WATAN ELECTRIC

وطن اليكتريك
للصناعات الكهربائية
WE
FOR TRADING
&
ELECTREC WORK

CABLE TRAYS

CABLE TRUNKS

CABLE TRAYS SUPPORT SYSTEM

watanelectric.com

INTRODUCTION

- **Watan Electric** Company for Electrical Industries specialized in the field of pressure plates and small details
- We also manufacture cable tray and cable ladder galvanizing on Ali and cold galvanizing
- We also manufacture blank panels of all sizes, as well as panels, panels and control panels, and we also have operation for others (StoriesWeld_paint) Watan Electric has been operating in the Egyptian market in the field of panels since 2010 and in electrical children in 1995, and we have a highly trained work team (Our motto is customer satisfaction)
- All products are designed by CAD software and manufactured by modern CNC machines technology.

Technical Information

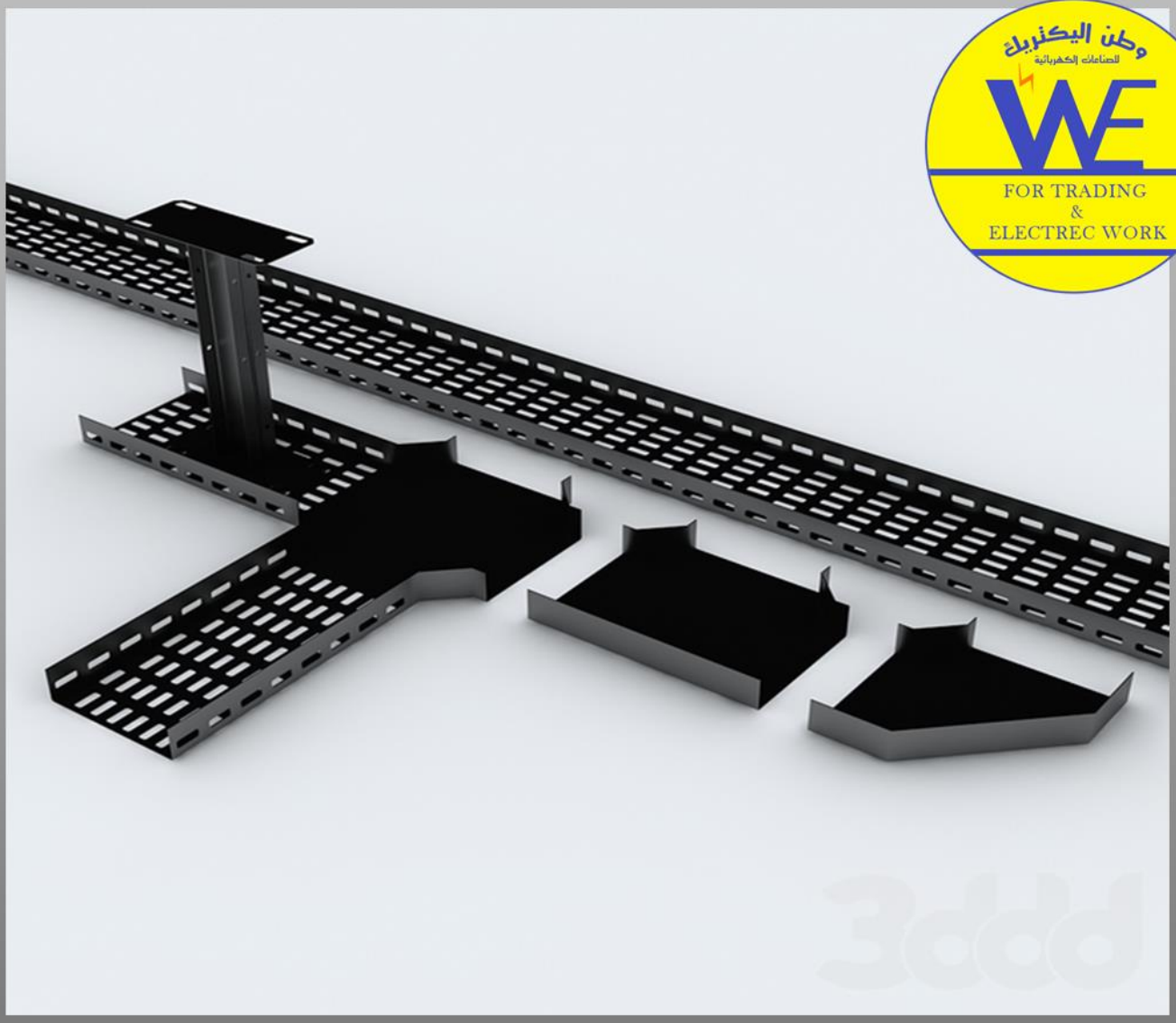
Material:

1- **Stainless steel: we provide in Watan Electric Company stainless steel systems for special applications like food industry for example. steel characterized by a remarkable corrosion resistance. The resistance is due to the presence of alloying elements such as chromium and nickel.**
2- **Sheet steel: Watan Electric company provides systems made of sheet steel for many applications.**

Surface Treatment:

