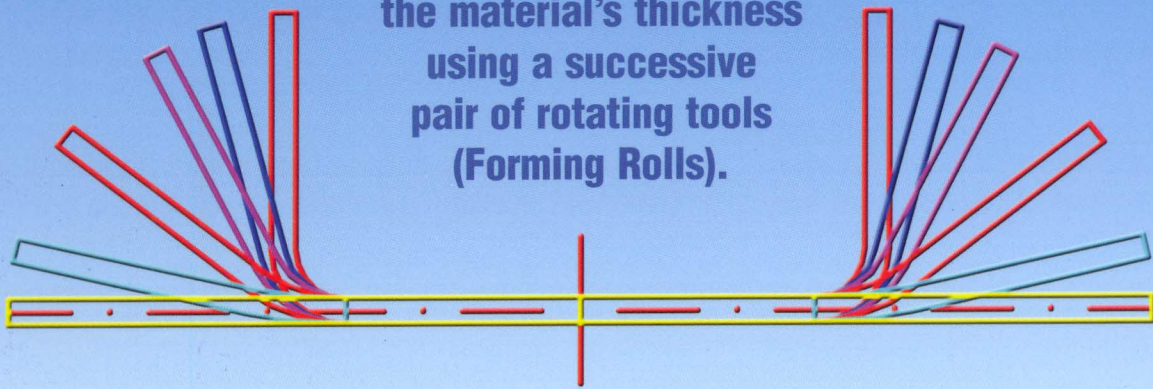


# PRODUCT CATALOGUE

**Cold Roll Forming is usually described as a continuous process of bending metals in a straight line without changing the material's thickness using a successive pair of rotating tools (Forming Rolls).**



***Pennar***

**PENNAR INDUSTRIES LIMITED**  
(An ISO 9001:2000 Certified Company)

**Cold Roll Formed Sections Division**

April 2008



Eco-friendly Pennar unit at Patancheru, near Hyderabad



Pennar Unit at Isnapur, near Hyderabad



Factory at Tarapur, Maharashtra



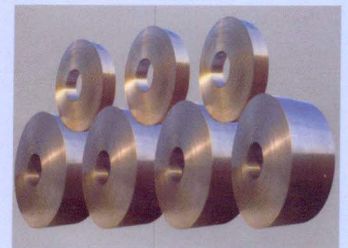
**PENNAR INDUSTRIES LIMITED** an ISO 9001:2000 accredited company had its beginnings in 1987, in the form of Pennar Steels Limited as a stand alone cold rolling unit, and has since evolved into a multi product , multi locational (at Patancheru, Isnapur, Tarapur and Chennai) enterprise.

Endowed with a large reservoir of loyal and dedicated work force, the Group enjoys the complete satisfaction of its customers spread over diverse Industries. A strategic decision was taken in 1998 to merge NSL Limited formerly known as Nagarjuna Steels Ltd into Pennar Steels Ltd. The combined entity now called "Pennar Industries Limited" has emerged as the undisputed leader in its line of business.

PIL is primarily in the following business areas:

### 1. COLD ROLLED STEEL STRIPS (CRSS)

The CRSS division with its units at Isnapur and Patancheru has a combined annual cold rolling capacity of 120,000 Metric Tons. This division manufactures steel strips upto 720mm width and 0.25 to 5.0 mm thickness, both in Coil and Sheet form. The division caters to a variety of customers from the automobile, automotive components, consumer durable goods, bearings and general engineering industries.



### 2. COLD ROLL FORMED SECTIONS (CRFS)

This division manufactures a wide range of sections from simple angles to complex collecting electrodes, precisely profiled to close tolerances using types of raw material such as mild steel, structural steel in St-42/ 52 grades, corten steel, stainless steel, pre-galvanised steel, pre-colour coated steel and aluminium for a variety of applications. Profiles with a thickness range of 0.3mm to 8.00mm and widths upto 1400mm are manufactured.

CRFS Division mainly caters the Requirement of following Segments

- a. Panels & Sections for Automobile (Bus / LCV Segments)
- b. Sections for Railway Coaches & Wagons
- c. Collecting and Discharge Electrodes for Electro Static Precipitators
- d. Primary & Secondary Members for Industrial Buildings.
- e. Metal Crash Barriers for Road Safety Systems
- f. Fabrication of ESP Structures, Industrial Buildings & Rail Coach Products.



### 3. ENGINEERING COMPONENTS

The Engineering Components Division a part of Pennar Industries Limited is a forward integration endeavor committed to providing more value added quality products and services to the customers.

