

Introduction to Cold Formed Steel

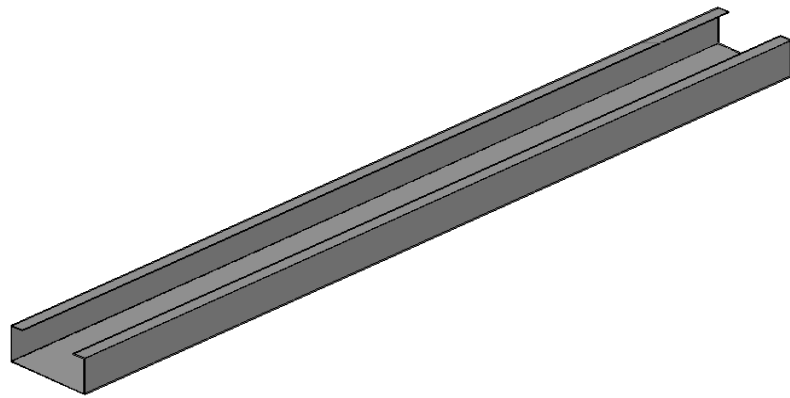
1.1 INTRODUCTION TO CFS

- Cold-formed steel (CFS) is type of steel fabricated by cold forming process.
- CFS members have been used in buildings, bridges, storage racks, grain bins, car bodies, railway coaches, highway products, transmission towers, transmission poles, drainage facilities, various types of equipment and others.
- These types of sections are cold-formed from steel sheet, strip, plate, or flat bar in roll forming machines or by press brake (machine press) or bending operations.

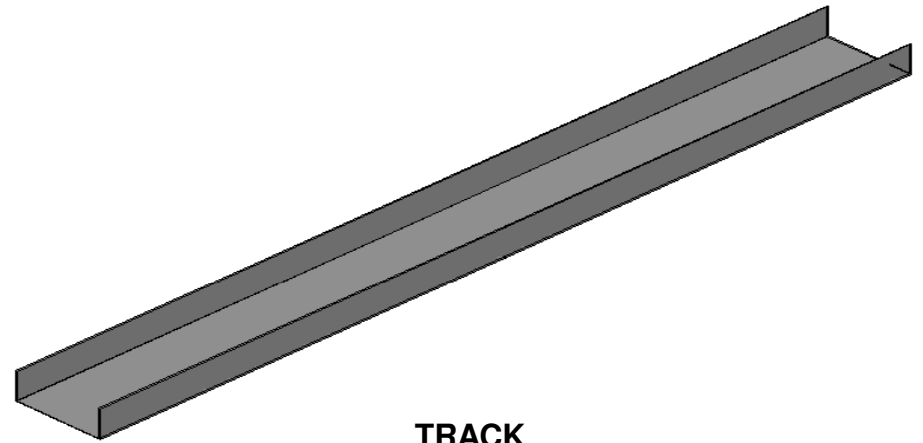
1.2 ADVANTAGES OF CFS

- Lightness in weight
- High strength and stiffness
- Ease of prefabrication and mass production
- Fast and easy erection and installation
- Substantial elimination of delays due to weather
- More accurate detailing
- Non shrinking and non creeping at ambient temperatures
- No formwork needed
- Termite-proof and rot proof
- Uniform quality
- Economy in transportation and handling
- Non combustibility
- Recyclable material
- Panels and decks can provide enclosed cells for conduits.

