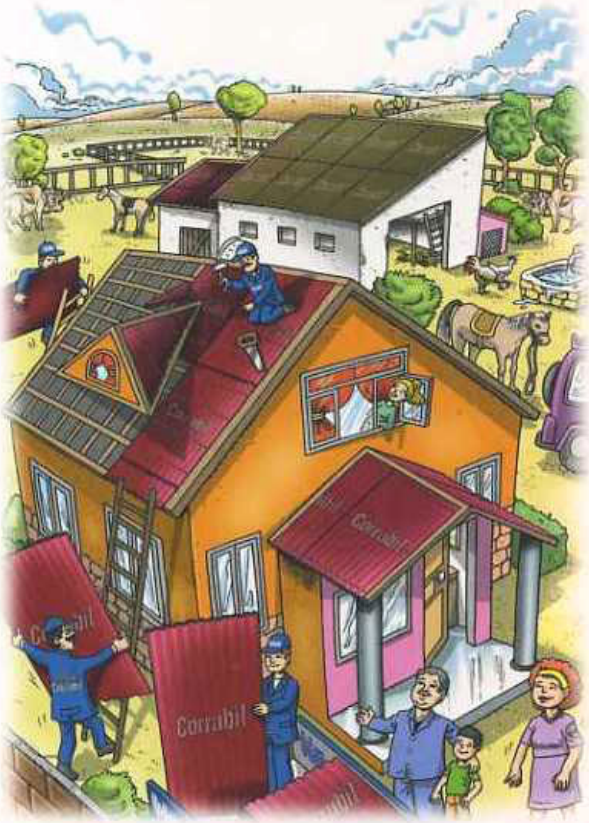
Application Guide



btm® corrubit®

Corrugated bitumen roofing sheets

btm corrubit®

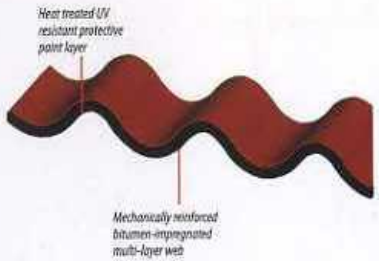
- Strong
- Lightweight, no extra load to the building regarding earthquake safety
- Easy to process
- Waterproof
- Moisture free, mould free
- Recyclable, environmentally friendly
- Resistant to UV and atmospheric chemicals, resistant to icing and frost
- Practical and economic in new buildings and roofs requiring reconditioning
- Flexible, can be used curved surfaces
- Safely used in different roof constructions such as wooden, steel, reinforced concrete
- Widely used in different construction types

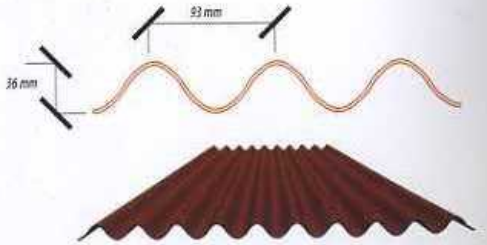
btm corrubit

Physical Characteristics	Standard	Unit	Value	Tolerance
Sheet Length	TS 3442 EN 534	cm	200	(-% 0,15) (+% 0,5)
Sheet Width	TS 3442 EN 534	cm	93	± % 1
Thickness	TS 3442 EN 534	mm	2,4	± % 10
Corrugation Depth	TS 3442 EN 534	mm	36	± % 6
Corrugation Pitch	TS 3442 EN 534	mm	93	± % 1
No. of Corrugations	TS 3442 EN 534	pcs.	10	-
Sheet Weight	TS 3442 EN 534	kg/pc	5.8	± % 8
Bitumen Quantity	TS 3442 EN 534	%	48	± % 3
Bending under Vertical Load (Load creating a deflection of 3,1 mm at a purlin spacing of 620 mm)	TS 3442 EN 534	daN	500* average	> 240
Sheet Tearing	TS 3442 EN 534	daN	> 20	> 20
Resistance to Frost	TTS 3442 EN 534	-	✓	-
Resistance to UV	TS 3442 EN 534	-	✓	-
No. of Pallet Sheets	-	pcs.	350	-

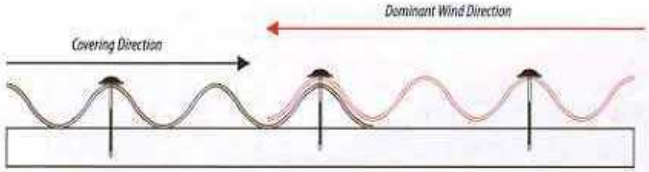
* The minimum load creating a slope equal to 1/200 of the spacing is 240 daN minimum for the purlin spacing of 620 mm according to TS 3442 EN 534

BTM Corrubit Sheets are bitumen impregnated high strength organic fibers.
The sheet strength has been increased by different and special corrugation geometry.
The sheets have been reinforced by a protective painting coat to withstand all weather and climatic conditions.



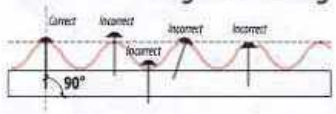


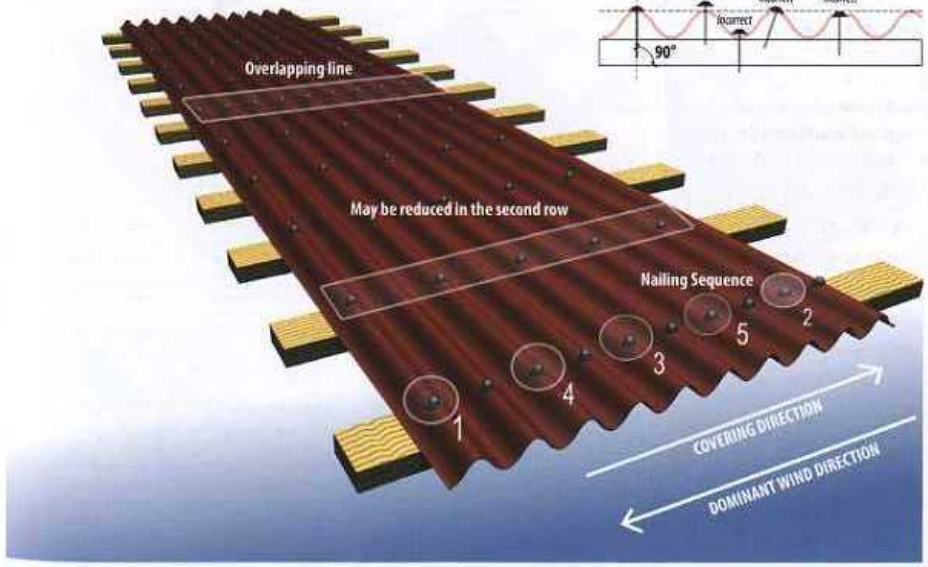
btm corrubit



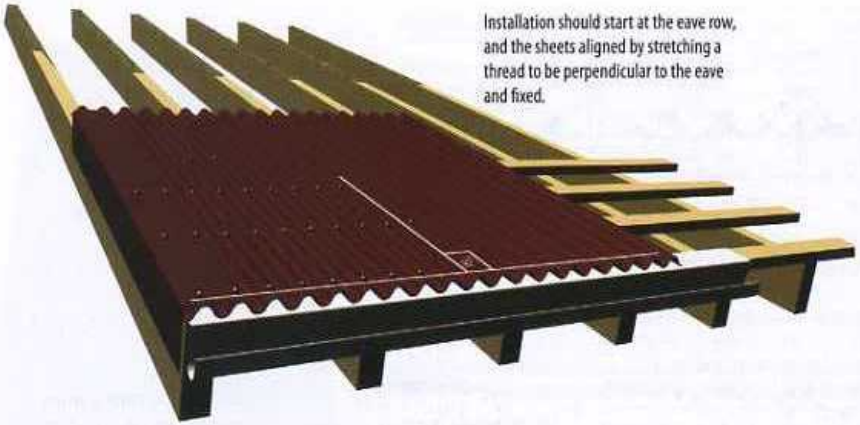
- The dominant wind direction should be observed in widthwise overlapping, sheet fixing direction determined accordingly.
- Special plastic head nails should be used in fixing.
- Nailing should start on the bottom edge in accordance with the sheet fixing direction; sheets should be nailed in observing the numbering in the figure.
- The nail should be driven perpendicular to the sheet and up to the top point of the sheet. The nail heads should not protrude up, but tangential to the sheet without causing any deformation on the sheet.
- The overlapping line should coincide with the purlins. At that time not all of the top points should be nailed. For intermediate purlins, nailing should be performed by leaving a gap on each corrugation top point depending on local wind characteristics.

Regular nailing

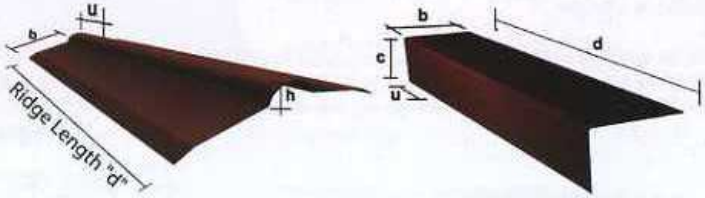




btm corrubit



Installation should start at the eave row, and the sheets aligned by stretching a thread to be perpendicular to the eave and fixed.



BTM Corrubit accessories specially manufactured for sheet edges and ridge details should be preferred.

The ridge and edge accessories are special products having the same technical specifications as BTM Corrubit sheets, flexible, durable and corrosion and UV resistant.

The sheets should be fixed on all top points without reduction in installing the ridge and edge accessories.

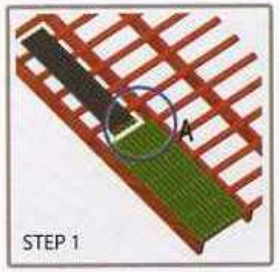
Ridge Accessory

Sheet Length "d" distance	mm	2000
"b" distance "u"	mm	240
Overlapping distance "u"	mm	140
Top point "h"	mm	40

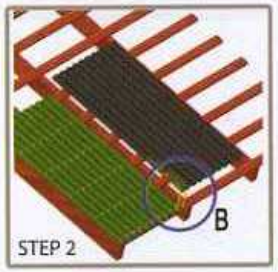
Edge Accessory

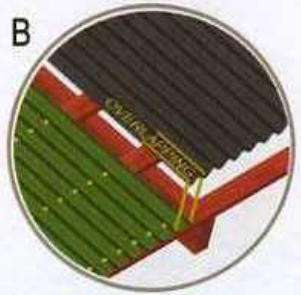
Sheet "b" distance	mm	200
Sheet "c" distance	mm	130
Length "d" distance	mm	1000
Overlapping distance	mm	100

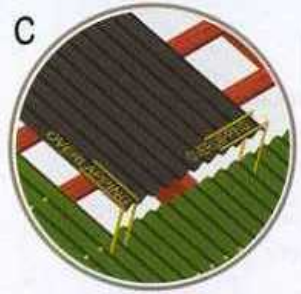
btm corrubit

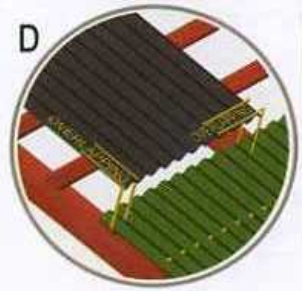


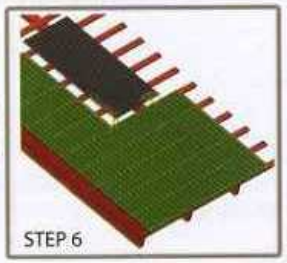
BTM Corrubit sheets should be installed on the roof in the sequential order shown in the figure, and the half-length sheet to be used in the second row and the joints at overlapping points should be centered.
Care should be taken not to step on the purlins when walking on the sheets during installation.
The ridge and eave tips should be covered under control using special bituminous sponge against pests, dust and moisture, without neglecting the ventilation requirements.