This Division has been supplying various Pressed Steel Components for the following sectors

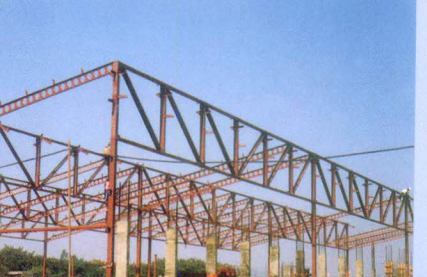
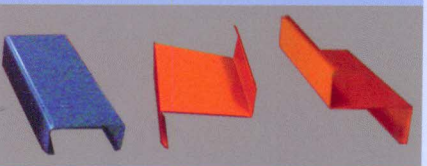
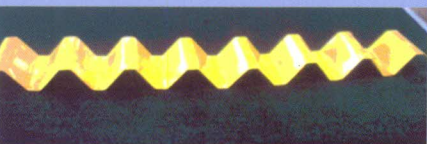
- a. Refrigeration / White Goods
- b. Automobile
- c. General Engineering
- d. Office Furnishing Components



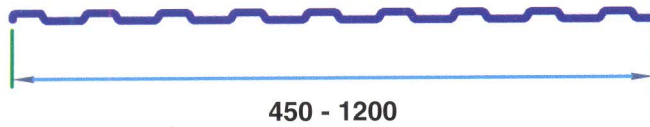
### 4. ERW PRECISION TUBES

PIL has now strengthened its presence in the steel Products market by manufacturing precision tubes to serve Automobile, Electrical (Transformer Cooling Tubes), Furniture, Construction and General Engineering sectors.

Precision tubes are manufactured in round, square and rectangular cross sections to close dimensional tolerances as per ASTM and IS standards. Tubes are also manufactured as per specific customer requirements.



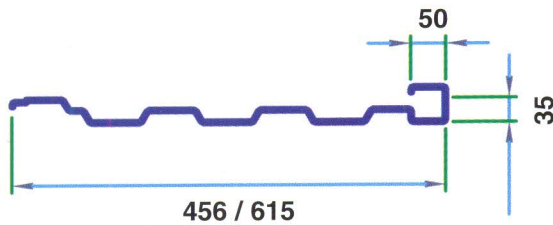
## 112 Pitch Panel (PIL-100/001)



Thickness  
1.0mm -1.6mm

Material  
CR

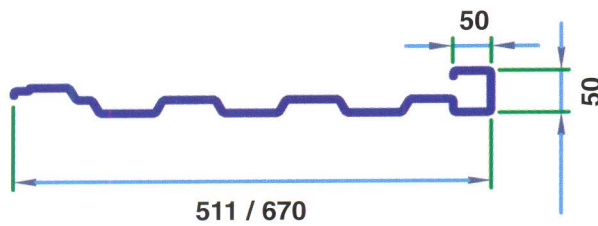
## Side & Rear Panel (PIL-100/002)



Thickness  
1.25mm & 1.6mm

Material  
CR

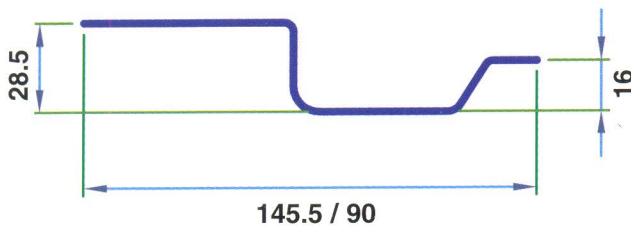
## Front Panel (PIL-100/003)



Thickness  
1.25mm & 1.6mm

Material  
CR

## Profile Front & Bottom (PIL-100/004)

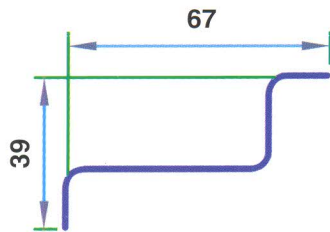


Thickness  
1.25mm & 1.6mm

Material  
CR

# Auto Segment

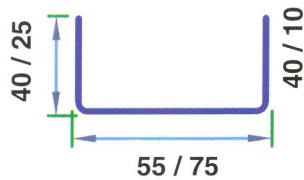
## Reinforcement Side (PIL-100/005)