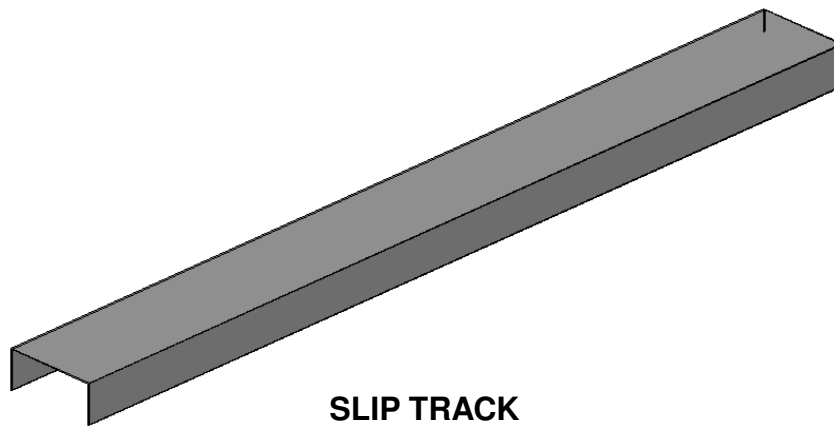
1.3 PRODUCTS OF CFS



C STUDS

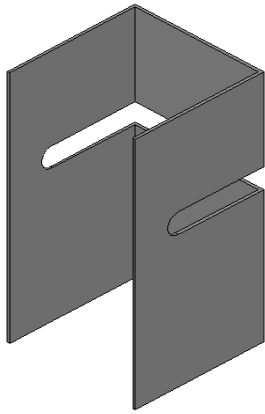


TRACK

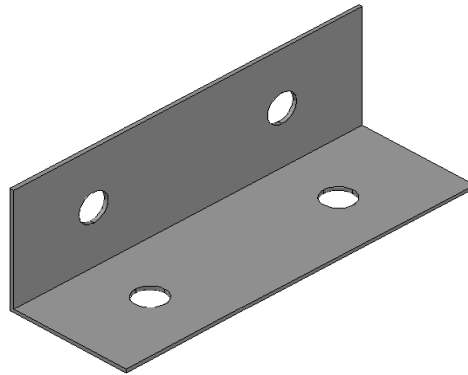


SLIP TRACK

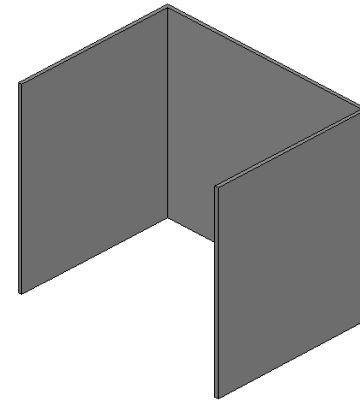
1.4 ACCESSORIES OF CFS



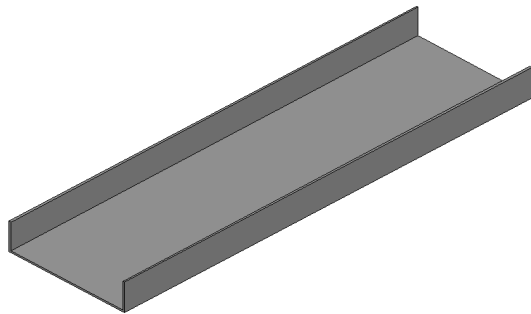
SLIDE CLIP



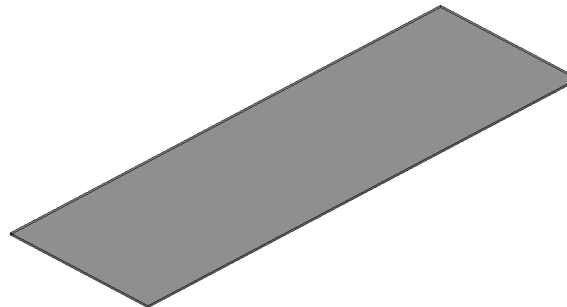
CLIP ANGLE



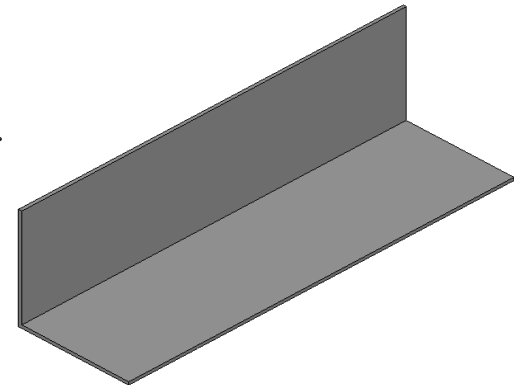
WEB STIFFENER



U CHANNEL

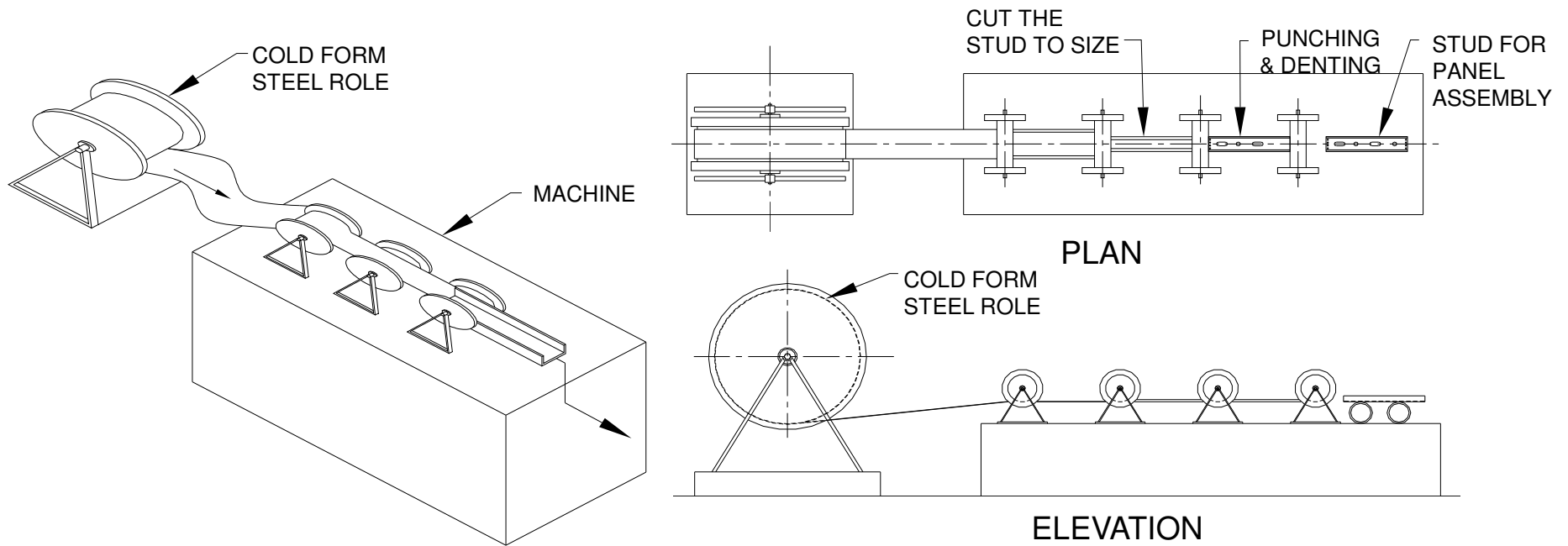


FLAT STRAP