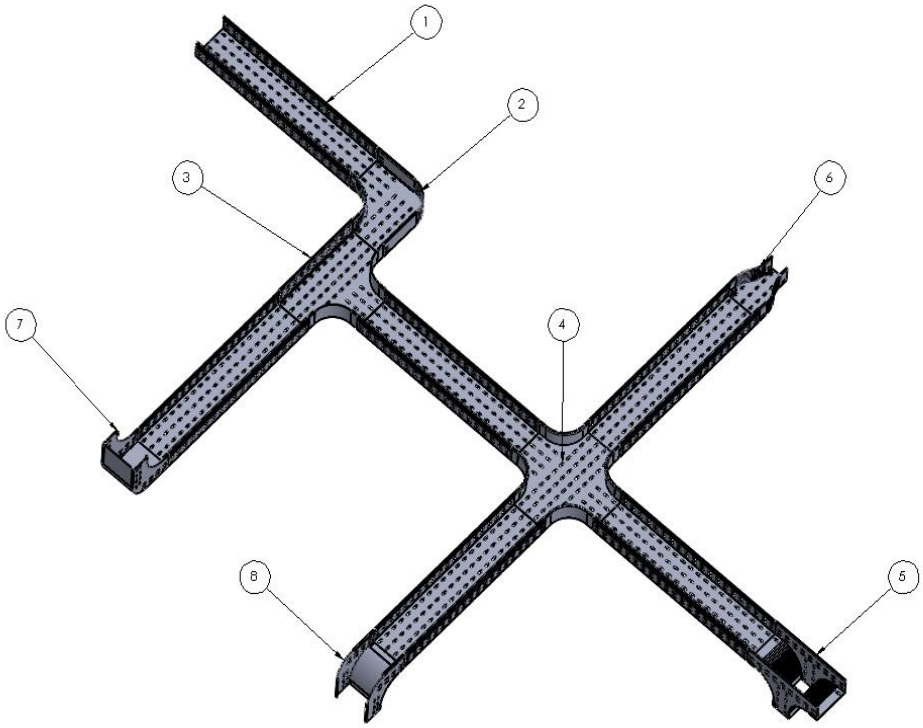
1- **Hot dip galvanized before fabrication (according to EN 10327). The plates of sheet steel normally used for the production of cable trays have a zinc coating thickness that is suitable for the application is used for.**
2- **Hot dip galvanized after fabrication: It is a protection process applied to a finished product covering its entire surface. The products of these process are suitable for outdoor purpose.**
3- **PAINTED STEEL: Painting consists of a surface coating applied on either galvanized steel or after-fabrication hot-dip galvanized steel cable trays. Standard treatment involves the application of thermosetting polyester powder on the surface of the products by means of electrostatic systems. Powders polymerize in the oven at a temperature of about 180° / 200° C. The coating thickness is about 70-90 microns and there's many colours can be used.**

CABLE TRAYS



CABLE TRAYS
STANDARD CABLE TRAY DIMENSIONS
STANDARD CABLE TRAYHORIZENTAL BENDS 90° CONNECTION
STANDARD CABLE TRAY HORIZANTAL BEND 45° CONNECTION
STABDARD CABLE TRAY REDUCER CONNECTION
STANDARD CABLE TRAY HORIZONTAL T CONNECTION
STANDARD CABLE TRAY X CONNECTION
CABLE TRAY FALLING CONNECTION
CABLE TRAY RAISER CONNECTION

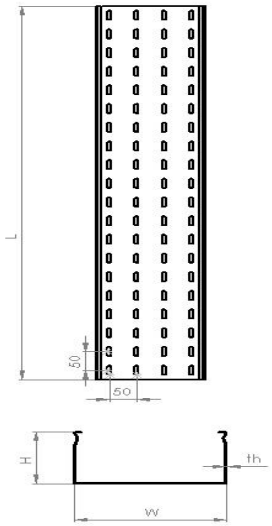
CABLE TRAYS SYSTEM

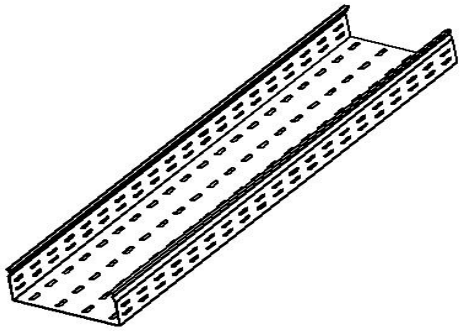


1. **CABLE TRAY**
2. **L 90^{O} Horizontal**
3. **Horizontal T**
4. **Horizontal cross**
5. **T faller**
6. **Middle reducer**
7. **Vertical raiser 90^{O}**
8. **Vertical faller 90^{o}**
9. **Covers**

CABLE TRAYS

Standard Cable Tray Dimensions:





Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

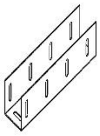
Thickness (mm) : th=1.0-1.25-1.5-2

Length (mm) : L=300

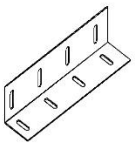
We can provide another dimension as they requested

There are three designs of connectors between cable trays

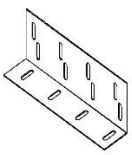
1. **For cable tray 50*50 mm**



2. **For cable tray H=50mm**

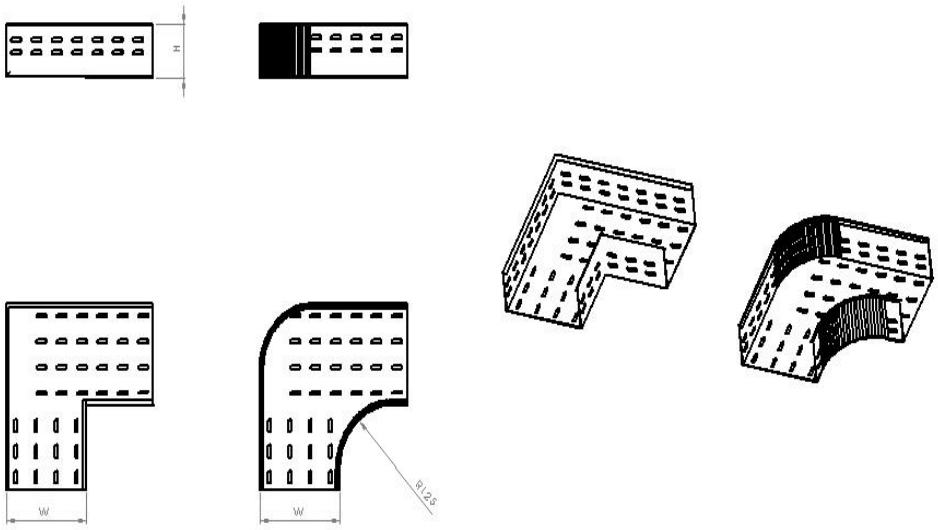


3. **For cable tray H=75-100mm**



L 90^{O} HORIZONTAL

Standard L 90^{O} Horizontal Dimensions:



Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

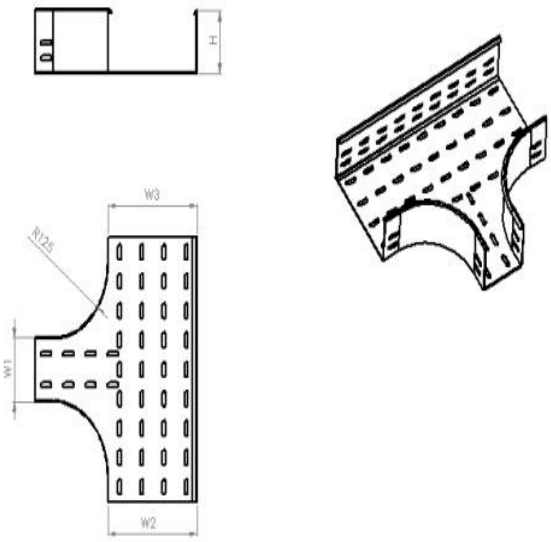
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter could be 0 or 125 mm

We can provide another dimension as they requested

HORIZONTAL T

Standard Horizontal T Dimensions:



Width (mm) : W1-W2-W3 =50-100-150-200-300-400-500-600-800-1000

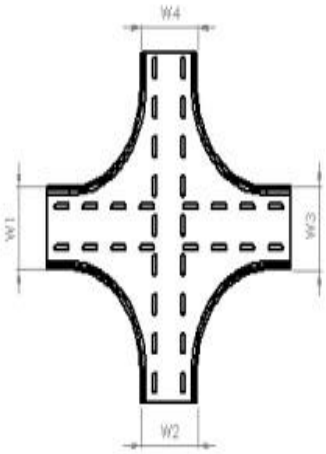
Height (mm) : H= 50-75-100

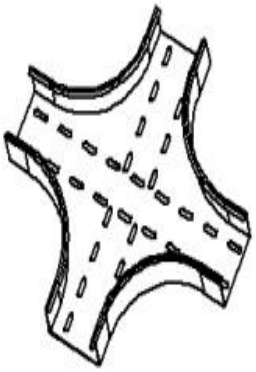
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

HORIZONTAL CROSS





Width (mm) : W1-W2-W3-W4 =50-100-150-200-300-400-500-600-800-1000

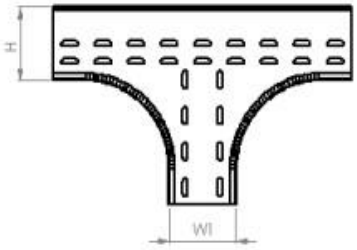
Height (mm) : H= 50-75-100

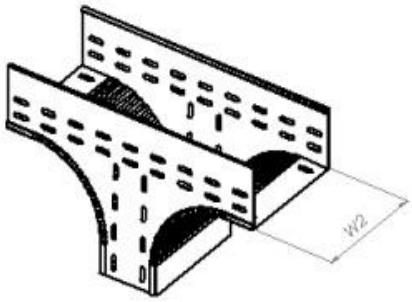
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

T FALLER





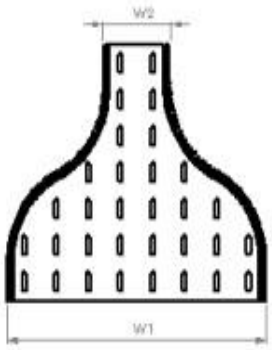
Width (mm) : W1-W2 =50-100-150-200-300-400-500-600-800-1000

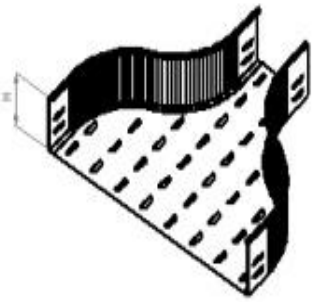
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

MIDDLE REDUCER





Width (mm) : W1-W2 =50-100-150-200-300-400-500-600-800-1000

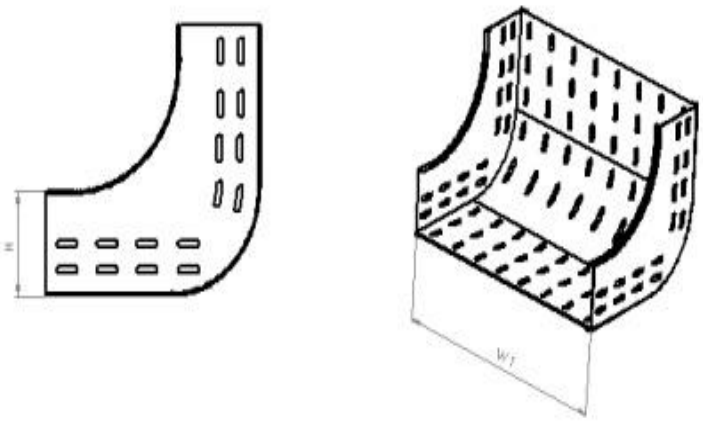
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

VIRTICAL RISER



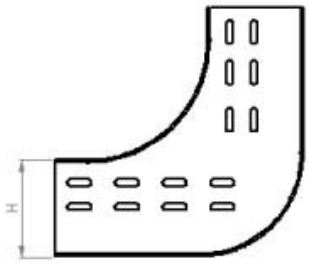
Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

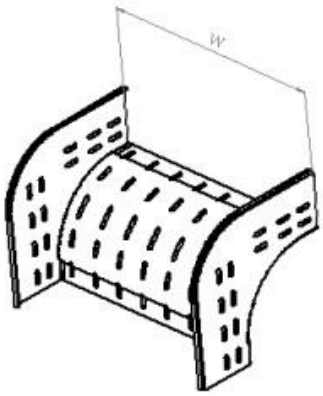
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

VIRTICAL FALLER





Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

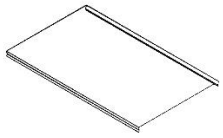
Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

COVERS

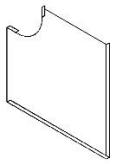
We provide covers suite every part of cable tray system.