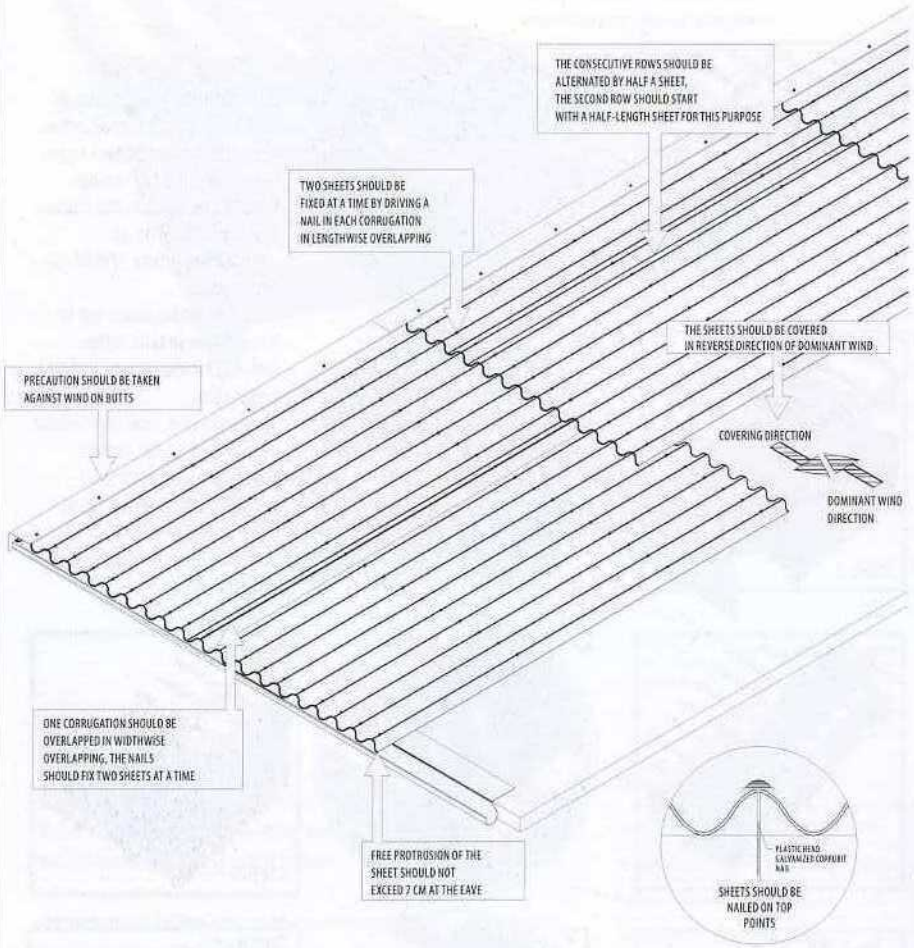






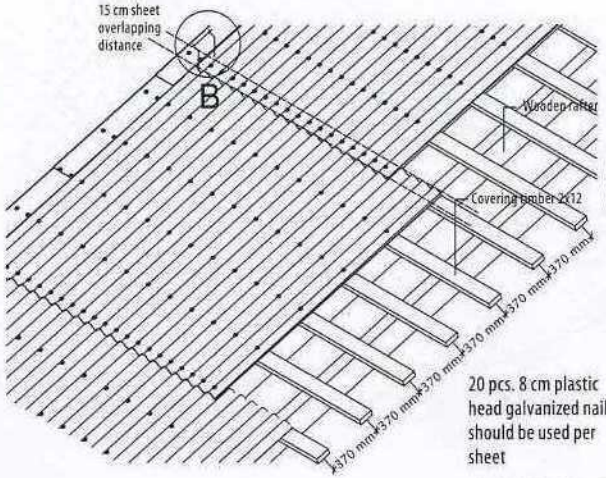


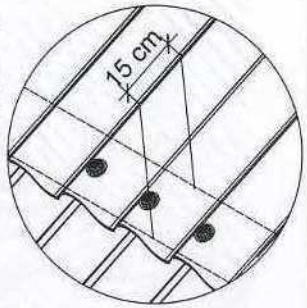
GENERAL APPLICATION PRINCIPLES



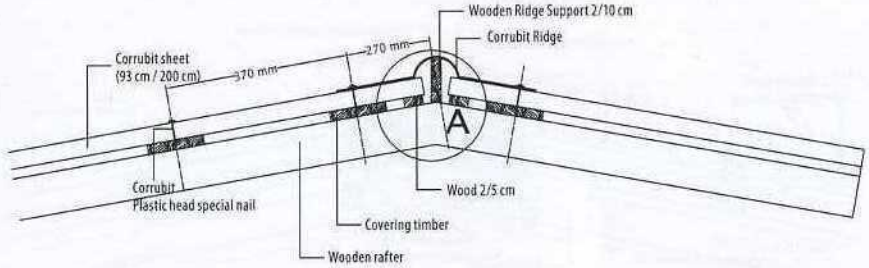
* THE ABOVE INFORMATION COVERS BASIC APPLICATION PRINCIPLES APPLICABLE TO ALL SLOPES AND INFRASTRUCTURE SYSTEMS.

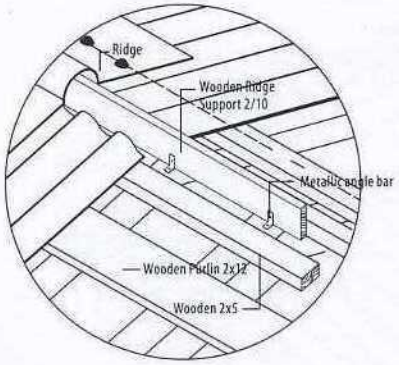
WOODEN ROOF (slope: 9 – 15%)

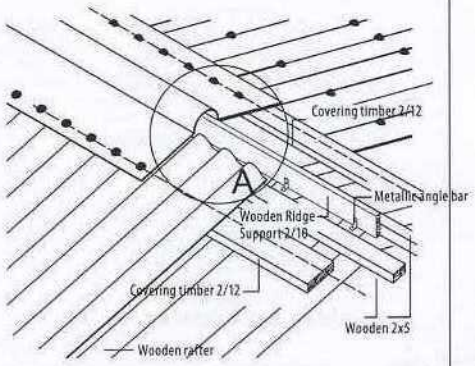




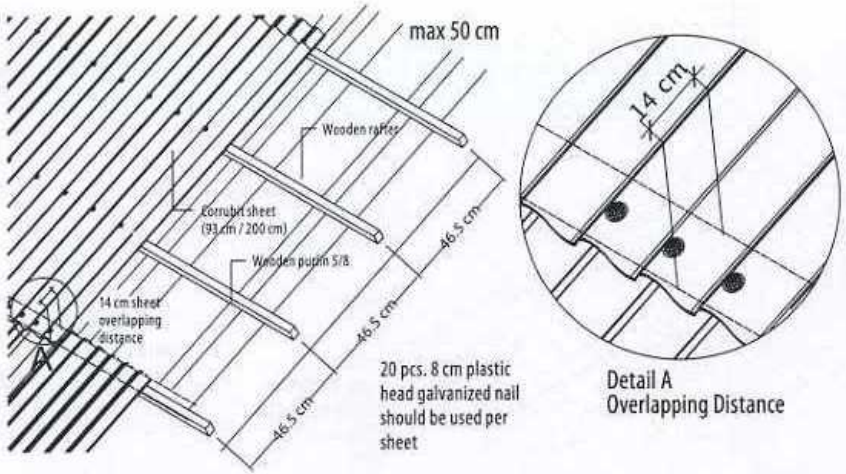
Detail B
Overlapping Distance





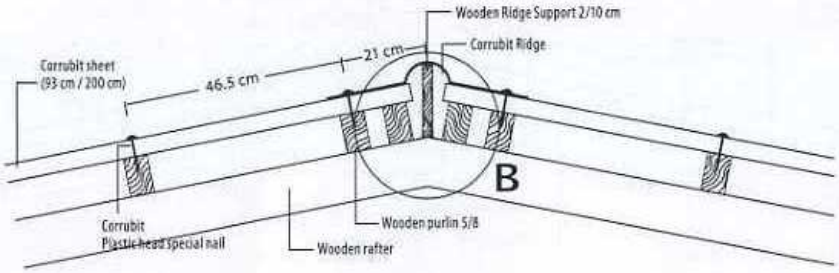


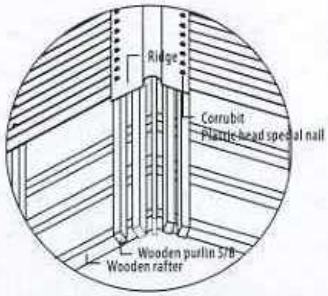
WOODEN ROOF (slope: 15 – 21%)



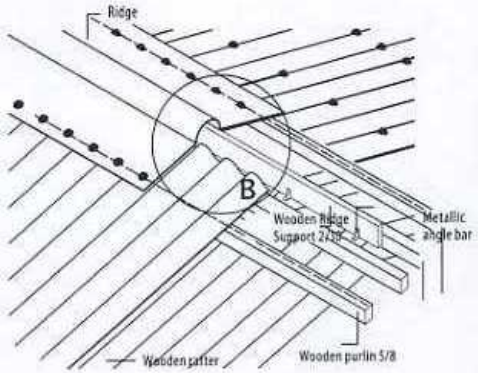
20 pcs. 8 cm plastic head galvanized nail should be used per sheet

Detail A
Overlapping Distance

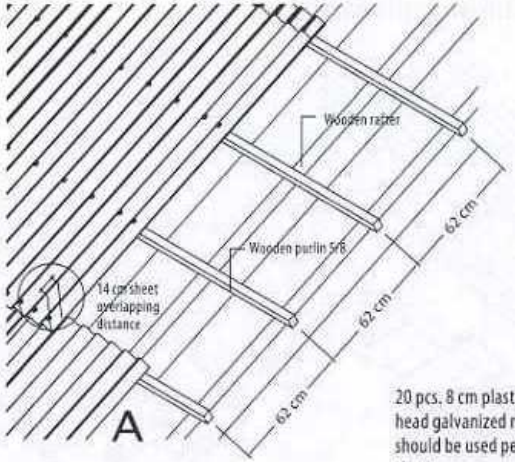




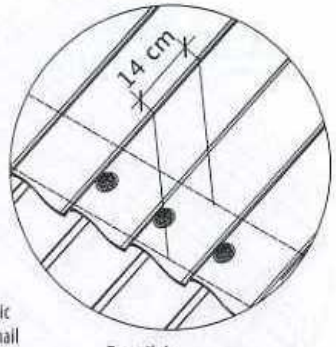
Ridge Joining Detail B



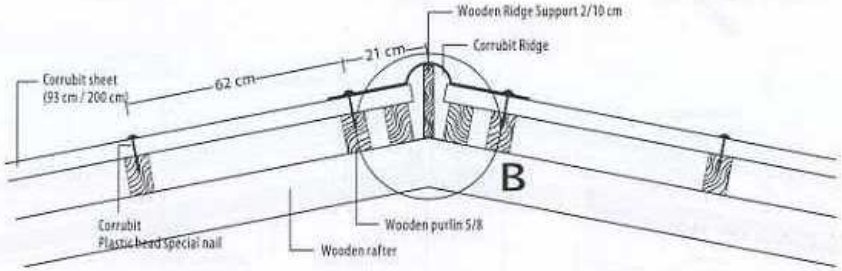
WOODEN ROOF (slope: 21% or more)

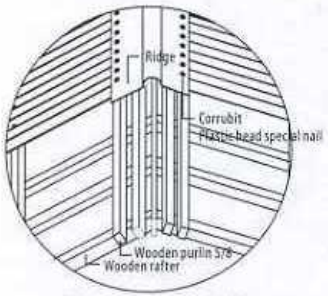


20 pcs. 8 cm plastic head galvanized nail should be used per sheet

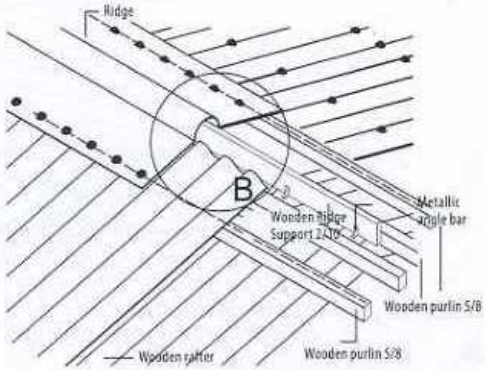


Detail A
Overlapping Distance

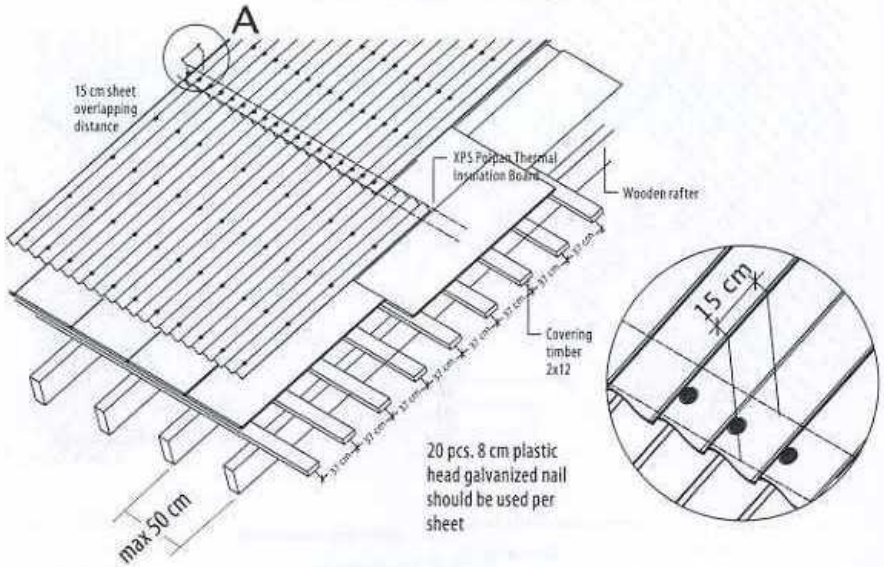




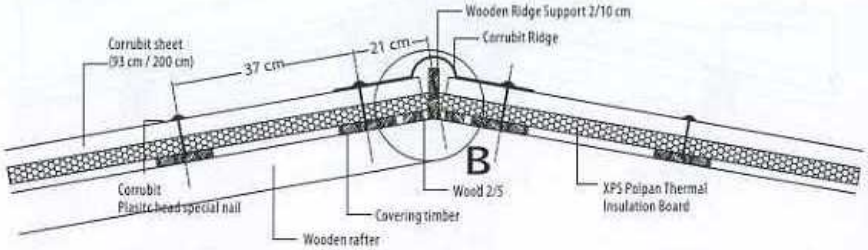
Ridge Joining Detail B

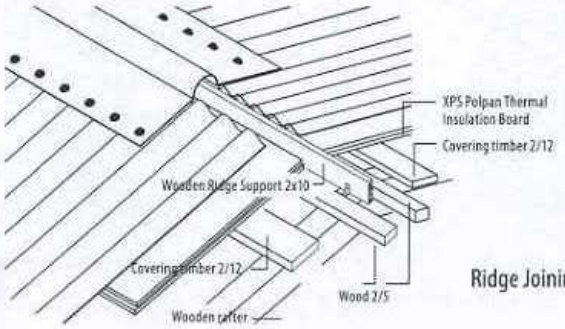


WOODEN ROOF (slope: 9 – 15%)
(Thermal insulated)