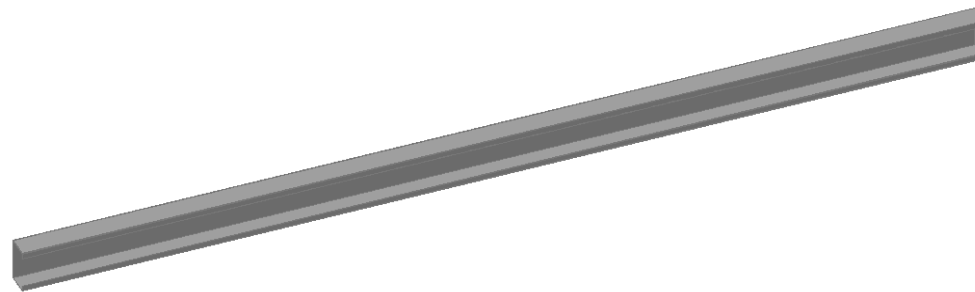


ANGLE

1.5 METHOD OF MANUFACTURING CFS

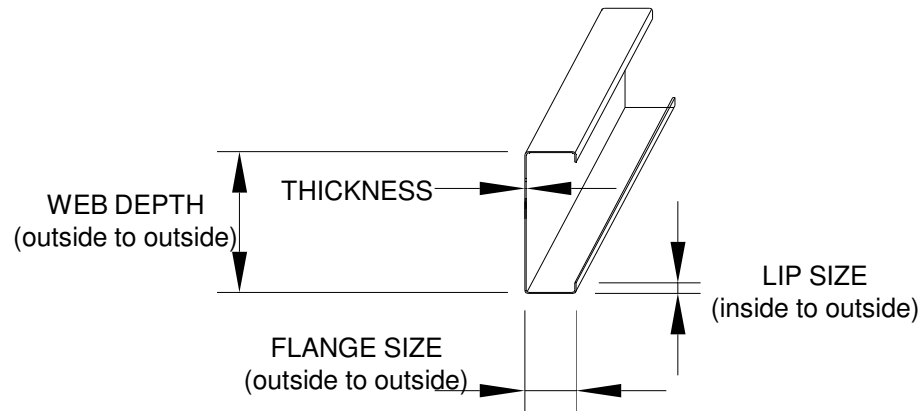


COLD FORMED STEEL SECTION PRODUCTION PROCESS DIAGRAM

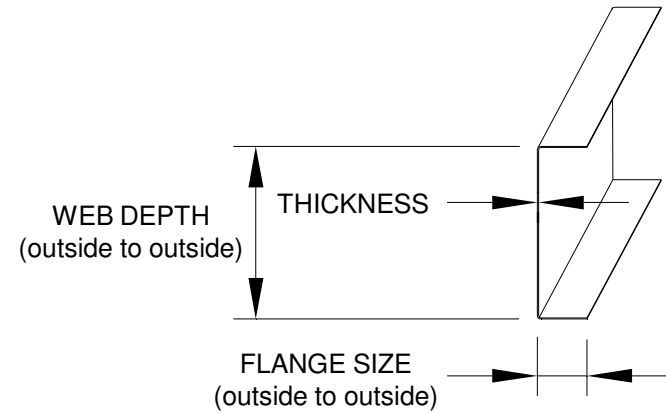


FINAL PRODECT OF CFS STUD

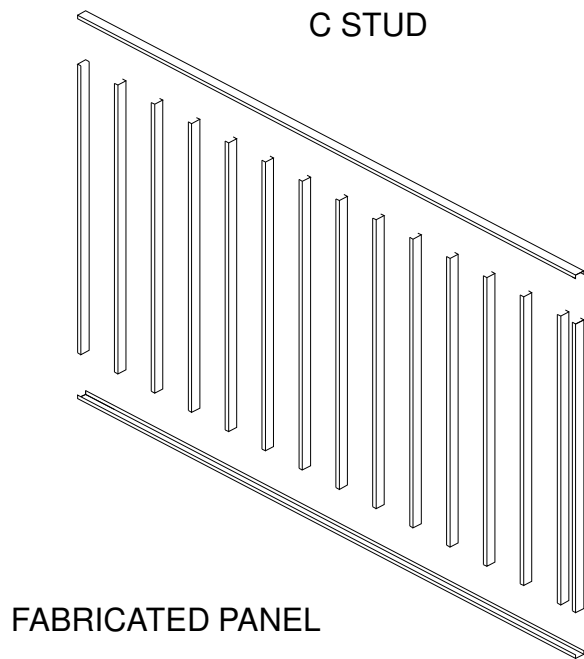
1.5 METHOD OF MANUFACTURING CFS (CONTINUED..)



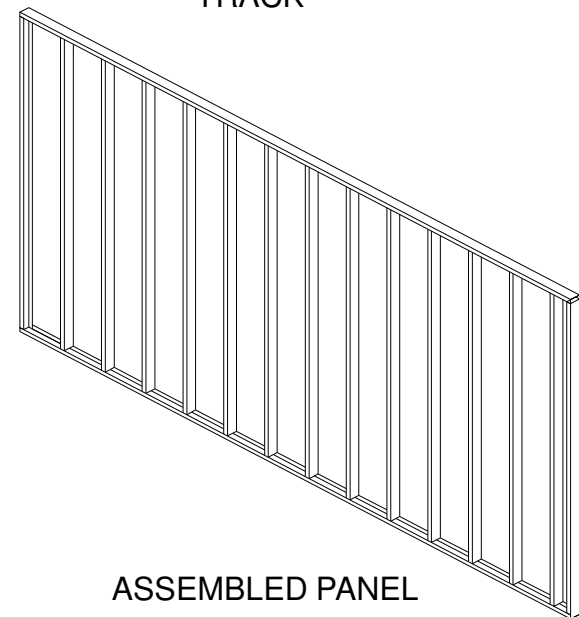
C STUD



TRACK

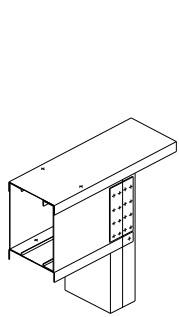


FABRICATED PANEL