1. **Cable tray cover**

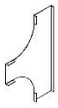


2. **L90^{o} cover (R125)**

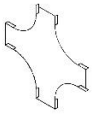
2.L 90^{O} cover (R0)



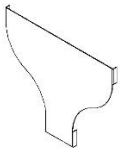
3. **T cover**



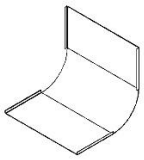
4. **Horizontal cross cover**



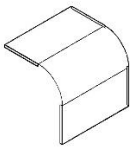
6.Reducer cover



7. Horizontal riser cover



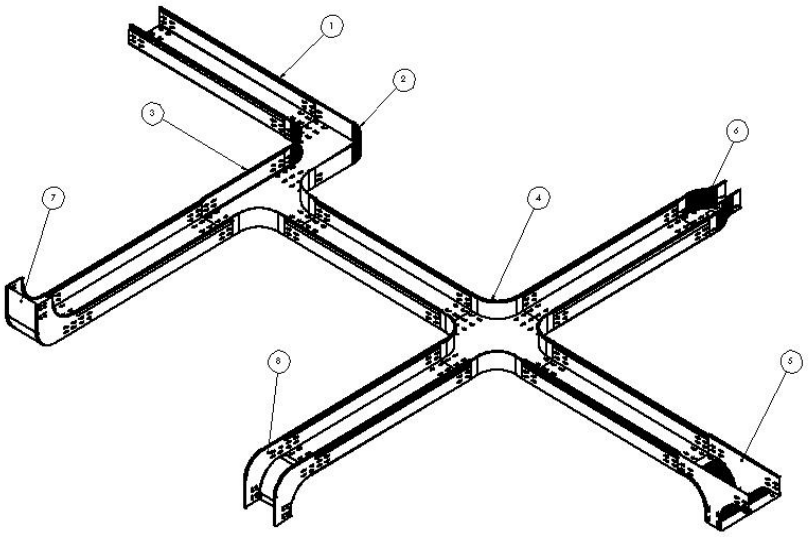
8. Horizontal faller cover



CABLE TRUNKS

CABLE TRUNKS
STANDARD CABLE TRUNKS DIMENSIONS
STANDARD CABLE TRUNK HORIZONTAL L 90^{O} CONNEC-TION
STANDARD CABLE TRUNK REDUCER CONNECTION
STANDARD CABLE TRUNK HORIZONTAL T CONNECTION
CABLE TRUNK HORIZONTAL X CONNECTION
CABLE TRUNK FALLER
CABLE TRUNK RAISER

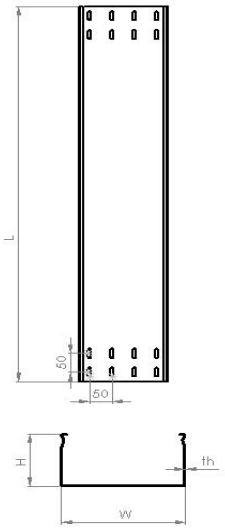
CABLE TRUNKS SYSTEM

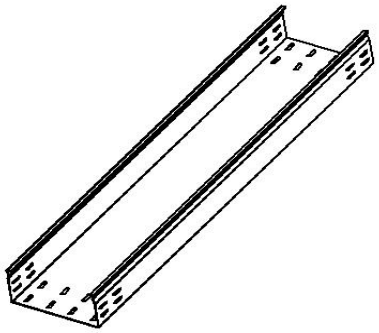


1. **CABLE TRUNK**
2. **L 90^{O} Horizontal**
3. **Horizontal T**
4. **Horizontal cross**
5. **T faller**
6. **Middle reducer**
7. **Vertical raiser 90^{O}**
8. **Vertical faller 90^{o}**
9. **Covers**

CABLE TRUNKS

Standard Cable Trunk Dimensions:





Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

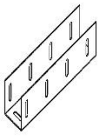
Thickness (mm) : th=1.0-1.25-1.5-2

Length (mm) : L=300

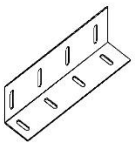
We can provide another dimension as they requested

There are three designs of connectors between cable trunks

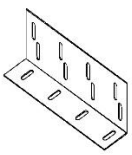
4. **For cable trunk 50*50 mm**



5. **For cable trunk H=50mm**

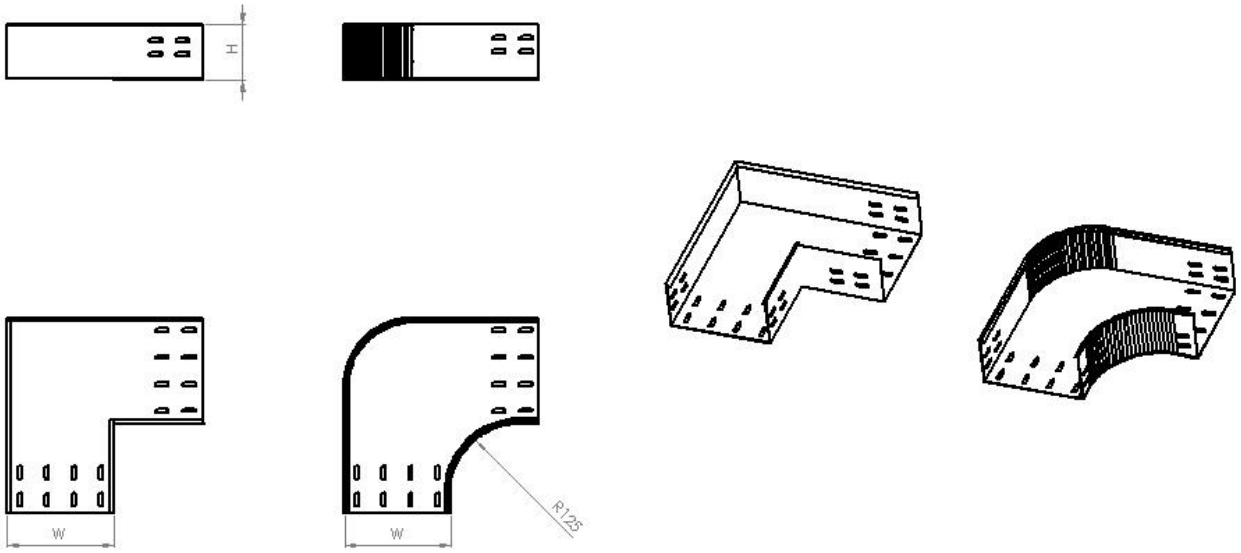


6. **For cable trunk H=75-100mm**



L 90^{O} HORIZONTAL

Standard L 90^{O} Horizontal Dimensions:



Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

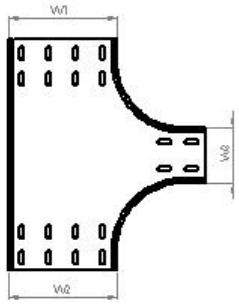
Thickness (mm) : th=1.0-1.25-1.5-2

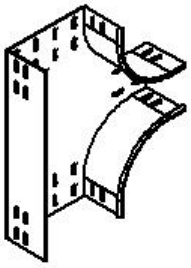
Inside and outside diameter could be 0 or 125 mm

We can provide another dimension as they requested

HORIZONTAL T

Standard Horizontal T Dimensions:





Width (mm) : W1-W2-W3 =50-100-150-200-300-400-500-600-800-1000

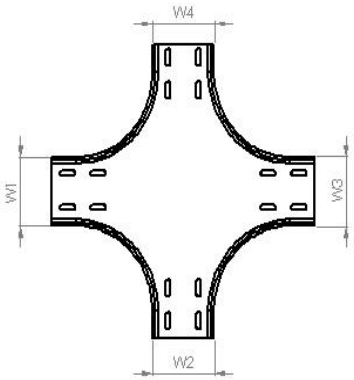
Height (mm) : H= 50-75-100

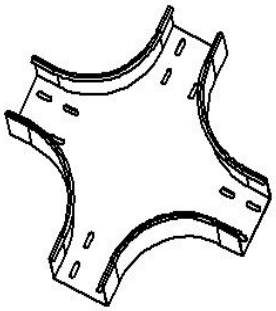
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

HORIZONTAL CROSS





Width (mm) : W1-W2-W3-W4 =50-100-150-200-300-400-500-600-800-1000

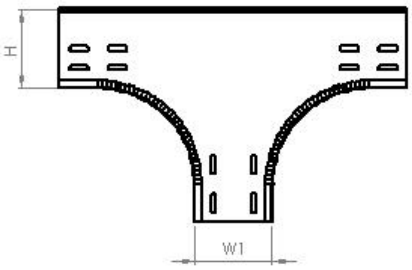
Height (mm) : H= 50-75-100

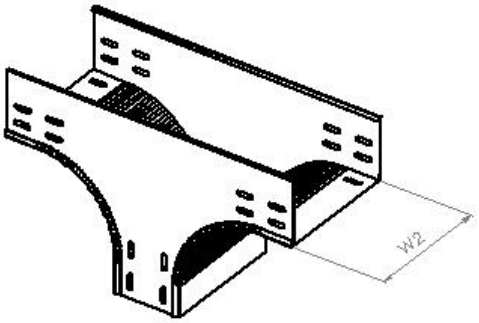
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

T FALLER





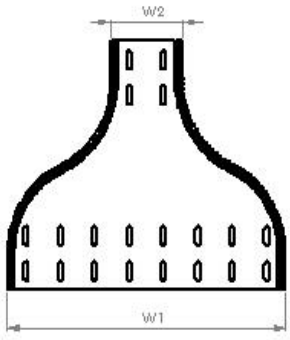
Width (mm) : W1-W2 =50-100-150-200-300-400-500-600-800-1000

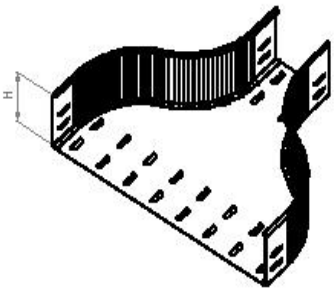
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

MIDDLE REDUCER





Width (mm) : W1-W2 =50-100-150-200-300-400-500-600-800-1000

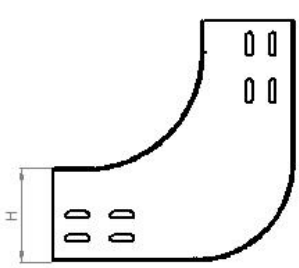
Height (mm) : H= 50-75-100

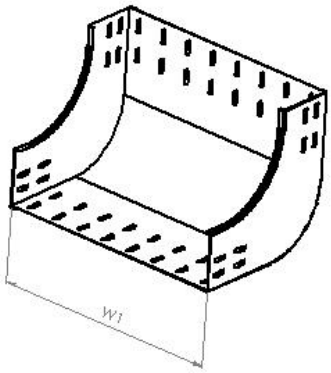
Thickness (mm) : th=1.0-1.25-1.5-2

Inside and outside diameter is 125 mm

We can provide another dimension as they requested.

VIRTICAL RISER





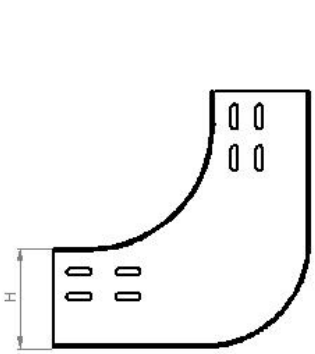
Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

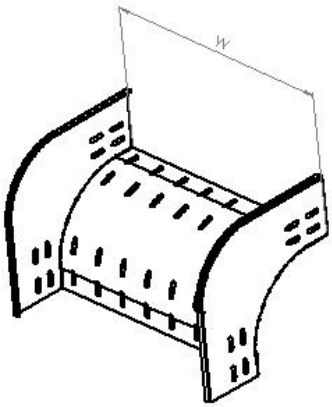
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

VIRTICAL FALLER





Width (mm) : W=50-100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

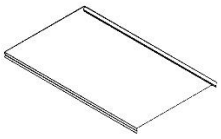
Thickness (mm) : th=1.0-1.25-1.5-2

We can provide another dimension as they requested.

