga appears on the gauge chart but has no entry in the section table.



FINISHED SECTIONS

Bundled, tagged and staged for dispatch

Sections leave the line cut to length, bundled and staged for dispatch in the order the site needs them.

Photograph: EBS Global plant, Barrie, Ontario.

03 • PRODUCT LINES

Product lines, framing through envelope



Wall panel, plant-built, lifted to the frame.

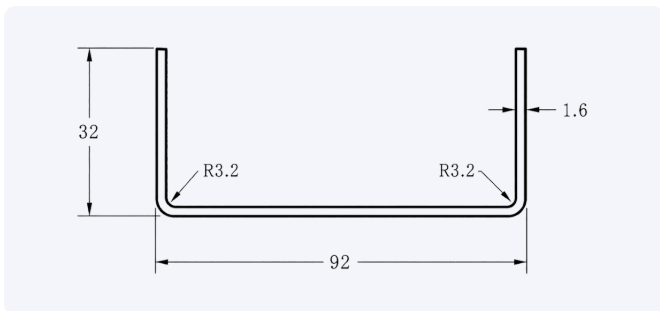
01 FLAGSHIP SYSTEM

Prefabricated Panels

Engineered cold-formed steel wall systems, built in our plant.

Wall gauge	12–25 ga load + non-load-bearing
Truss gauge	12 ga long clear spans
Truss spacing	2'-0" or 4'-0" o.c. floor truss
Floor system	205 mm / 8" deep, 9 m / 30 ft span hollowcore concrete plank
Floor rating	2-hour fire, STC 55 hollowcore concrete plank

APPLICATIONS Mid-rise multi-family • Commercial mid-rise • Modular residential & education • Post-disaster reconstruction



Typical U-track • 92 web • 32 flange • 1.6 mm

03 FRAMING MEMBER

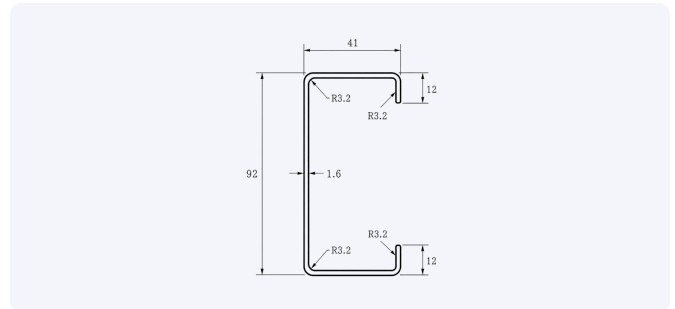
Metal Track

Top and bottom track to anchor stud framing.

Profile	T or U-channel
Gauge range	12–25 ga
Finish	Galvanized
Pairs with	Metal Studs

APPLICATIONS Floor and ceiling track • Top of slab • Door and window framing

Each line with its engineering section, quick-reference specification and typical applications. Drawings show the typical section in millimetres; other web depths follow the geometry on page 2.



Typical C-section • 92 web • 41 flange • 12 lip • 1.6 mm

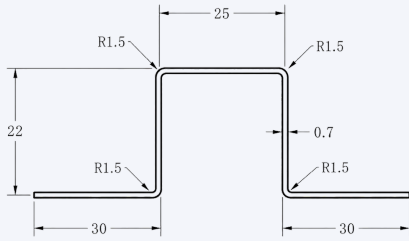
02 FRAMING MEMBER

Metal Studs

Cold-formed steel C-studs for load and non-load-bearing walls.

Profile	C-section / U-channel
Gauge range	12–25 ga
Finish	Galvanized
Use	Load + non-load-bearing

APPLICATIONS Interior partitions • Exterior load-bearing walls • Ceilings and soffits • High-rise residential, commercial, industrial



Hat section • 25 crown • 22 deep • 30 flanges • 0.7 mm

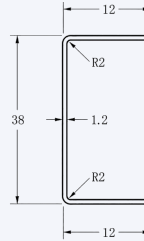
04 FINISHING MEMBER

Furring Channels

Hat-shaped channels for level finishes over uneven walls.

