

EBS Global
Engineered Building Systems Corp.

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. 2026-10 • Issued 14 October 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	20 GA	18 GA	16 GA	14 GA	12 GA
0.018 in 0.45 mm	**0.033 in** 0.88 mm	**0.043 in** 1.09 mm	**0.054 in** 1.44 mm	**0.068 in** 1.81 mm	**0.097 in** 2.46 mm
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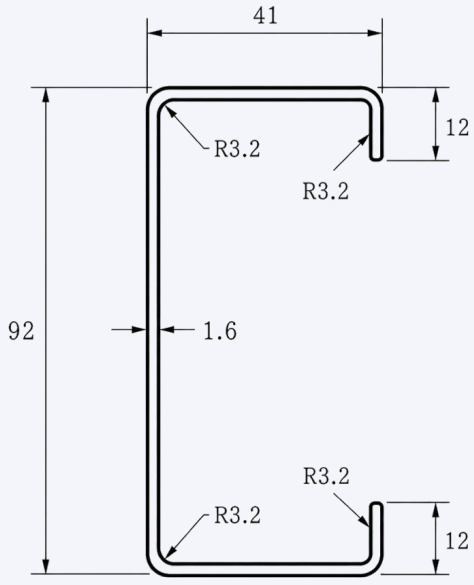
Six gauges, thinnest to thickest. Colour is the shop-floor code from the production chart; thickness is nominal.

SECTION GEOMETRY

WEB DEPTH	FLANGE	RETURN LIP	GAUGES ROLLED
3⅝"	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 (3⅝") 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
3⅝"	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

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.