COVERS

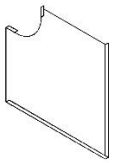
We provide covers suite every part of cable trunk system.

1. **Cable tray cover**

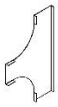


2. **L90^{o} cover (R125)**

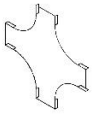
2.L 90^{O} cover (R0)



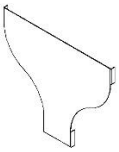
3. **T cover**



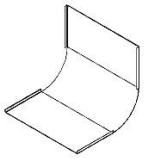
4. **Horizontal cross cover**



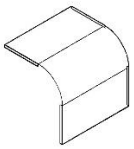
6.Reducer cover



7. Horizontal riser cover



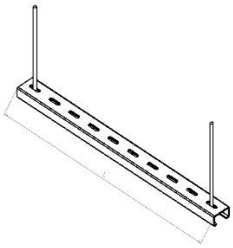
8. Horizontal faller cover



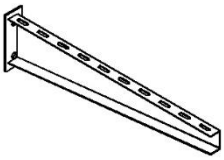
CABLE TRAY SUPPORT SYSTEM

وطن اليكتريك
للصناعات الكهربائية
WE
FOR TRADING
&
ELECTREC WORK

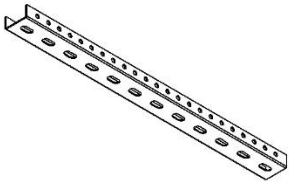
1. **CEILING MOUNTING:**



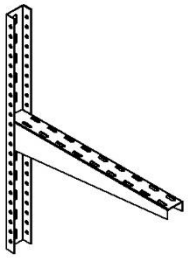
2. **WALL BRACKET:**



3. **Light KZ support**



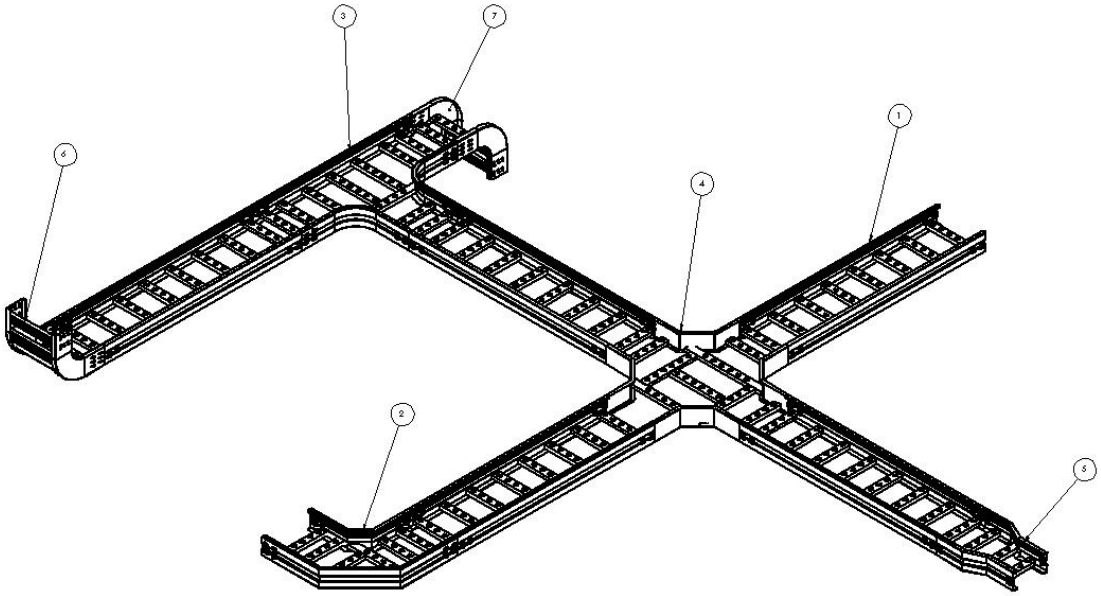
4. **KZ support bracket**



CABLE LEDDERS SYSTEM

CABLE LEERS
STANDARD CABLE LEDDERS DIMENSIONS
STANDARD CABLE LEDDERS HORIZONTAL L 90^{O} CONNECTION
STANDARD CABLE LEDDERS REDUCER CONNECTION
STANDARD CABLE LEDDERS HORIZONTAL T CONNECTION
CABLE TRUNK LEDDERS X CONNECTION
CABLE LEDDERS FALLER
CABLE LEDDERS RAISER

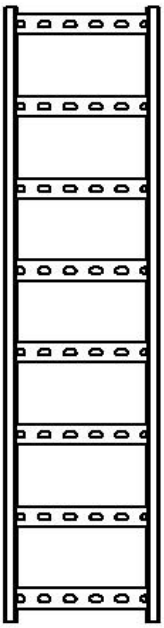
CABLE LEDDERS SYSTEM

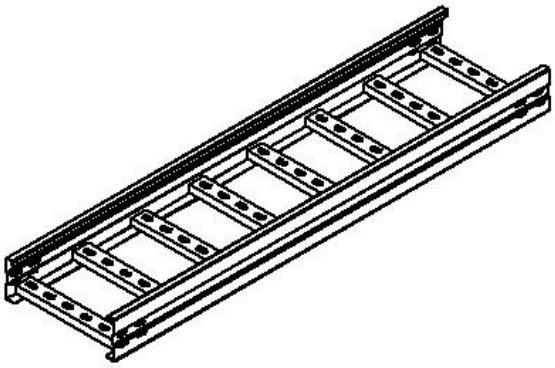


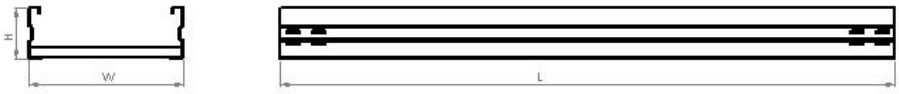
1. **Cable Ledder**
2. **L 90^{O} Horizontal**
3. **Horizontal T**
4. **Horizontal cross**
5. **Middle reducer**
6. **Vertical raiser 90^{O}**
7. **Vertical faller 90^{o}**