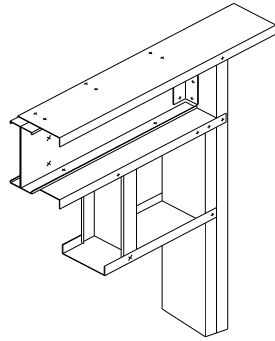


ASSEMBLED PANEL

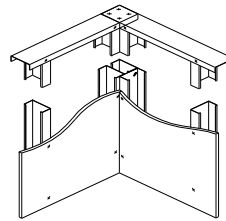
1.6 INTRODUCTION TO CFS STUD WALL SYSTEM



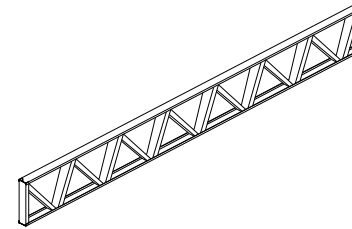
BOX HEADER
(W10,W11)



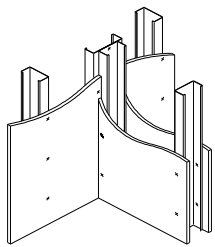
BACK-TO-BACK
HEADER (W12,W13)



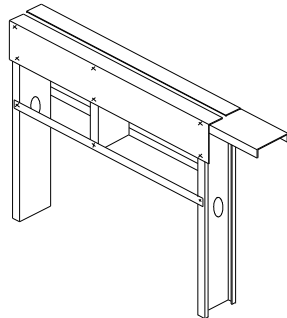
CORNER (W29)



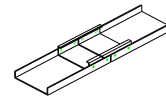
EXTERIOR CORNER
(PLAN VIEW)



INTERIOR CORNER



L-HEADER (W14-W16)



1.7 INTRODUCTION TO CFS ROOF SYSTEM