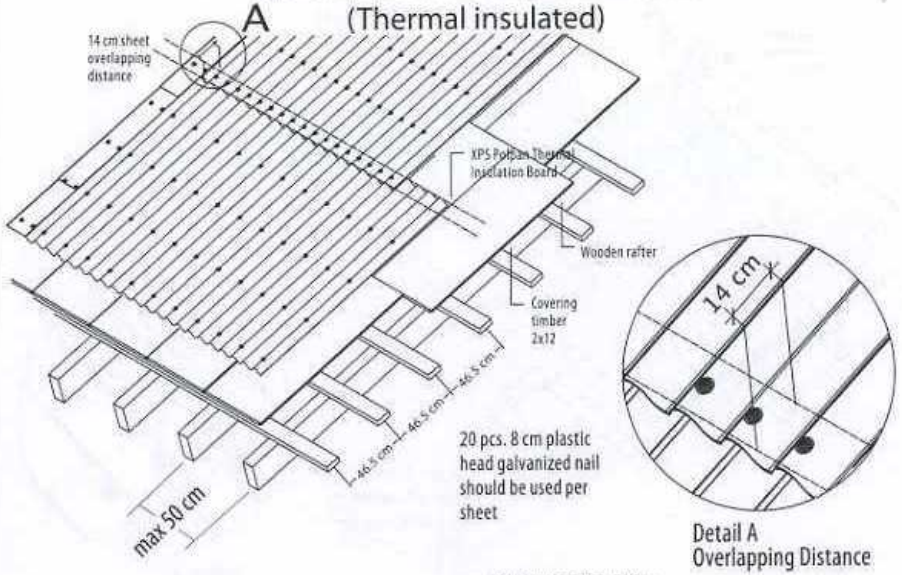
20 pcs. 8 cm plastic head galvanized nail should be used per sheet





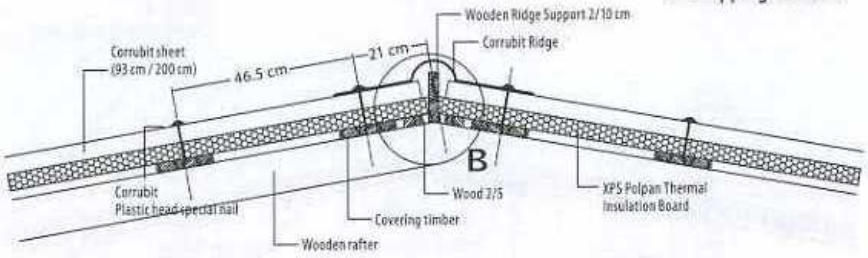
Ridge Joining Detail B

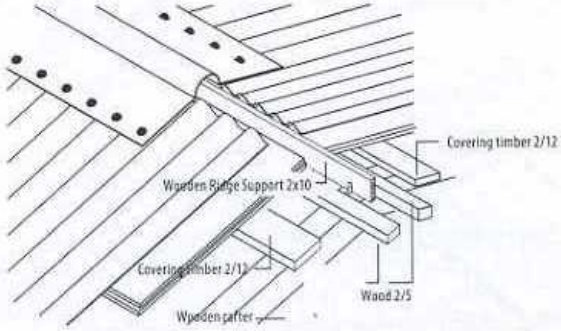
WOODEN ROOF (slope: 15 – 21%)
(Thermal insulated)



20 pcs. 8 cm plastic head galvanized nail should be used per sheet

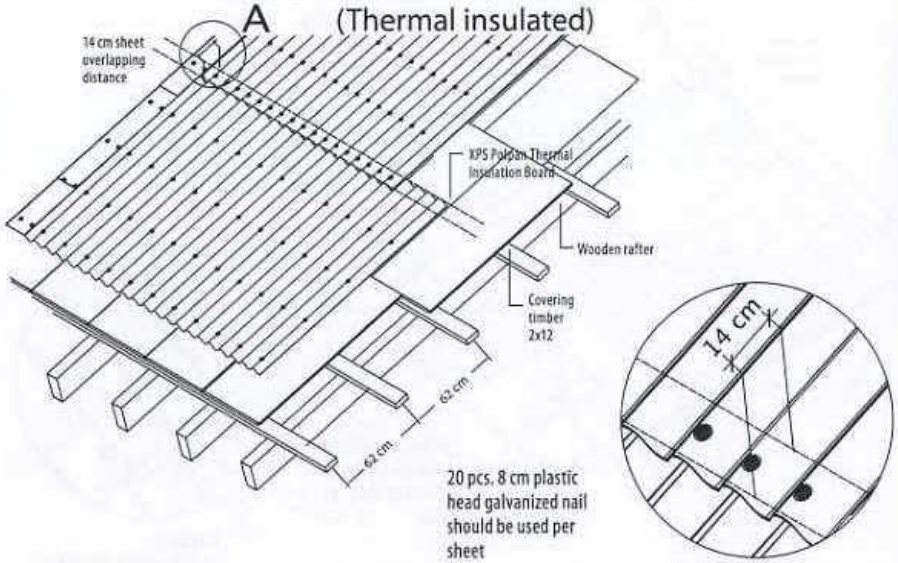
Detail A
Overlapping Distance





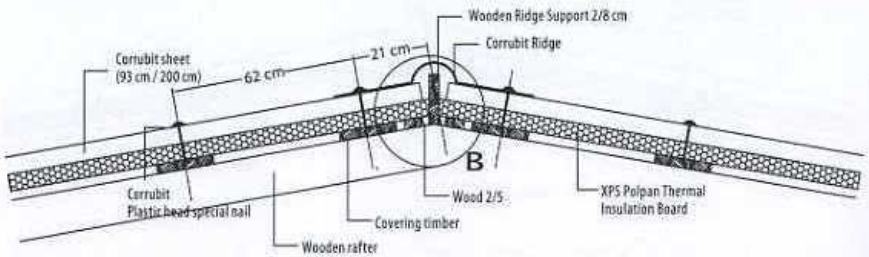
Ridge Joining Detail B

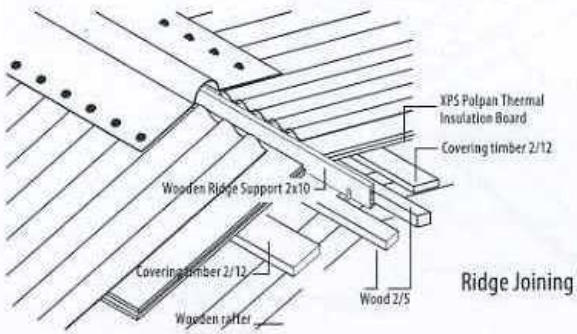
WOODEN ROOF (slope: 21% or more) (Thermal insulated)



20 pcs. 8 cm plastic head galvanized nail should be used per sheet

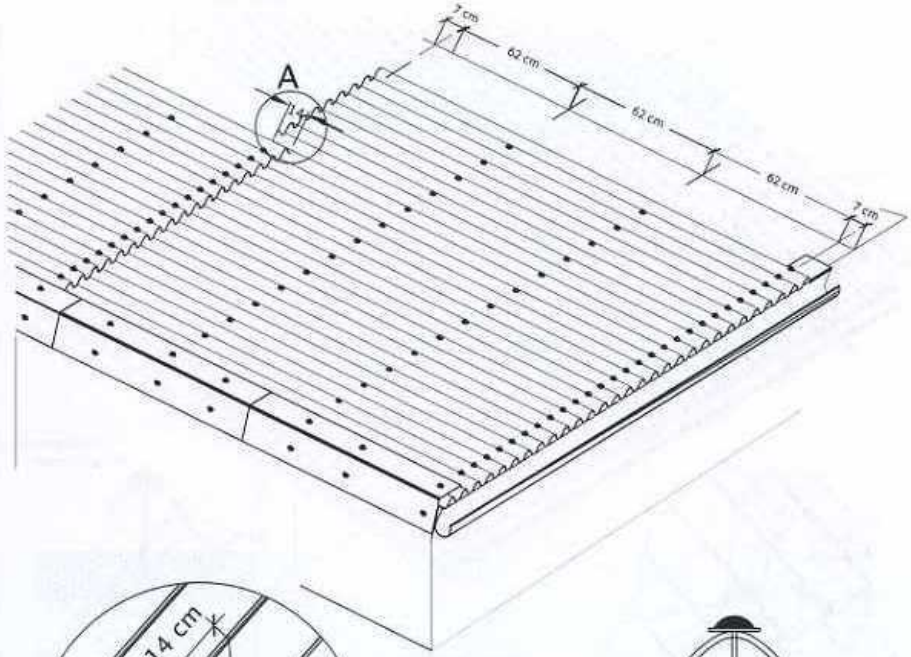
Detail A
Overlapping Distance

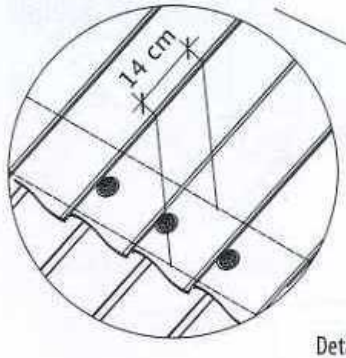




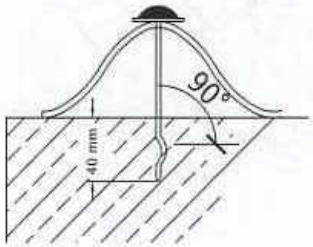
Ridge Joining Detail B

REINFORCED CONCRETE ROOF

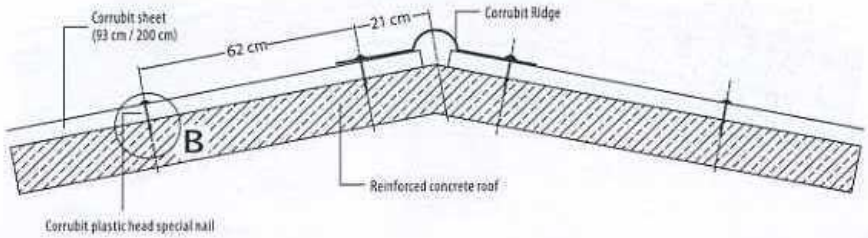




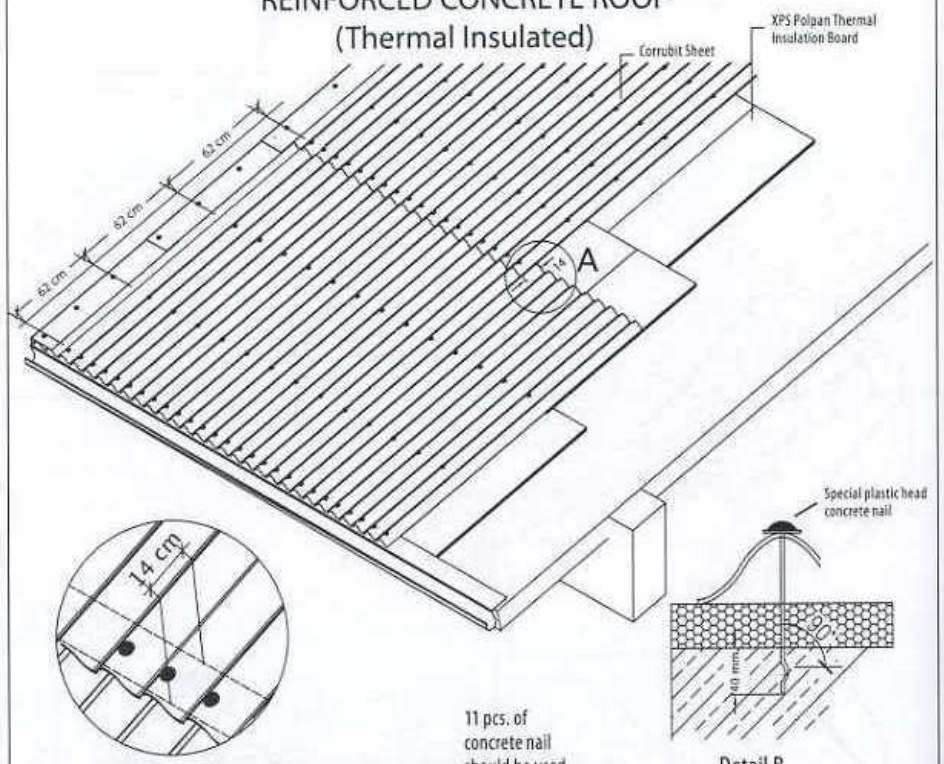
11 pcs. of concrete nail should be used per sheet (7 cm long)