Profile	Hat / F-shape
Use	Wall + ceiling finishing
Finish	Galvanized
Installs over	CMU, concrete, framing

APPLICATIONS Drywall over masonry / concrete • Insulation cavity creation • Acoustic treatment • Renovation over uneven walls



U-channel • 38 web • 12 flanges • 1.2 mm

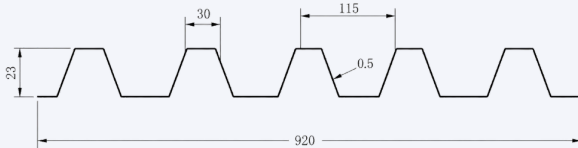
05 CEILING SYSTEM

Carrying Channels

Primary support members for suspended ceiling grids.

Profile	U-channel
Use	Primary ceiling support
Finish	Galvanized
Pairs with	Furring Channels

APPLICATIONS Acoustic tile ceilings • Gypsum board ceilings • Architectural soffits • Panel ceiling systems



Trapezoidal sheet • 920 cover • 23 rib • 0.5 mm

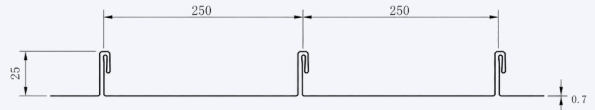
06 ROOFING SYSTEM

Metal Roof Sheets

Profiled roofing in three configurations.

Profiles	Corrugated • Standing seam • Shingle
Materials	Steel • Aluminum • Copper
Finish	Pre-painted / coated
Application	Residential + commercial

APPLICATIONS Pitched residential roofs • Industrial / agricultural buildings • Modern commercial architecture • Warehouse and storage structures



Standing-seam panel • 250 module • 25 seam • 0.7 mm

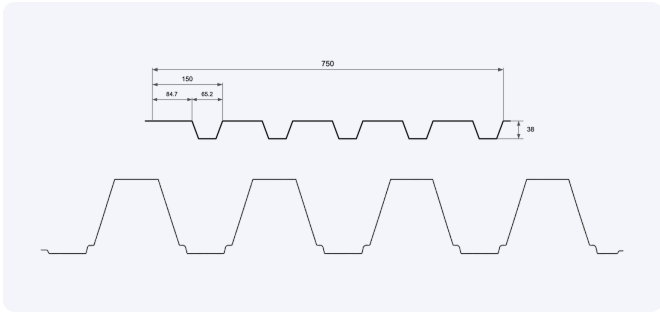
07 ENVELOPE SYSTEM

Metal Wall Cladding

Cold-formed steel cladding, 250 mm module at 0.7 mm.

Material	Cold-formed steel
Profiles	Profiled / formed / flat
Finish	Pre-painted / coated
Module	250 mm panel 25 mm seam
Colours	Range of finishes and colours confirm with EBS

APPLICATIONS Commercial facades • Industrial envelopes • Residential accent walls • Rainscreen systems



B-Deck 38 mm rib (top) • N-Deck 76 mm rib

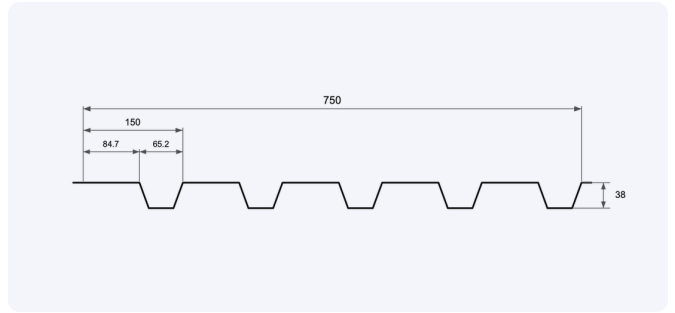
08 STRUCTURAL DECKING

Roof Deck

B-Deck and N-Deck for commercial roof and floor systems.

Profiles	B-Deck • N-Deck
Use	Structural roof + floor decking
Finish	G90 or light zinc coat A25
Pairs with	Insulation + membrane

APPLICATIONS Commercial flat roofs • Institutional roofs • Industrial buildings • Mixed-use mid-rise



750 cover • 150 pitch • 38 rib

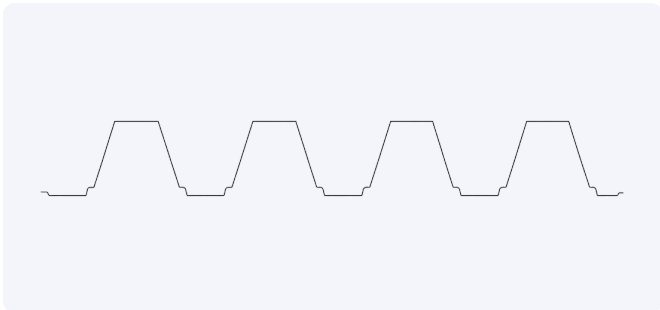
09 ROOF DECK VARIANT

B-Deck (1.5")

1.5" rib profile for standard commercial roof and floor decks.