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

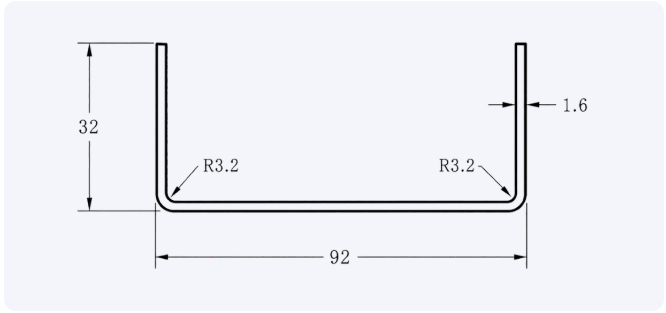
01 FLAGSHIP SYSTEM

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

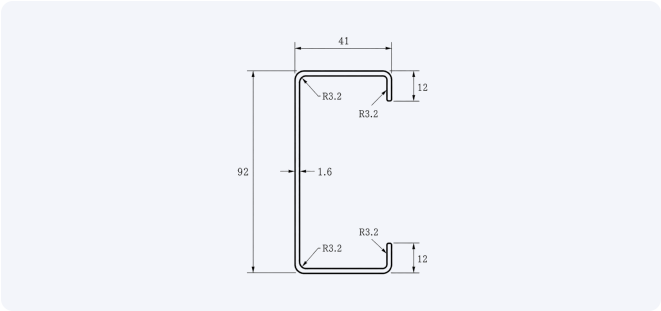
03 FRAMING MEMBER

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



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

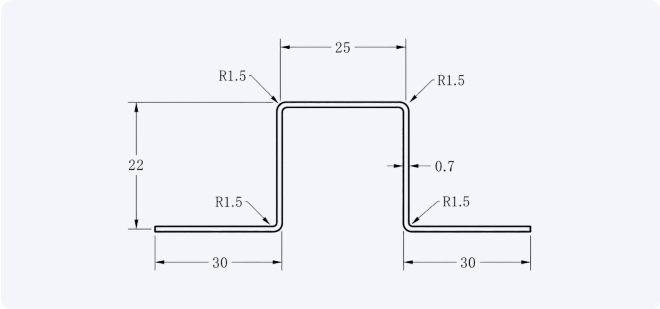
02 FRAMING MEMBER

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

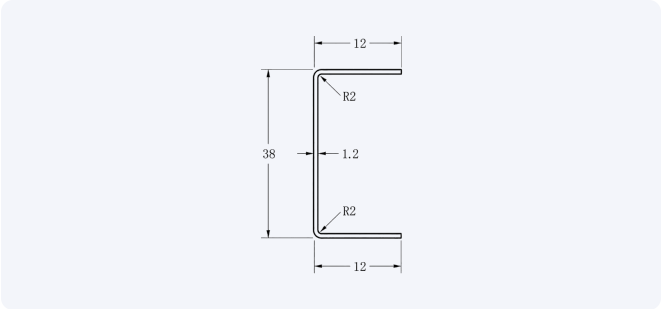
04 FINISHING MEMBER

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

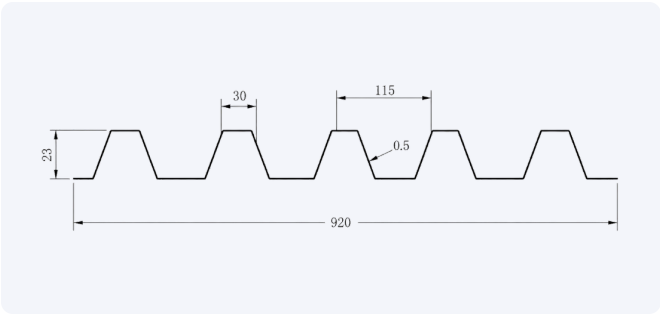
05 CEILING SYSTEM

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

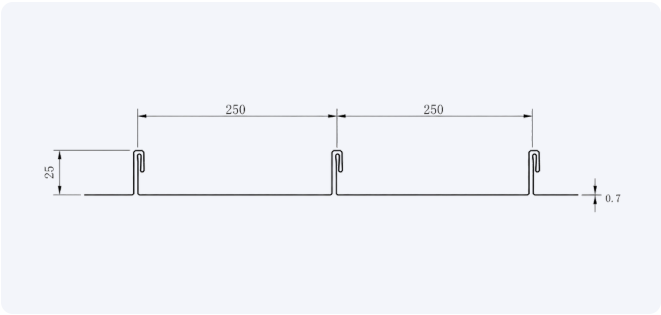
06 ROOFING SYSTEM

Metal Roof Sheets

Profiled roofing in three configurations.

Profiles	**Corrugated • Standing seam • Shingle**
Material	**Steel**
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

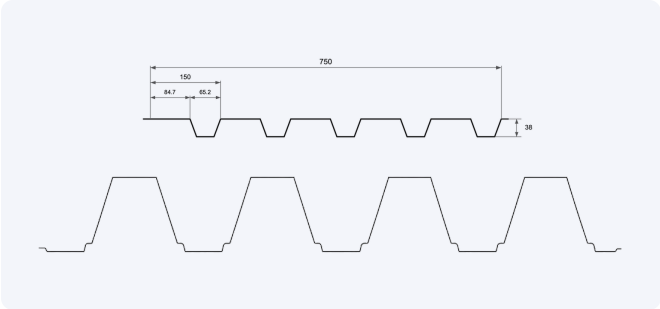
07 ENVELOPE SYSTEM

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

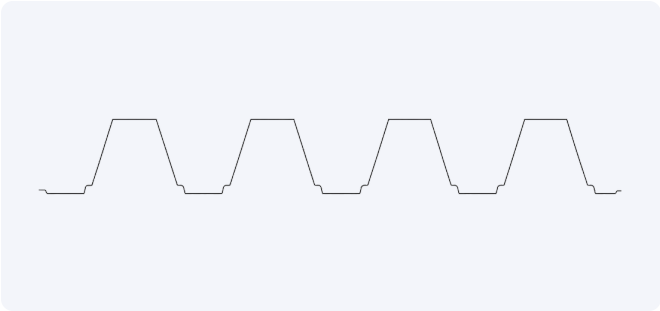
08 STRUCTURAL DECKING

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



76 mm rib • long-span structural deck

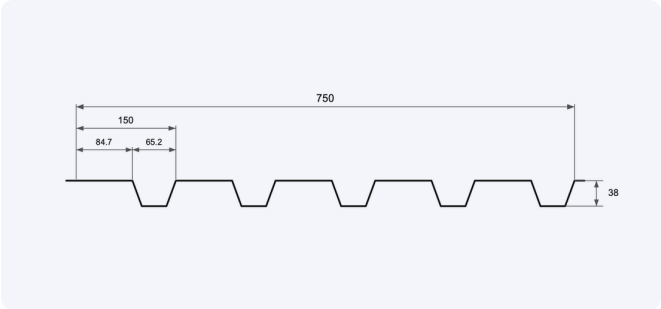
10 ROOF DECK VARIANT

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



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

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

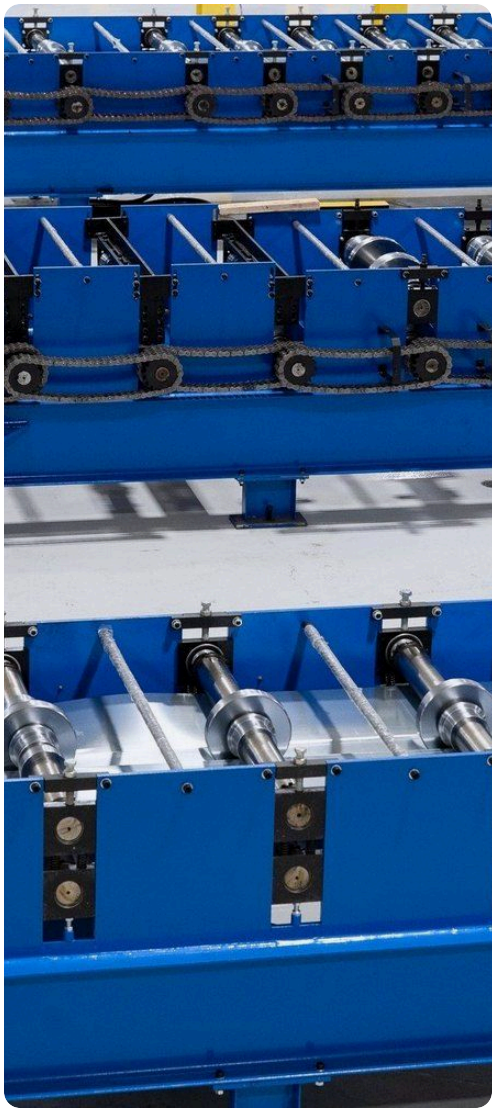
Engineered Building Systems Corp.
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TALK TO THE PLANT

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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. 2026-10.



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