CABLE TRA

Standard Cable Ledder Dimensions:







Width (mm) : W=100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

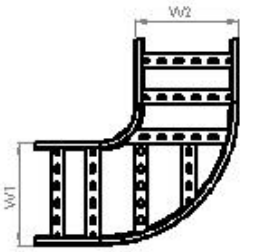
Thickness (mm) : th=1.25-1.5-2

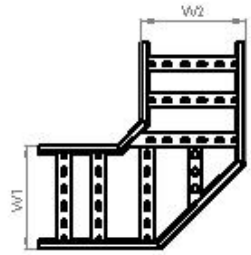
Length (mm) : L=300

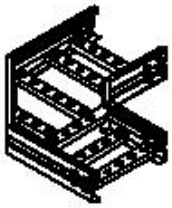
We can provide another dimension as they requested

L 90^{O} HORIZONTAL

Standard L 90^{O} Horizontal Dimensions:







Width (mm) : W=100-150-200-300-400-500-600-800-1000

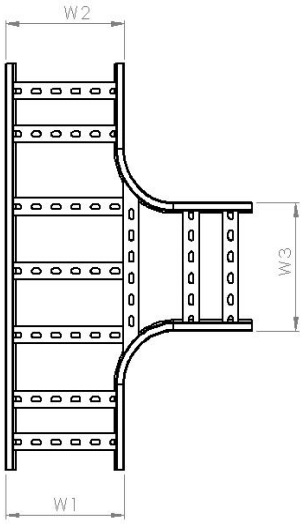
Height (mm) : H= 50-75-100

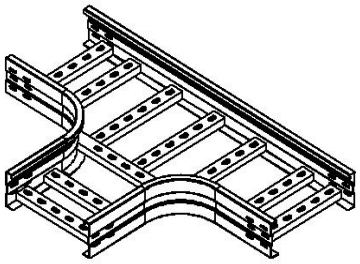
Thickness (mm) : th=1.25-1.5-2

We can provide another dimensions as they requested

HORIZONTAL T

Standard Horizontal T Dimensions:





Width (mm) : W1-W2-W3 =100-150-200-300-400-500-600-800-1000

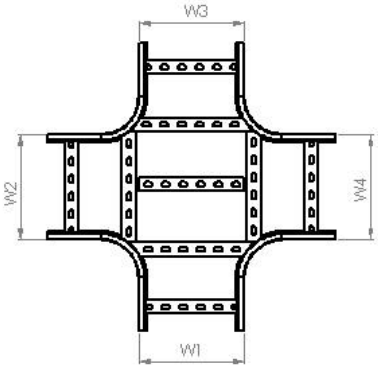
Height (mm) : H= 50-75-100

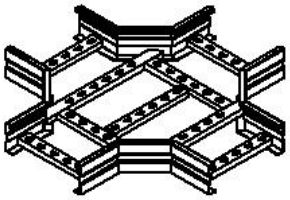
Thickness (mm) : th=1.0-1.25-1.5-2

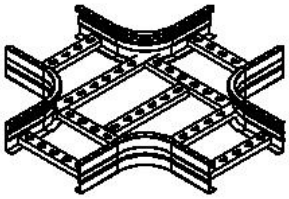
Diameter is 125 mm

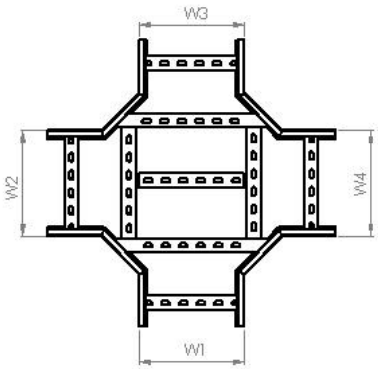
We can provide another dimension as they requested.

HORIZONTAL CROSS









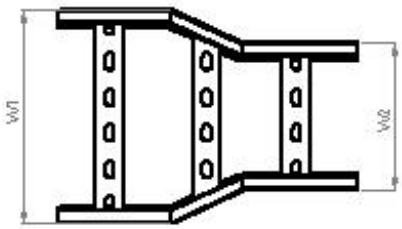
Width (mm) : W1-W2-W3-W4 =100-150-200-300-400-500-600-800-1000

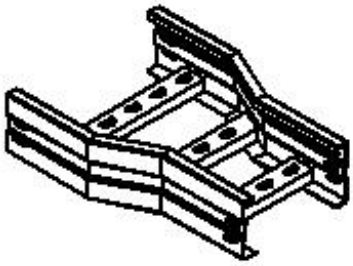
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.25-1.5-2

We can provide another dimension as they requested.

MIDDLE REDUCER





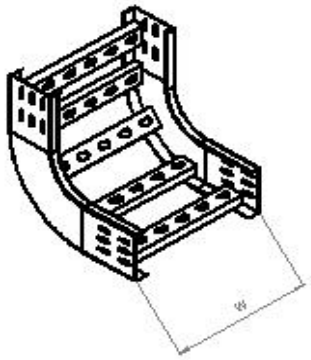
Width (mm) : W1-W2 =100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

Thickness (mm) : th=1.25-1.5-2

We can provide another dimension as they requested.

VIRTICAL RISER



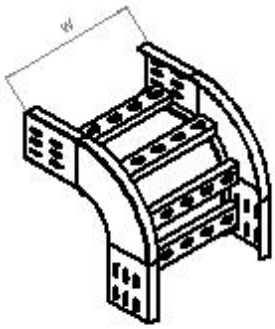
Width (mm) : W=100-150-200-300-400-500-600-800-1000

Height (mm) : H= 50-75-100

Thickness (mm) : th=1.25-1.5-2

We can provide another dimension as they requested.