Detail A Overlapping Distance



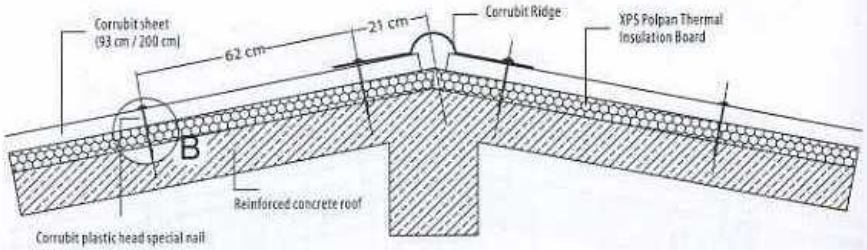
REINFORCED CONCRETE ROOF
(Thermal Insulated)



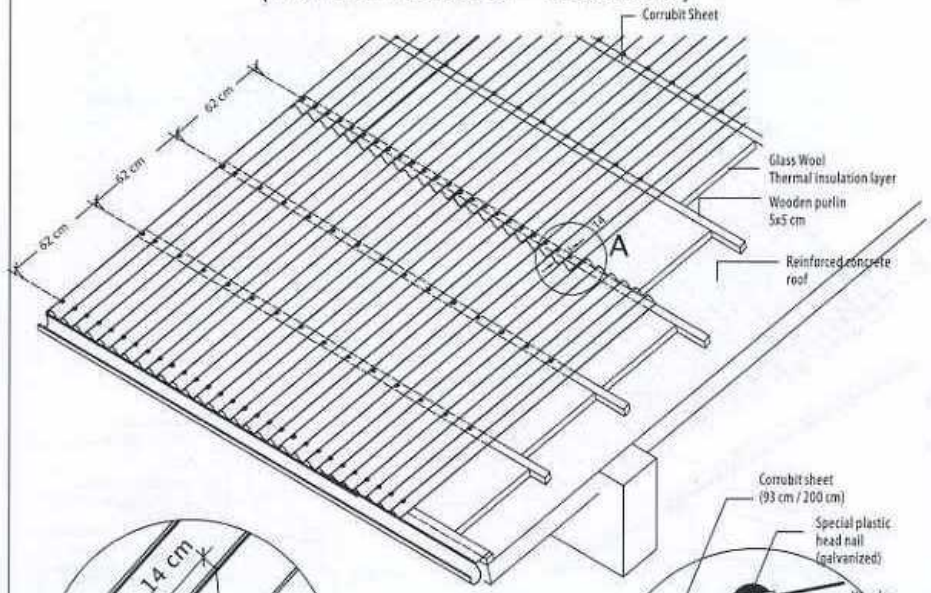
Detail A Overlapping Distance

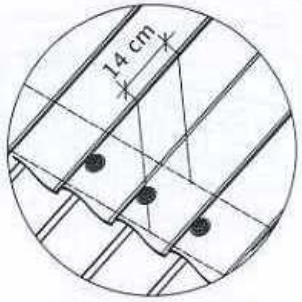
11 pcs. of concrete nail should be used per sheet

Detail B



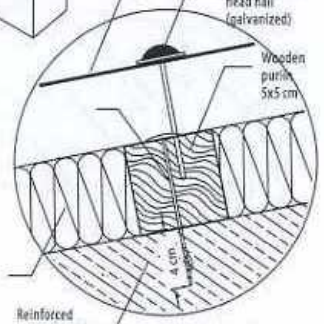
REINFORCED CONCRETE ROOF
(Thermal Insulated – Glass Wool)



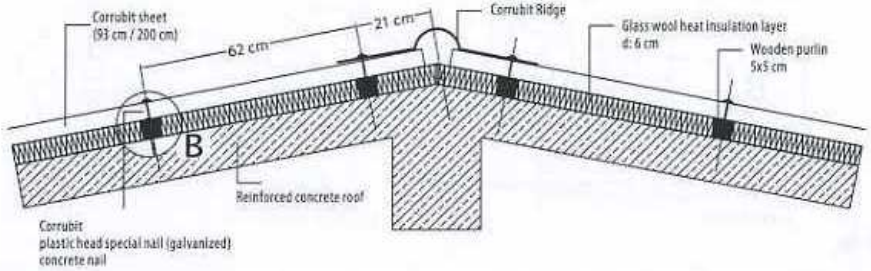


Detail A Overlapping Distance

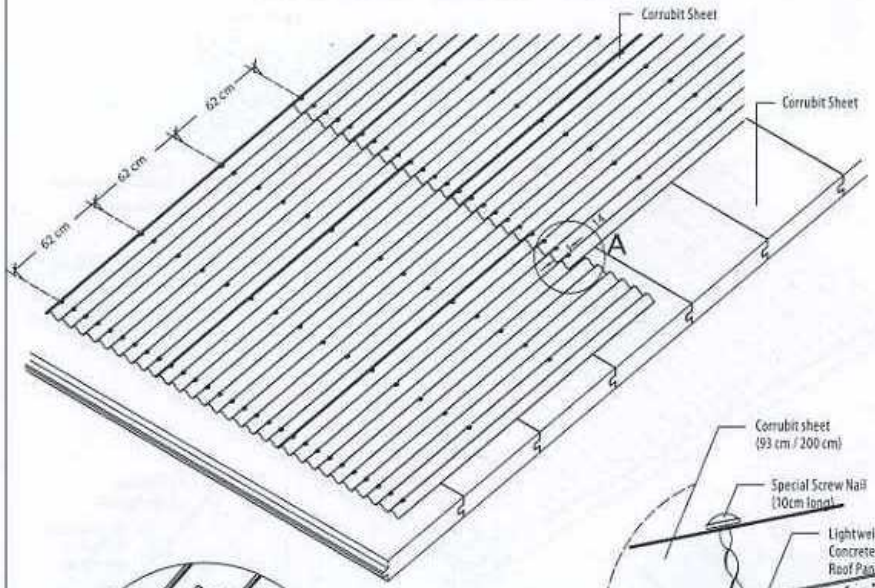
20 pcs. of concrete nail should be used per sheet (8 cm long plastic head nail)

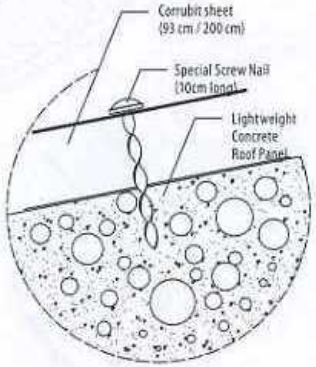


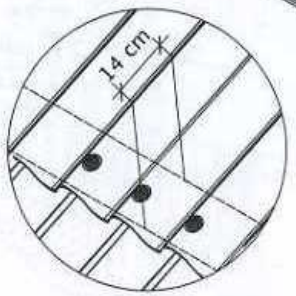
Nail Detail B



LIGHTWEIGHT CONCRETE ROOF



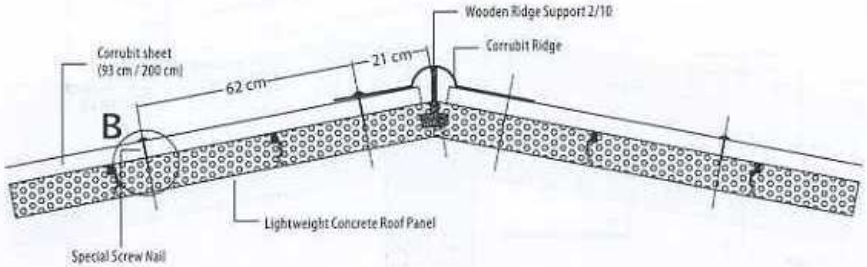




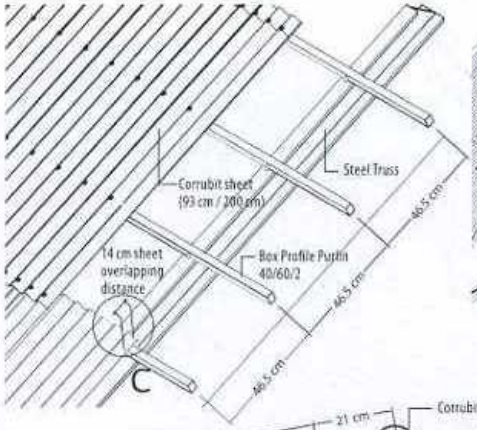
20 pcs. of concrete nail should be used per sheet (8 cm long plastic head nail)

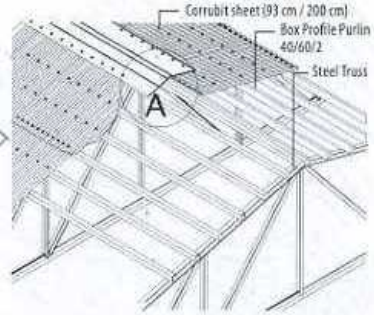
Nail Detail B

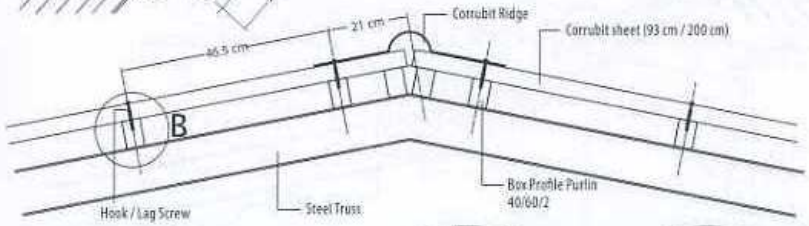
Detail A Overlapping Distance



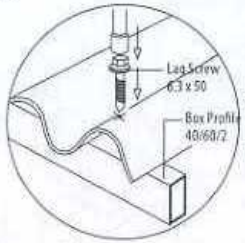
STEEL ROOF (slope: 15 – 21%)



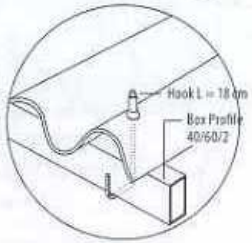




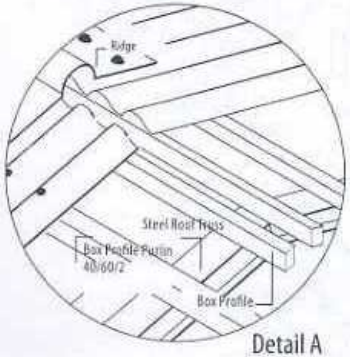
11 pcs. lag screws or 11 hooks should be used per sheet



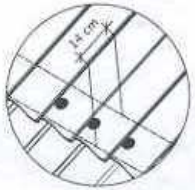
Fixing by lag screw



Fixing by hook



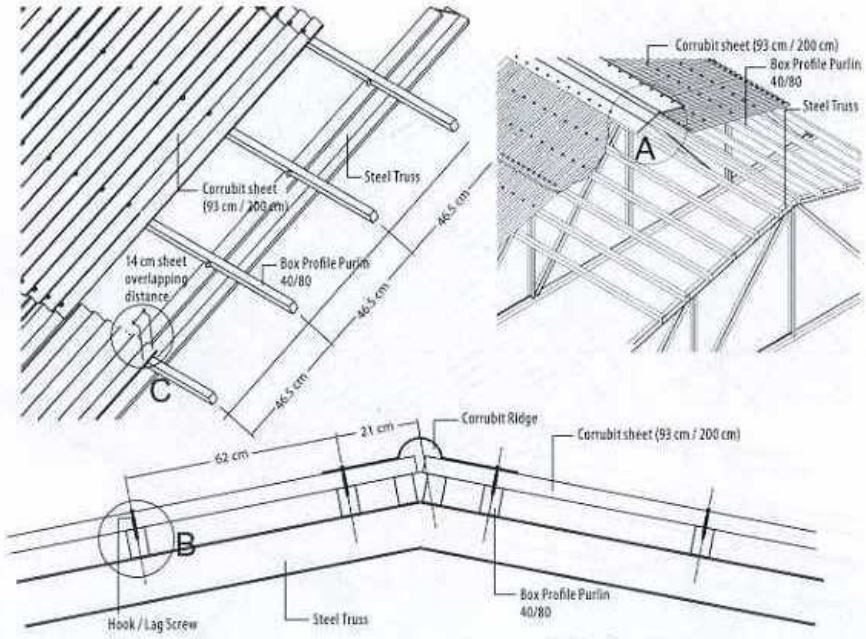
Detail A
Ridge Joining



Detail B
Sheet Fixing

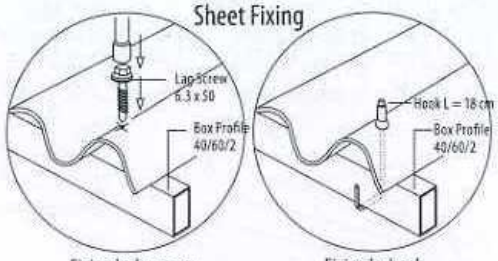
Detail C
Overlapping Distance

STEEL ROOF (slope: 21% or more)