Thickness  
1.0mm -1.6mm

Material  
CR

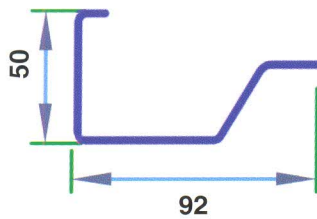
## End Cover Side and Load Guard Channel (PIL-100/006)



Thickness  
1.25mm

Material  
CR

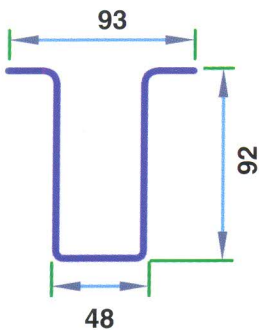
## Top Support (PIL-100/007)



Thickness  
1.25mm & 1.6mm

Material  
CR

## 92 x 48 Top Hat (PIL-100/008)



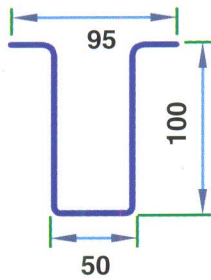
Thickness  
2.5mm

Material  
HR



# Auto Segment

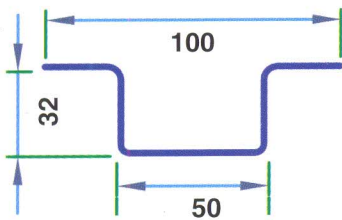
## 100 x 50 Top Hat (PIL-100/009)



Thickness  
2.5mm

Material  
HR

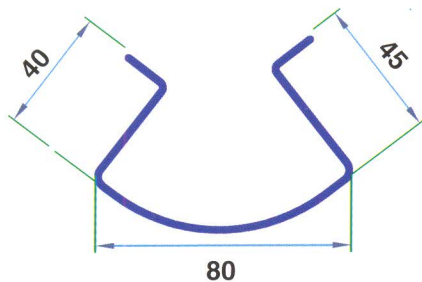
## 100 x 32 Top Hat (PIL-100/010)



Thickness  
1.6mm

Material  
CR

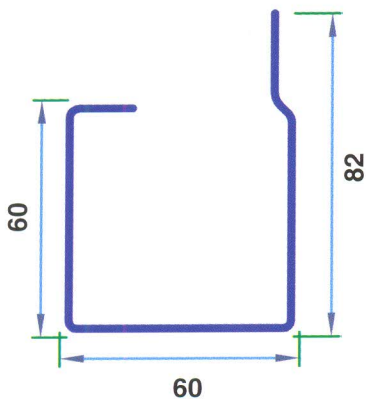
## Swiss Profile (PIL-100/011)



Thickness  
2.0mm

Material  
HR

## Door Brim (PIL-100/012)

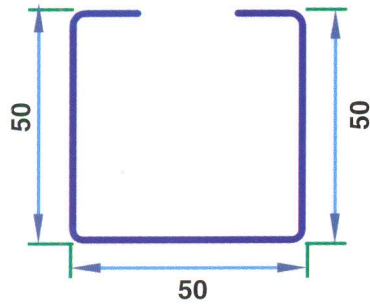


Thickness  
2.0mm

Material  
HR

# Auto Segment

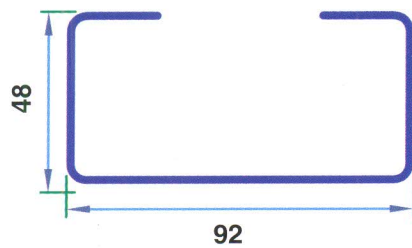
## Middle Stiffner (PIL-100/013)



Thickness  
2.0mm

Material  
HR

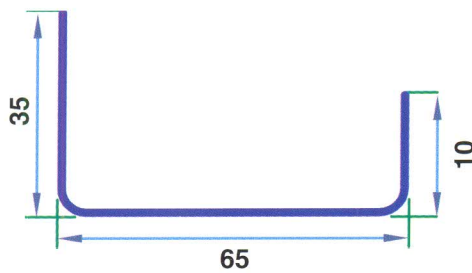
## 92 x 48 x 25 Lip Channel (PIL-100/014)



Thickness  
3.15mm

Material  
HR

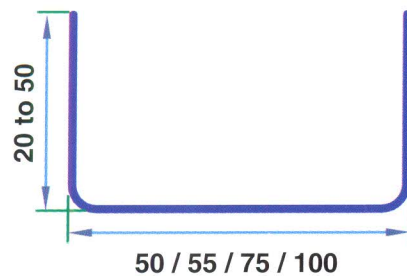
## 65 x 35 x 10 Channel (PIL-100/015)