Rib depth	1.5 in / 38 mm
Gauge range	16, 18, 20, 22 ga
Use	Roof + light floor deck
Finish	Galvanized G90 or zinc A25
Span class	Low- to mid-rise
Lengths	Custom

APPLICATIONS Roofing systems • Light composite floors • Mezzanine systems • Retrofit projects



76 mm rib • long-span structural deck

10 ROOF DECK VARIANT

N-Deck (3")

3" deep profile for long spans and heavy-load decking.

Rib depth	3 in / 76 mm
Gauge range	16, 18, 20, 22 ga
Use	Long-span structural deck
Finish	Galvanized G90 or zinc A25
Span class	High-rise + industrial
Lengths	Custom

APPLICATIONS High-rise buildings • Warehouses + industrial • Mezzanines and bridge decks • Heavy-load floors

04 • SPECIFYING EBS SECTIONS

Three things to put on the drawing

1

Section

Web depth × flange × gauge, for example **6" • 1.63" • 16 ga.** Web depths, flanges and the gauges rolled for each are on page 2; developed coil widths on page 3.

2

Finish

As listed per line on pages 4 to 6: galvanized for framing, G90 or light zinc coat A25 for deck, pre-painted or coated for roofing and cladding. Colour options: ask EBS for the current range.

3

Anything not listed

Lengths, punching, gauges or profiles outside this sheet: ask. The line is our own, so a non-standard run is a scheduling question rather than a sourcing one.

PLANT AND OFFICE

EBS Global

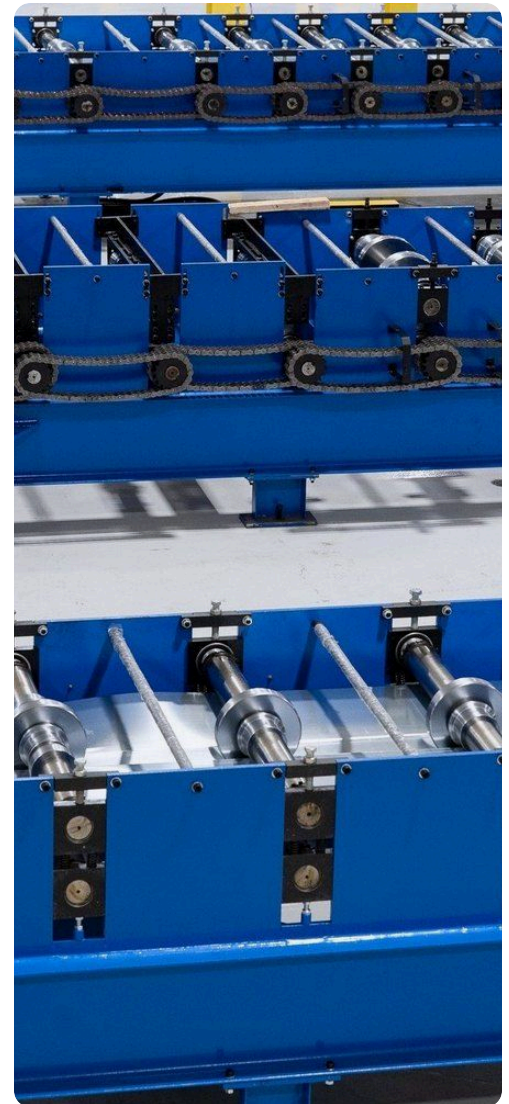
Engineered Building Systems Corp.
220 John Street
Barrie, Ontario, Canada

TALK TO THE PLANT

(647) 812-0253

info@ebsglobal.ca
ebsglobal.ca
@ebsglobalcorp

Data current at the issue date shown and subject to change; confirm with EBS before use in a tender. This document contains dimensional and finish data only. Design conformance to NBCC 2020 and CSA S136-20 is asserted by EBS; load, span and limiting-height values are provided per project. Rev. 2026-09.



The roll-forming line at 220 John Street. Coil arrives at one door; finished sections leave from the other. Plant tours by appointment.