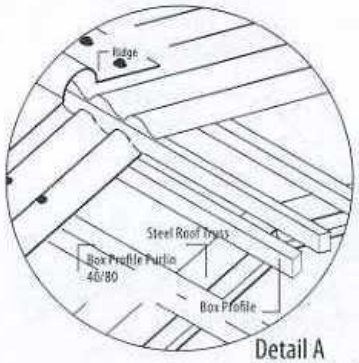
Detail B
Sheet Fixing

11 pcs. lag screws or 11 hooks should be used per sheet

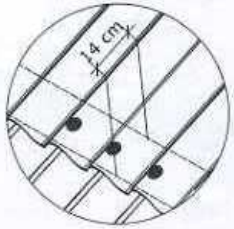


Fixing by lag screw

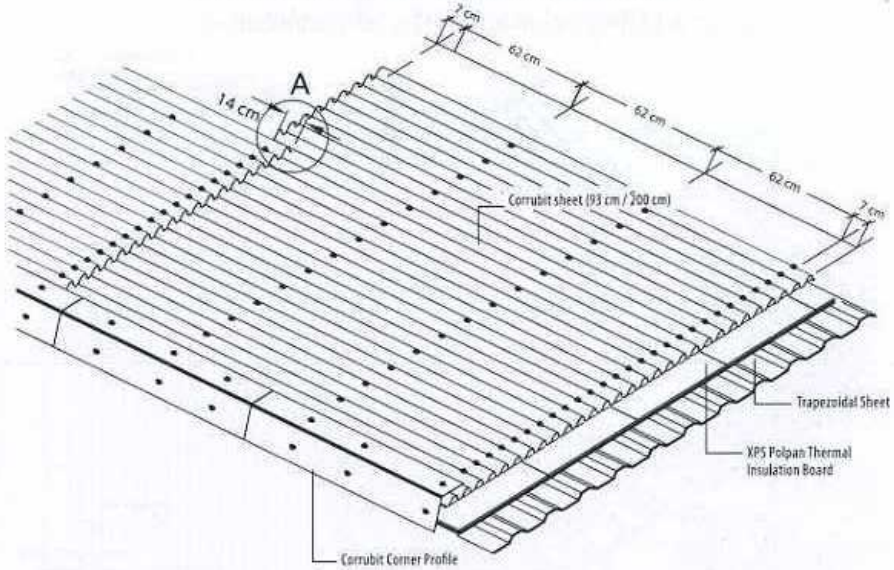
Fixing by hook

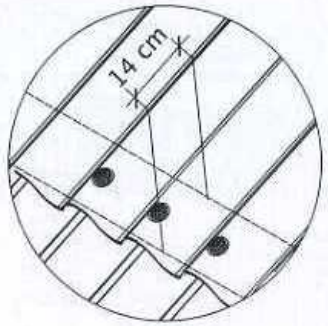


Detail A
Ridge Joining

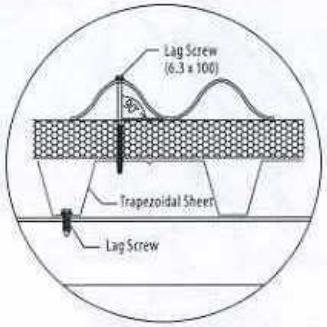


APPLICATION ON TRAPEZOIDAL SHEET

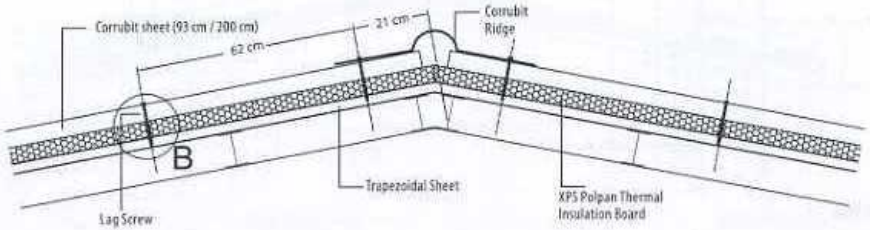




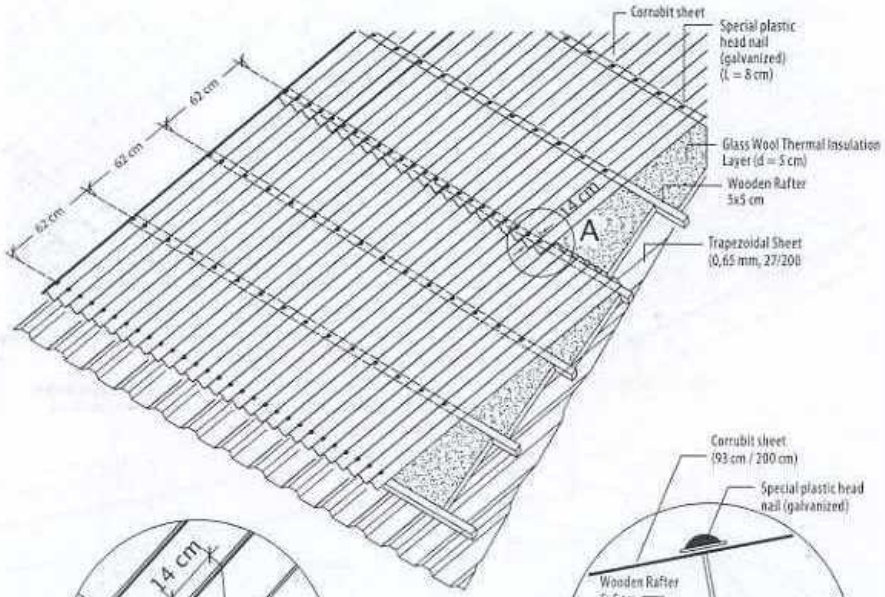
Detail A
Overlapping Distance

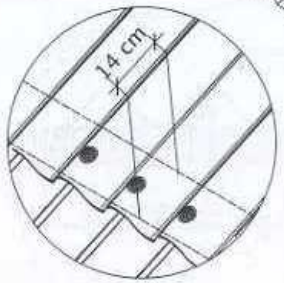


Detail B Sheet Fixing



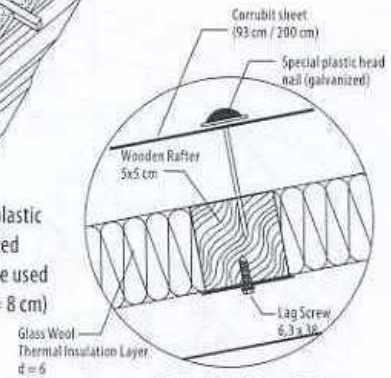
STEEL ROOF
(Thermal Insulated – Glass Wool)



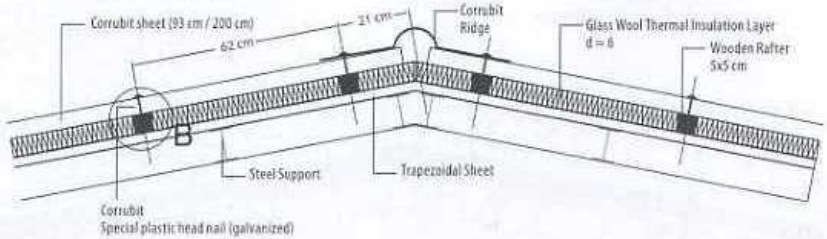


Detail A
Overlapping Distance

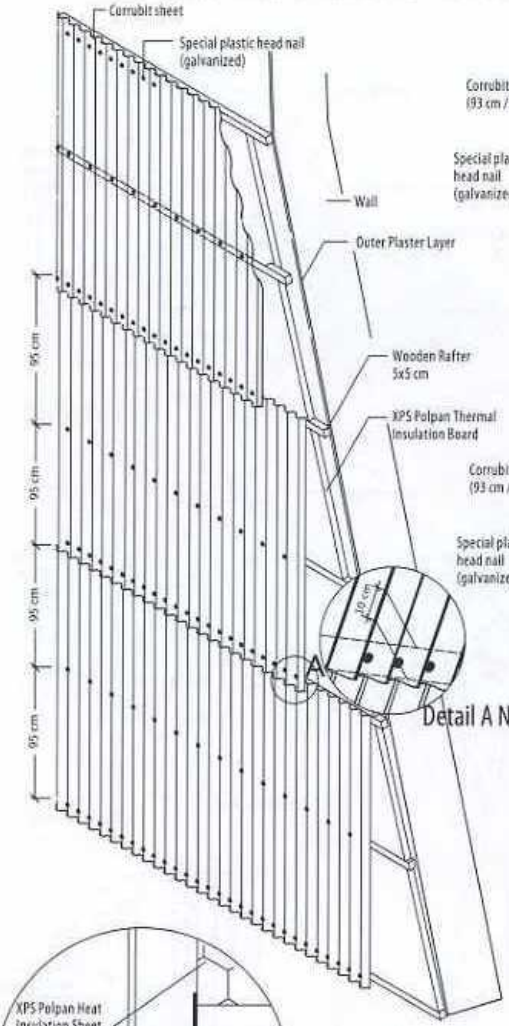
20 pcs. 8 cm plastic head galvanized nails should be used per sheet (L = 8 cm)



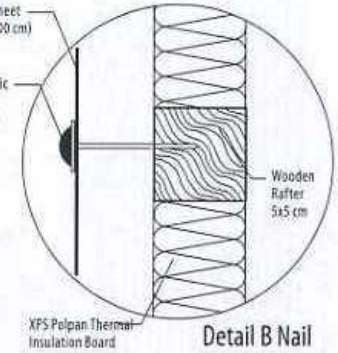
Detail B Sheet Fixing



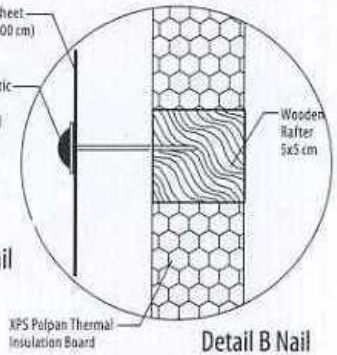
FAÇADE APPLICATION
(Thermal Insulated – Wooden Construction)



Detail A Nail

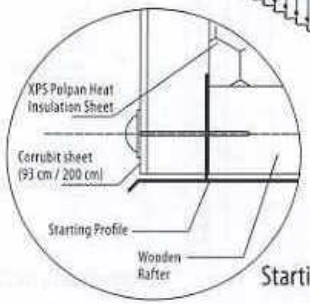


Detail B Nail

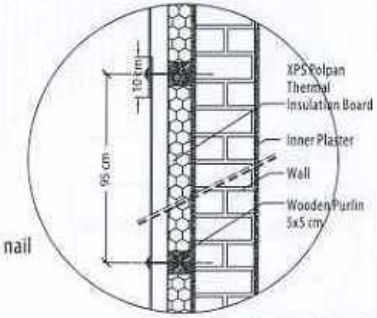


Detail B Nail

15 pcs. nails should be used per sheet (plastic head, galvanized nail L = 8 cm)