Thickness  
2.5mm

Material  
HR

## Plain Channels (PIL-100/016)



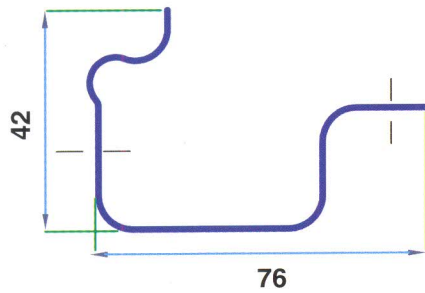
Thickness  
2.0mm - 2.5mm

Material  
HR



# Auto Segment

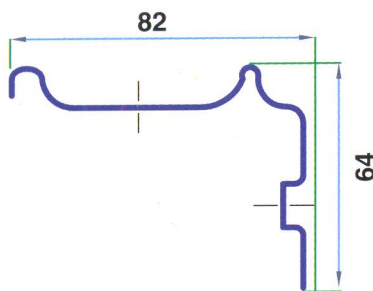
## Brim Bottom Side Gate & Rear Gate (PIL-100/017)



Thickness  
1.6mm

Material  
CR

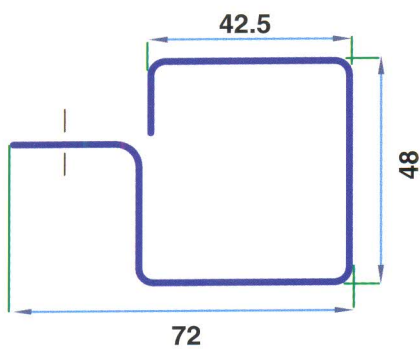
## Rail Side & Rail Rear (PIL-100/018)



Thickness  
2.8mm

Material  
HR

## Brim Top Side Gate (PIL-100/019)

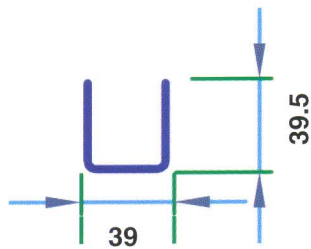


Thickness  
2.2mm

Material  
HR

# Auto Segment

## Channel (PIL-100/020)



Thickness  
3.15mm

Material  
HR

## 73 Pitch Panel (PIL-100/021)



W  
475 / 495 / 530 / 547 / 565 / 567 / 592 / 600 /  
603 / 711 / 1016 / 1082

Thickness  
1.25mm - 1.6mm

Material  
CR

## 76 Pitch Panel (PIL-100/022)

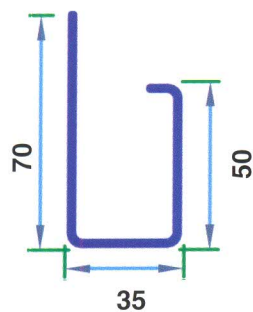


W  
412 / 496 / 514 / 566 / 575 / 608

Thickness  
1.25mm - 1.6mm

Material  
CR

## Rail RR(J) (PIL-100/023)



Thickness  
2.0mm

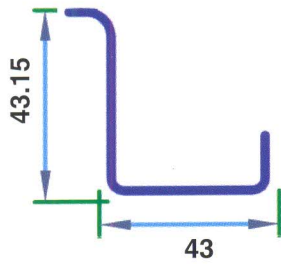
Material  
HR





# Auto Segment

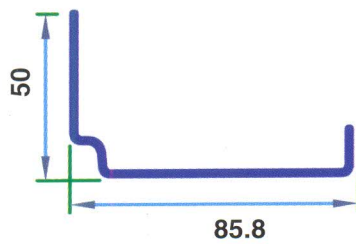
## Front Bolster (PIL-100/024)



Thickness  
3.15mm

Material  
HR

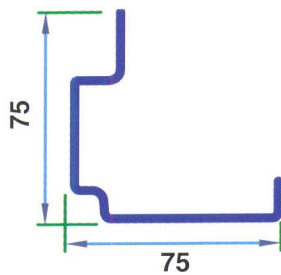
## Rail Side (PIL-100/025)



Thickness  
2.0mm

Material  
HR

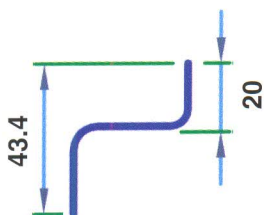
## Rail RR (PIL-100/026)