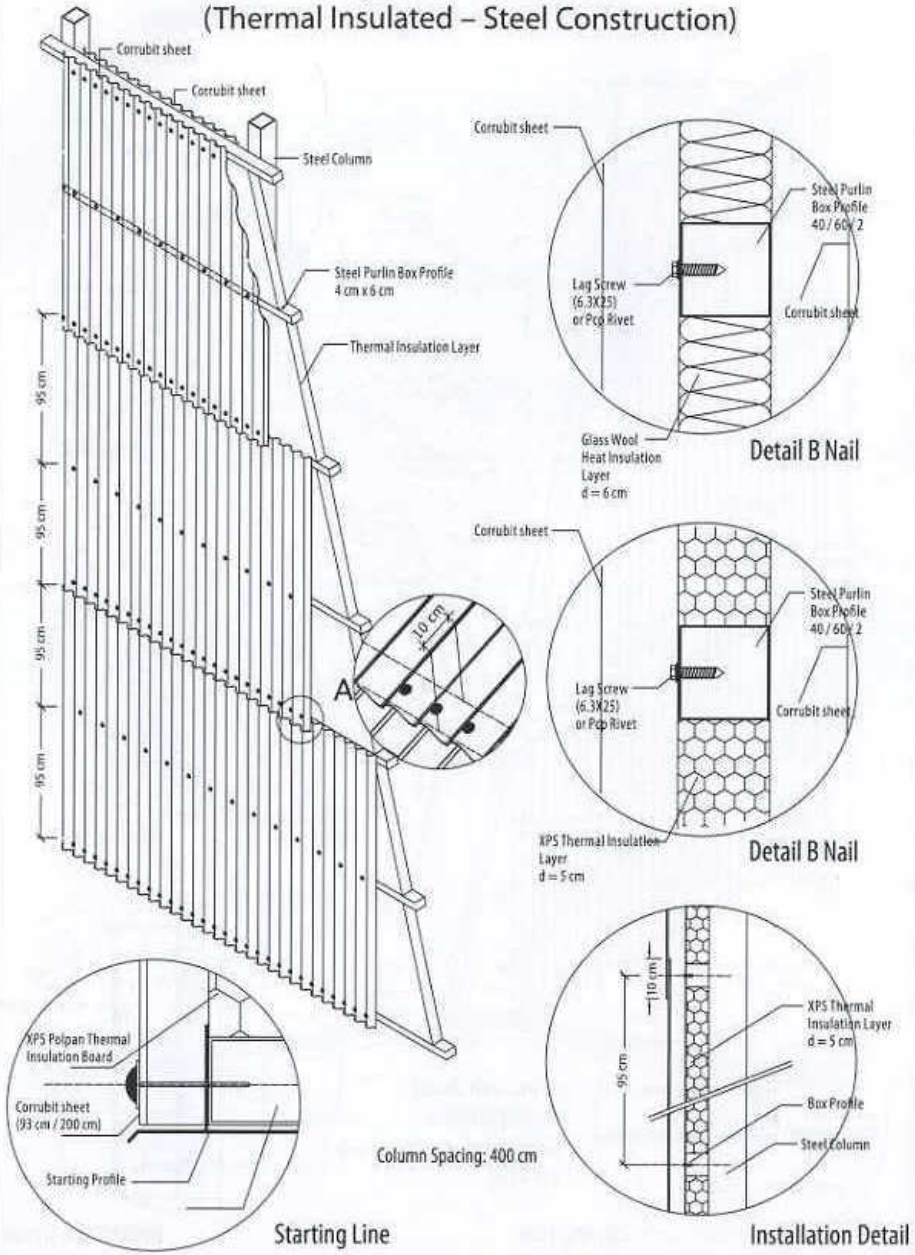


Starting Line

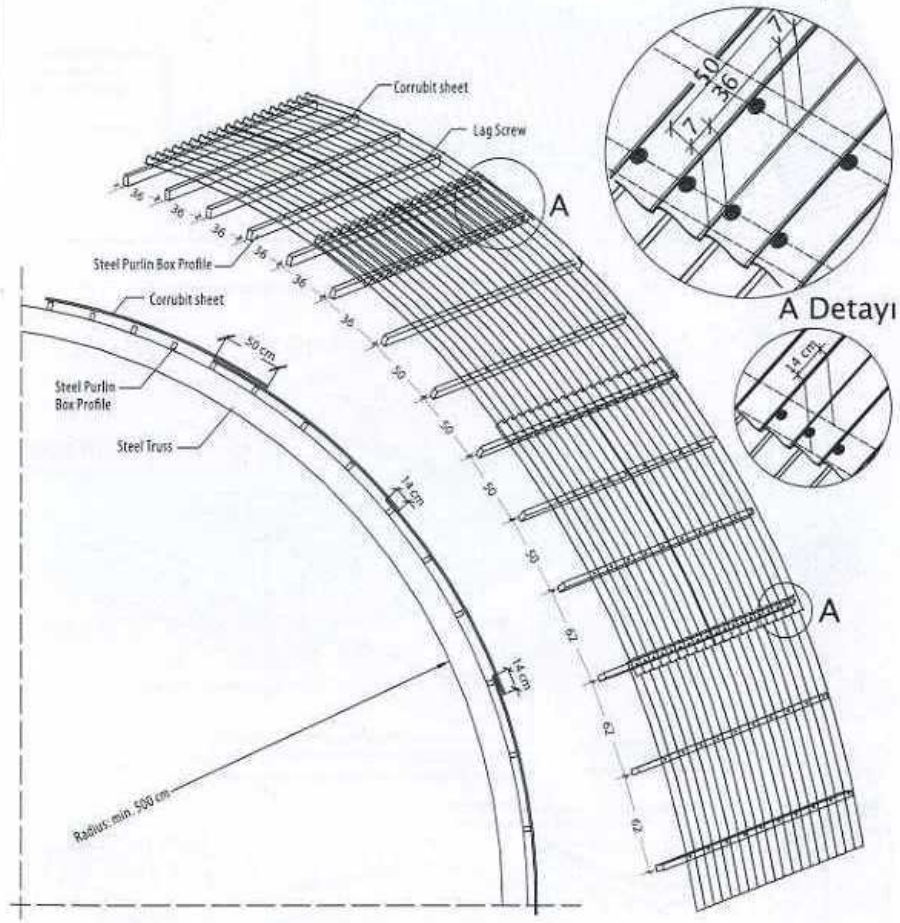


Installation Detail

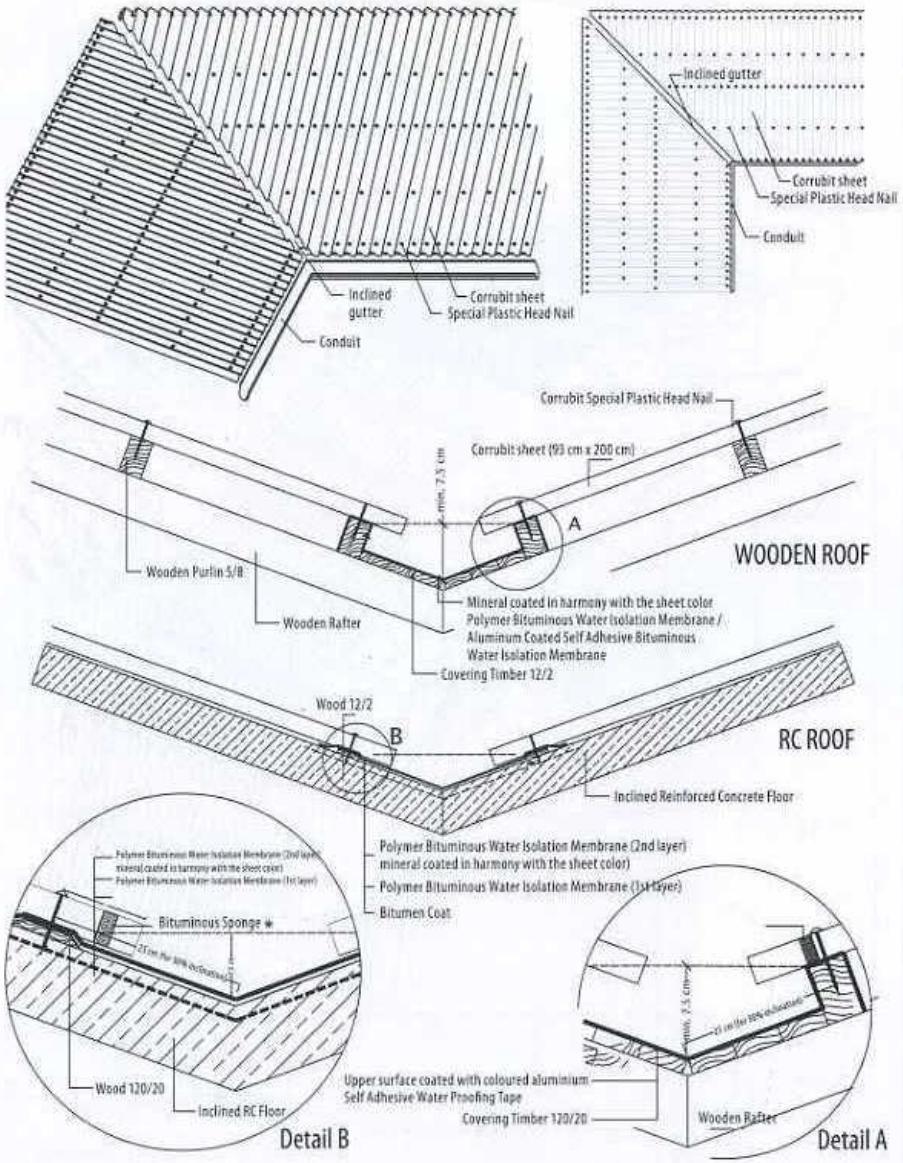
FAÇADE APPLICATION
(Thermal Insulated – Steel Construction)



APPLICATION ON CURVED SURFACES
(Steel Construction)

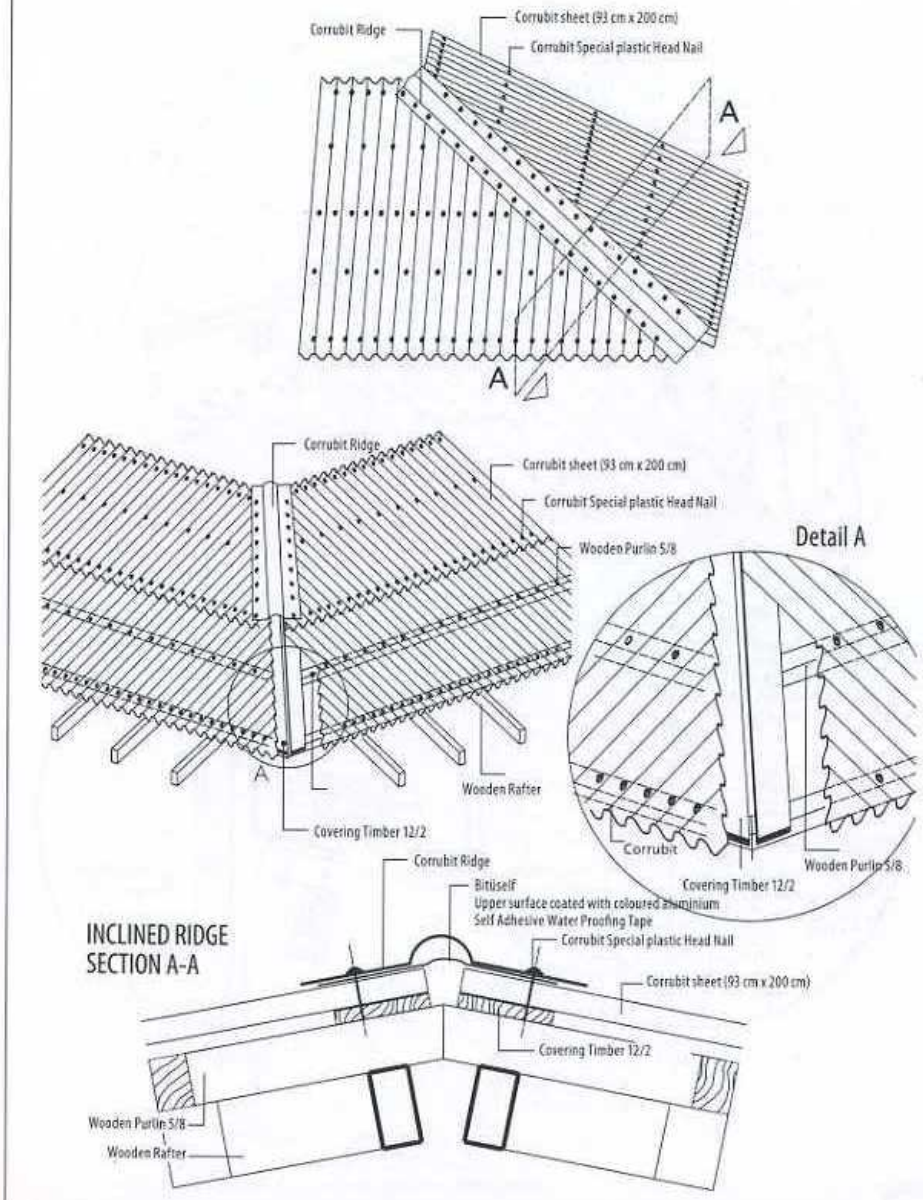


INCLINED GUTTER

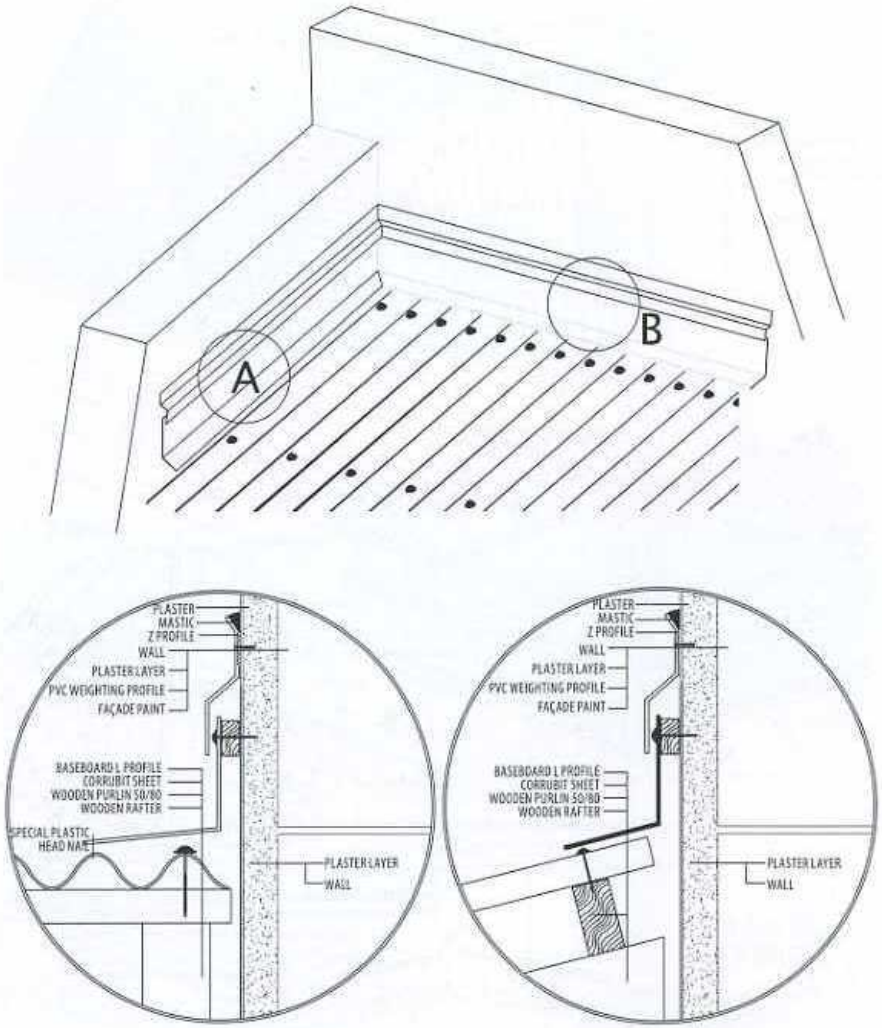


* Ventilation should be provided to avoid condensation and moisture in the roof space
Ventilation requirements should be observed in applying bituminous sponge for impermeability of eaves, horizontal and vertical ridges