Thickness  
2.0mm

Material  
HR

## Rail LWR RRGT (PIL-100/027)

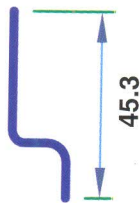


Thickness  
1.6mm

Material  
CR

# Auto Segment

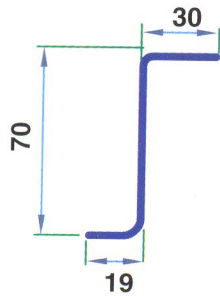
## Patch Header (PIL-100/028)



Thickness  
2.5mm

Material  
HR

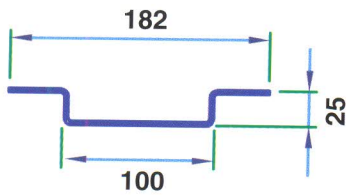
## Floor Bolster (PIL-100/029)



Thickness  
3.15mm

Material  
HR

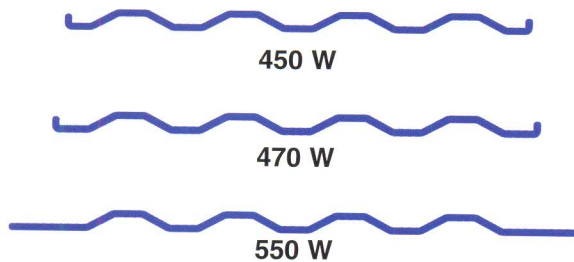
## Horizontal Member (PIL-100/030)



Thickness  
2.0mm

Material  
HR

## 108 Pitch Panel (PIL-100/031)



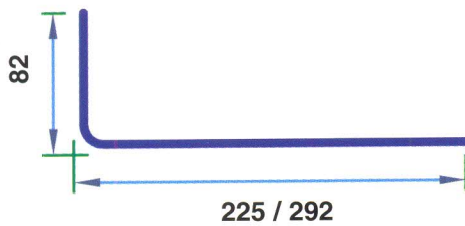
Thickness  
1.2mm

Material  
CR



# Auto Segment

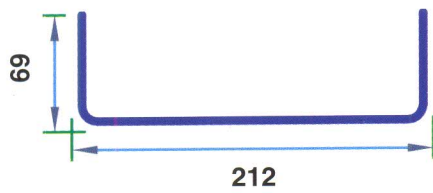
## External Flitch (PIL-100/032)



Thickness  
6.0mm

Material  
HR (High Strength)

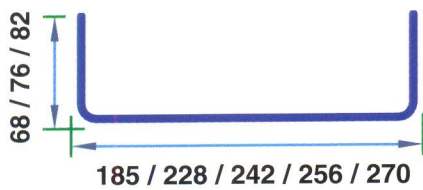
## Internal Flitch (PIL-100/033)



Thickness  
6.0mm

Material  
HR (High Strength)

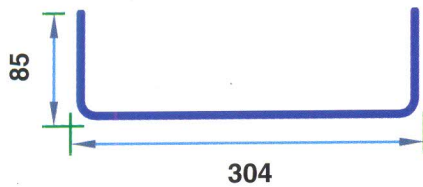
## FSM Channel (PIL-100/034)



Thickness  
5mm, 6.3mm & 7.0mm

Material  
HR (High Strength)

## FSM Channel (PIL-100/035)



Thickness  
8.0mm

Material  
HR (High Strength)

# Auto Segment

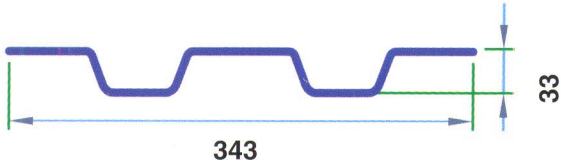
## Adaptor (PIL-100/036)



Thickness  
2.0mm

Material  
CR

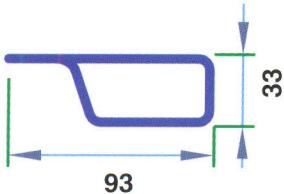
## Upper Sheet / Lower Sheet (PIL-100/037)



Thickness  
2.0mm

Material  
CR

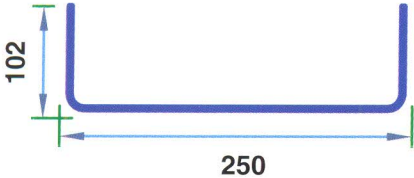
## Marginal Box (PIL-100/038)



Thickness  
2.0mm

Material  
CR

## Channel (PIL-100/039)



Thickness  
6.0mm

Material  
HR (High Strength)