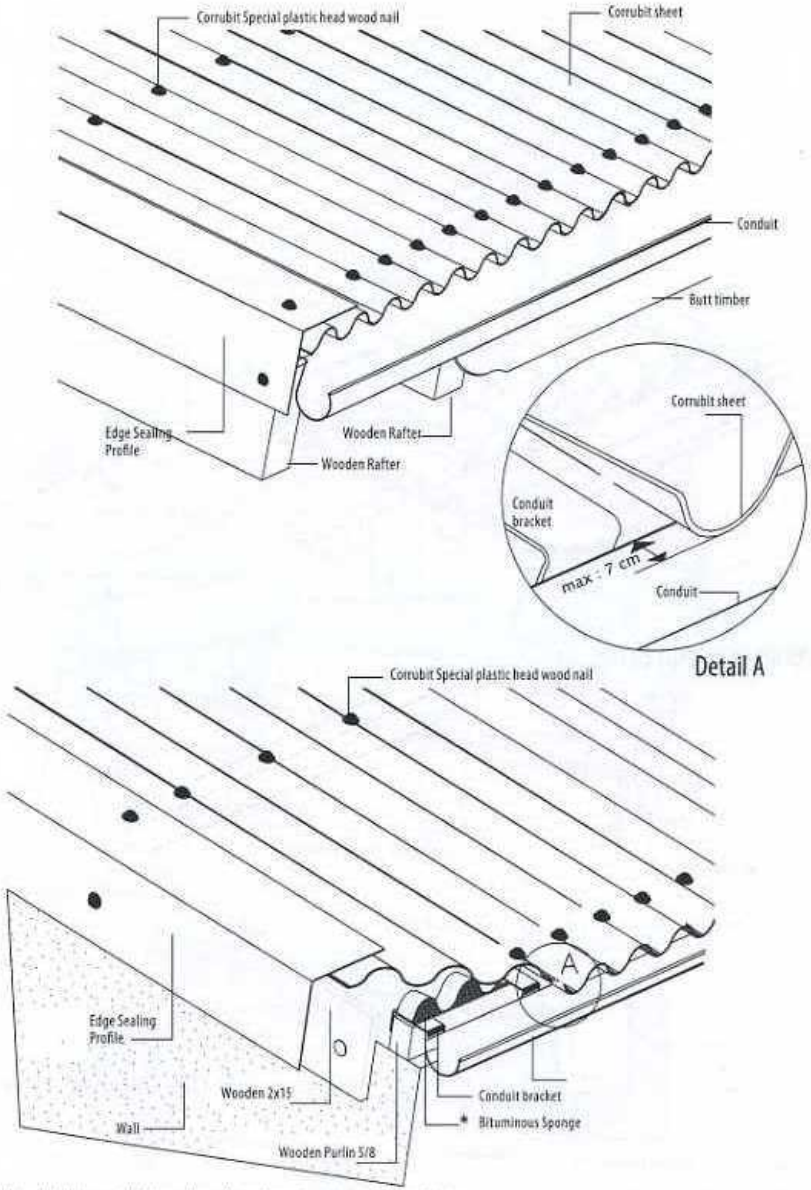
HORIZANTAL AND INCLINED RIDGE



BASEBOARD DETAIL



EDGE DETAIL



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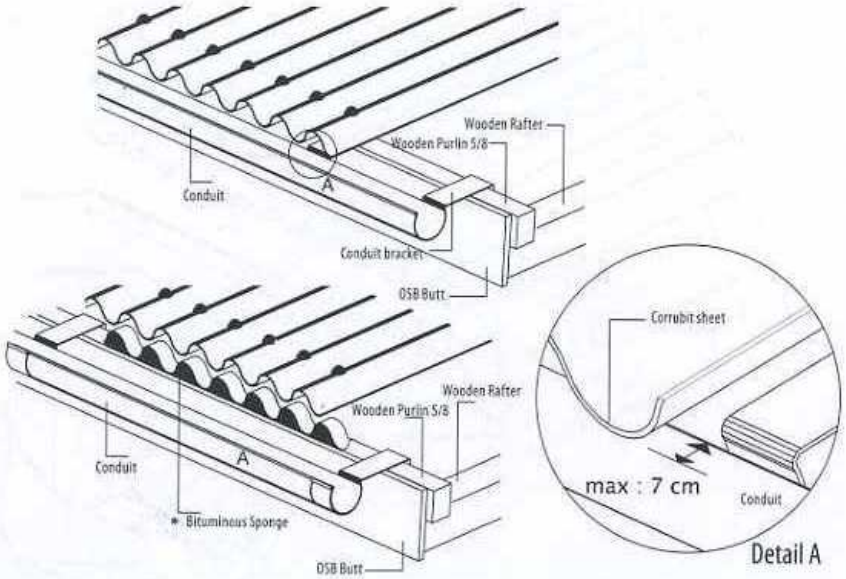
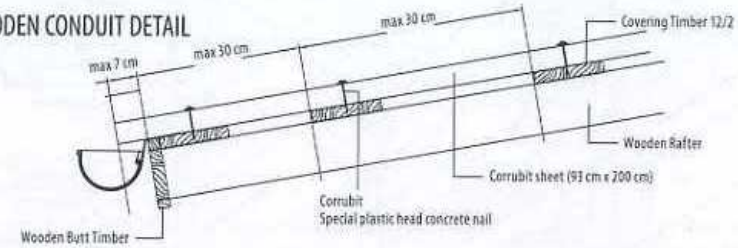
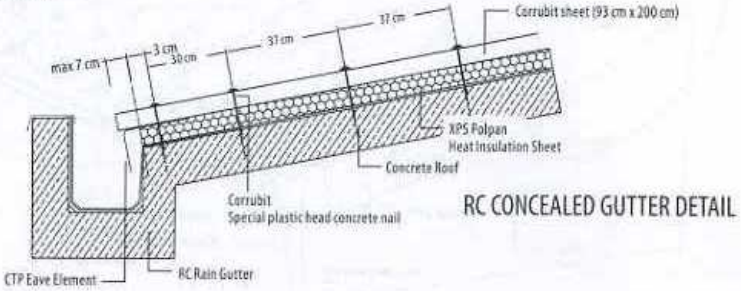
Ventilation requirements should be observed in applying bituminous sponge for impermeability of eaves, horizontal and vertical ridges

CONDUIT – CONCEALED GUTTER DETAIL



WOODEN CONDUIT DETAIL

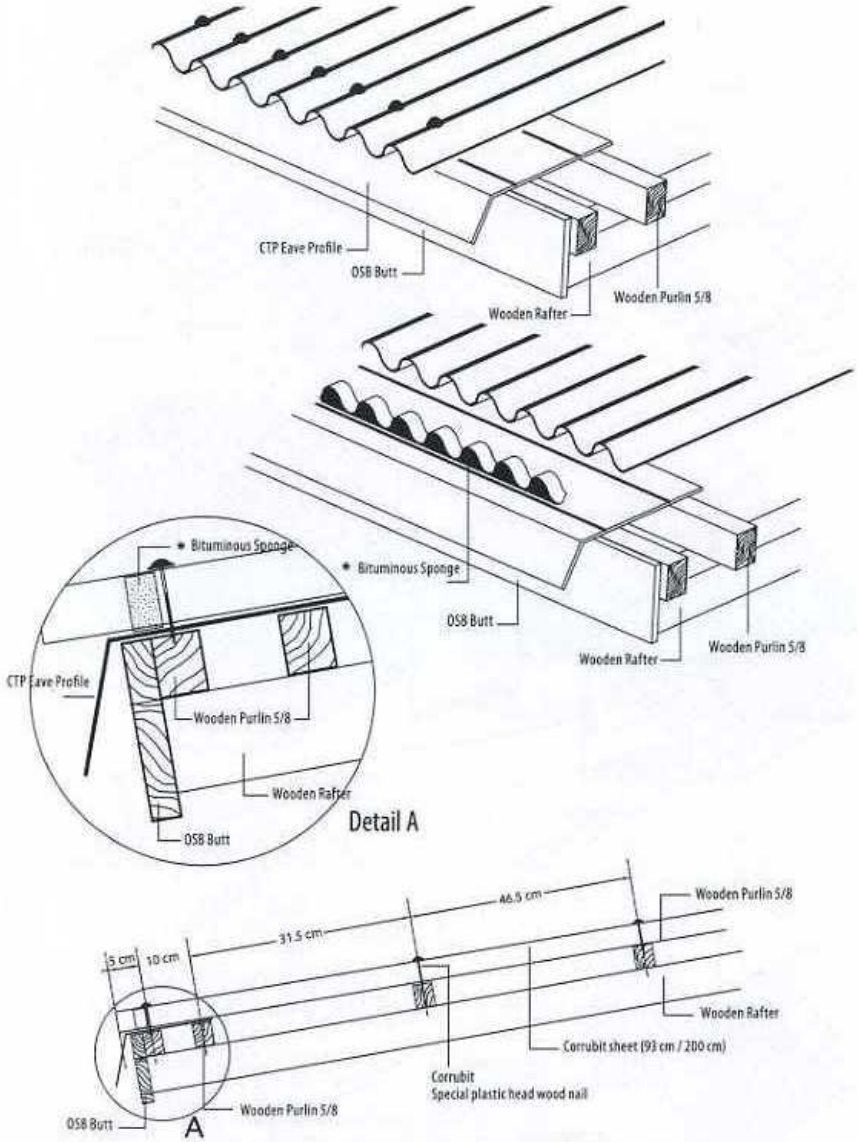




RC CONCEALED GUTTER DETAIL

* Ventilation should be provided to avoid condensation and moisture in the roof space
Ventilation requirements should be observed in applying bituminous sponge for impermeability of eaves, horizontal and vertical ridges

EAVE DETAIL



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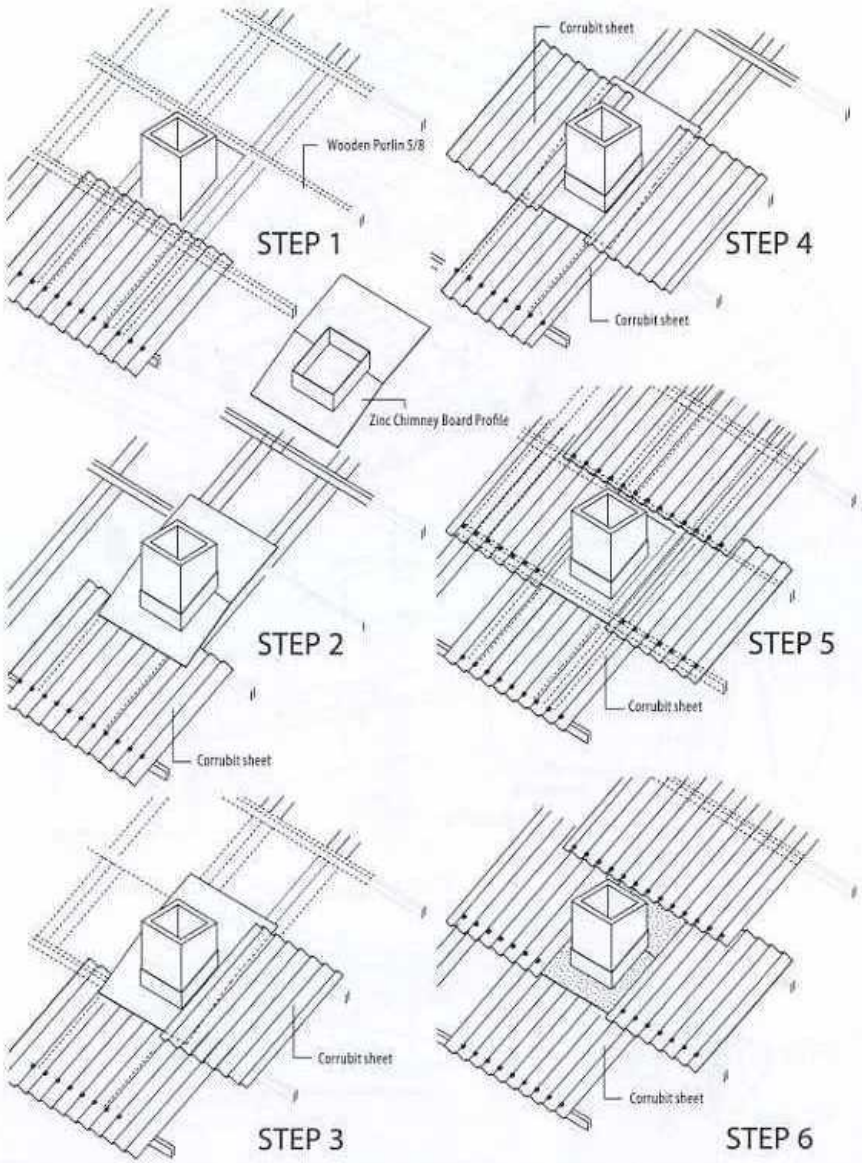
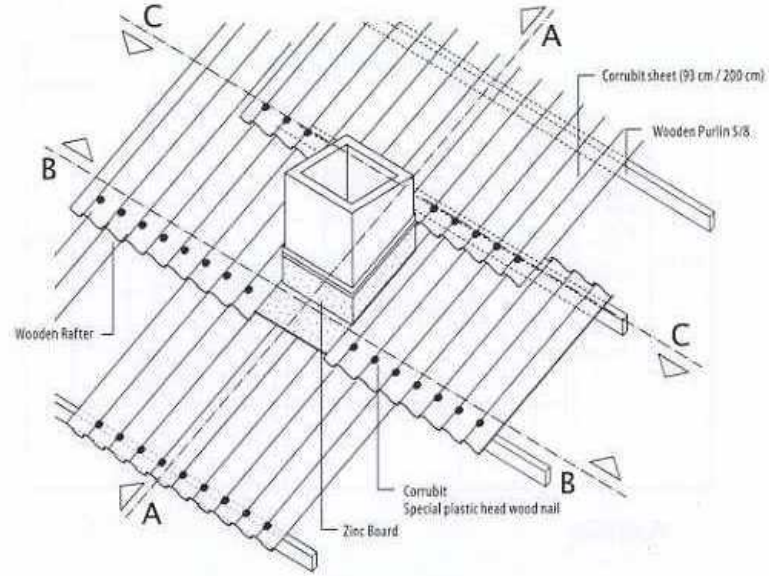
Ventilation requirements should be observed in applying bituminous sponge for impermeability of eaves, horizontal and vertical ridges

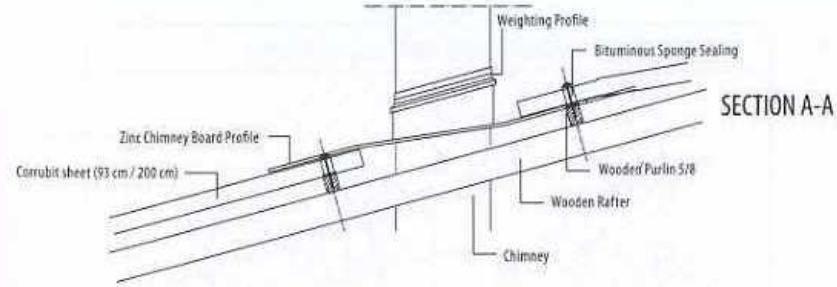
CHIMNEY BOARD DETAIL

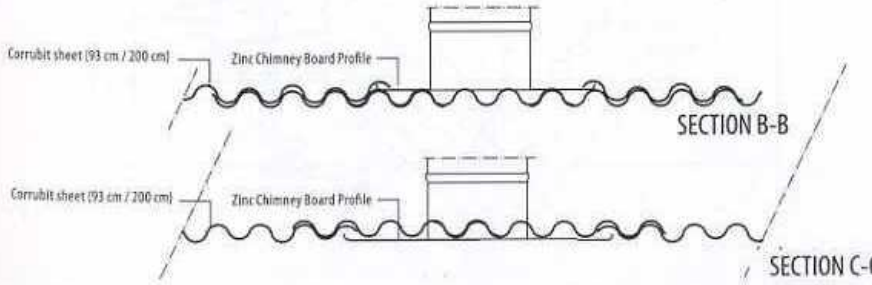


do not scale

CHIMNEY BOARD DETAIL
(Zinc)

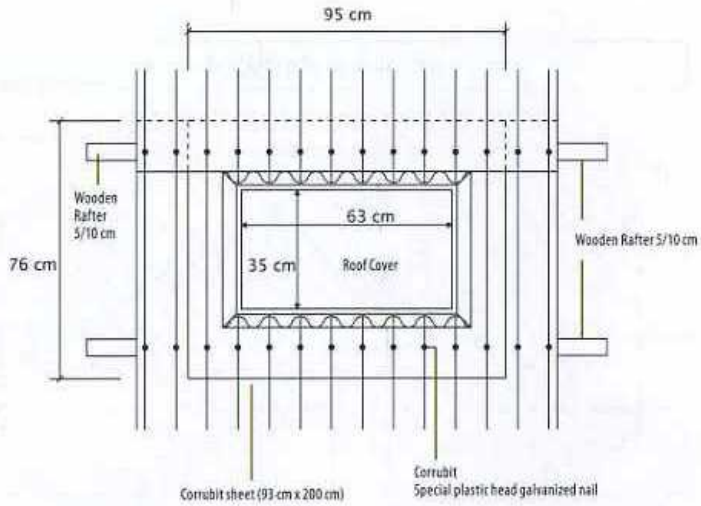




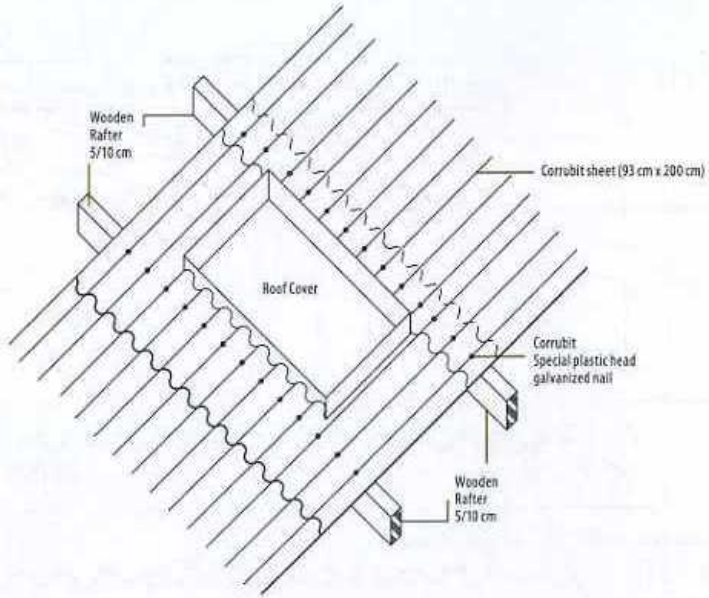


do not scale

ROOF COVER DETAIL

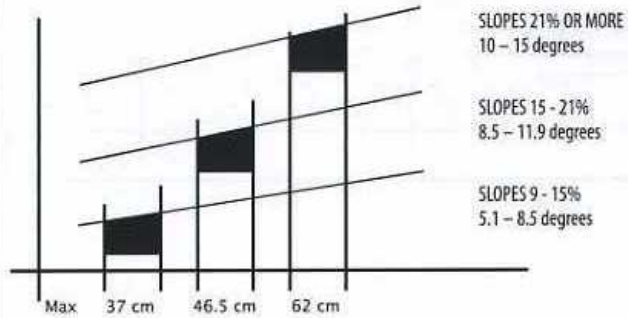


PLAN VIEW

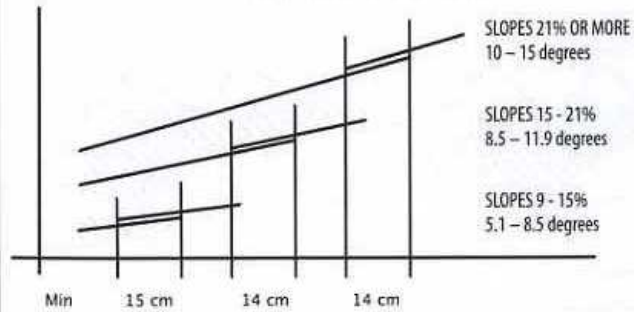


CONSIDERATIONS FOR APPLICATION

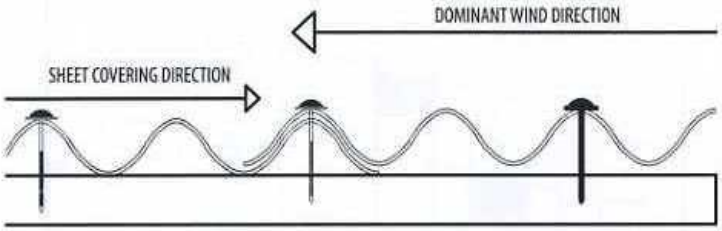
AXIAL SPACING FOR PURLINS

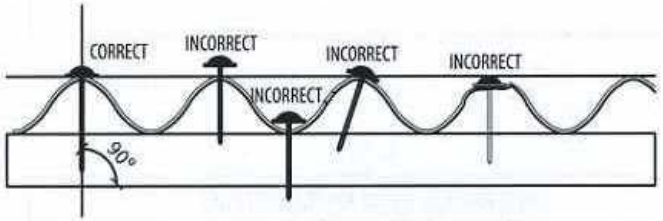


LONGITUDINAL OVERLAPPING DISTANCE

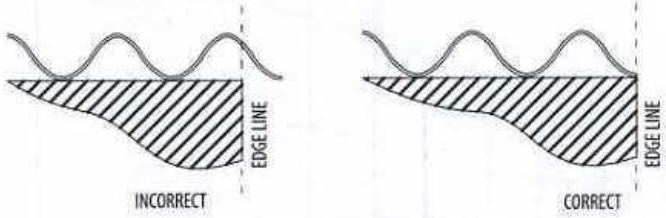


CONSIDERATIONS FOR APPLICATION



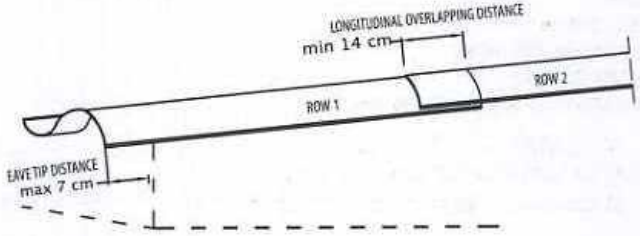


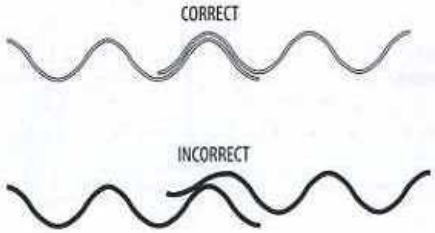
REGULAR NAILING



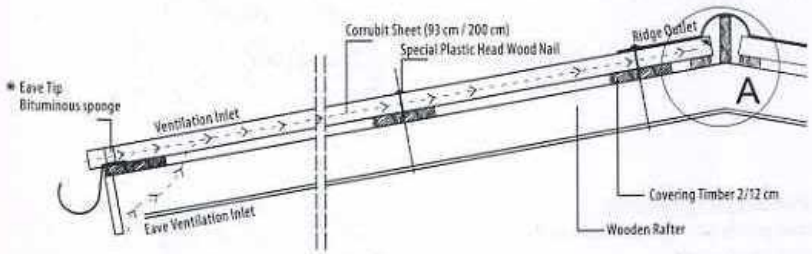
CONSIDERATIONS FOR APPLICATION

LONGITUDINAL OVERLAPPING DISTANCE





VENTILATION



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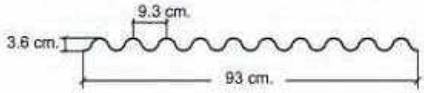
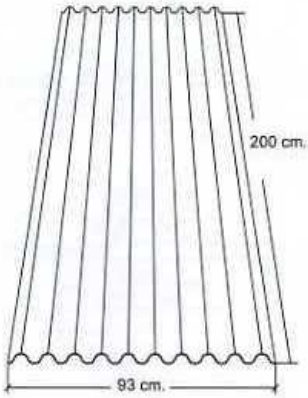
Ventilation requirements should be observed in applying bituminous sponge for impermeability of eaves, horizontal and vertical ridges

CORRUBIT ACCESSORIES

Corrubit:

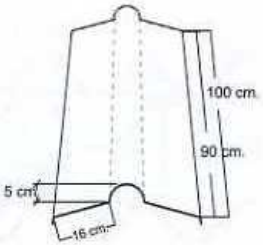
Format: 93 / 200 cm
Net Covering Area: 1,55 m2/pc
Sheet Weight: 5,8 kg/pc
Thickness: 2,4 mm Corrugation: 93/36 mm





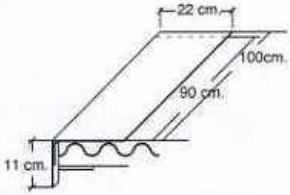
Ridge Accessory:

Length: 100 cm and 200 cm
Overlapping Distance: 10 cm
Top Height: 5 cm
Folding Length: 16 cm



Edge Sealing Accessory:

Length: 100 cm
Overlapping Distance: 10 cm



Eave Sealing Profile:

Offers protection against pests and moisture on eaves.
Special ventilation accessories should be used for ventilation if the eaves are to be closed