VIRTICAL FALLER



Width (mm) : W=100-150-200-300-400-500-600-800-1000

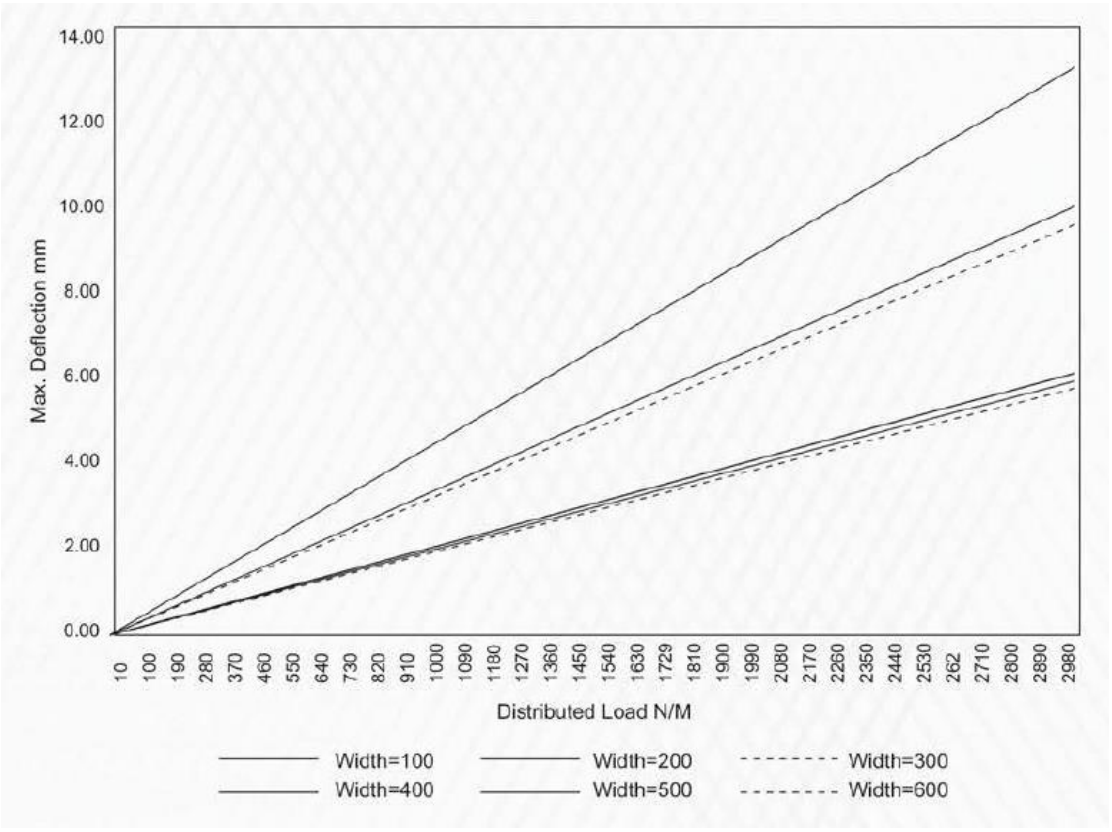
Height (mm) : H= 50-75-100

Thickness (mm) : th=1.25-1.5-2

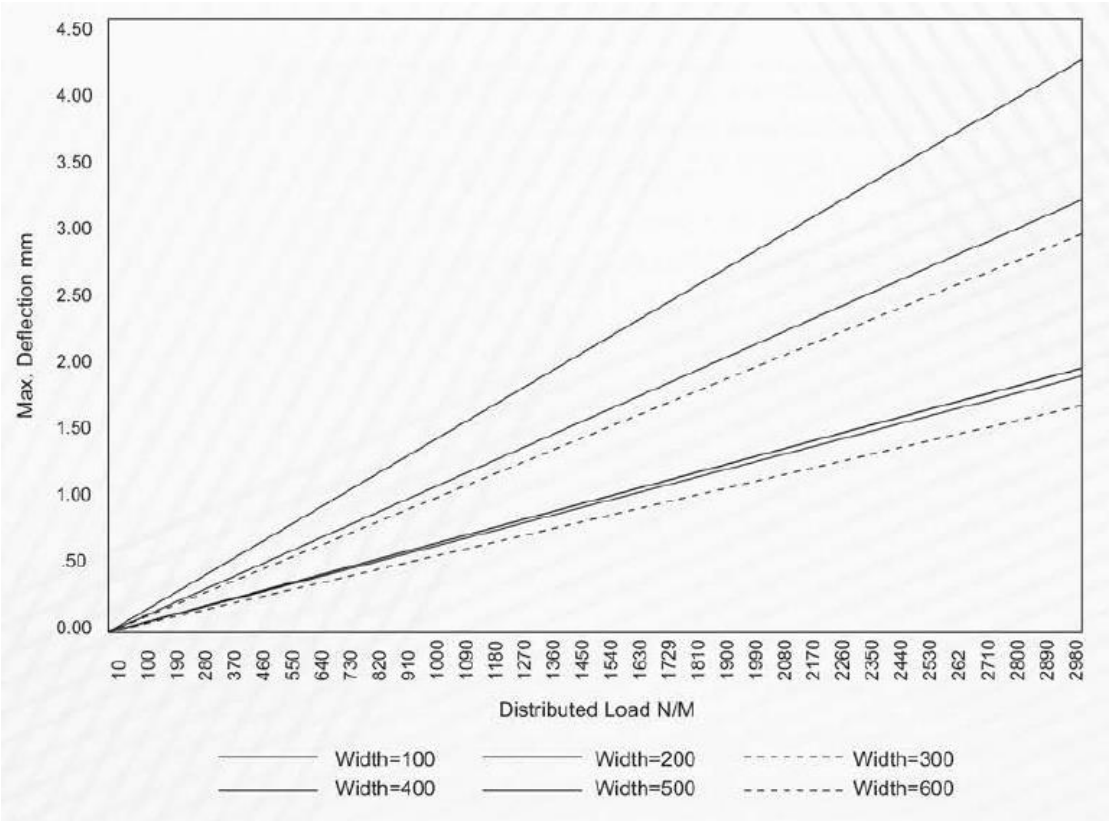
We can provide another dimension as they requested.

TECHNICAL DATA

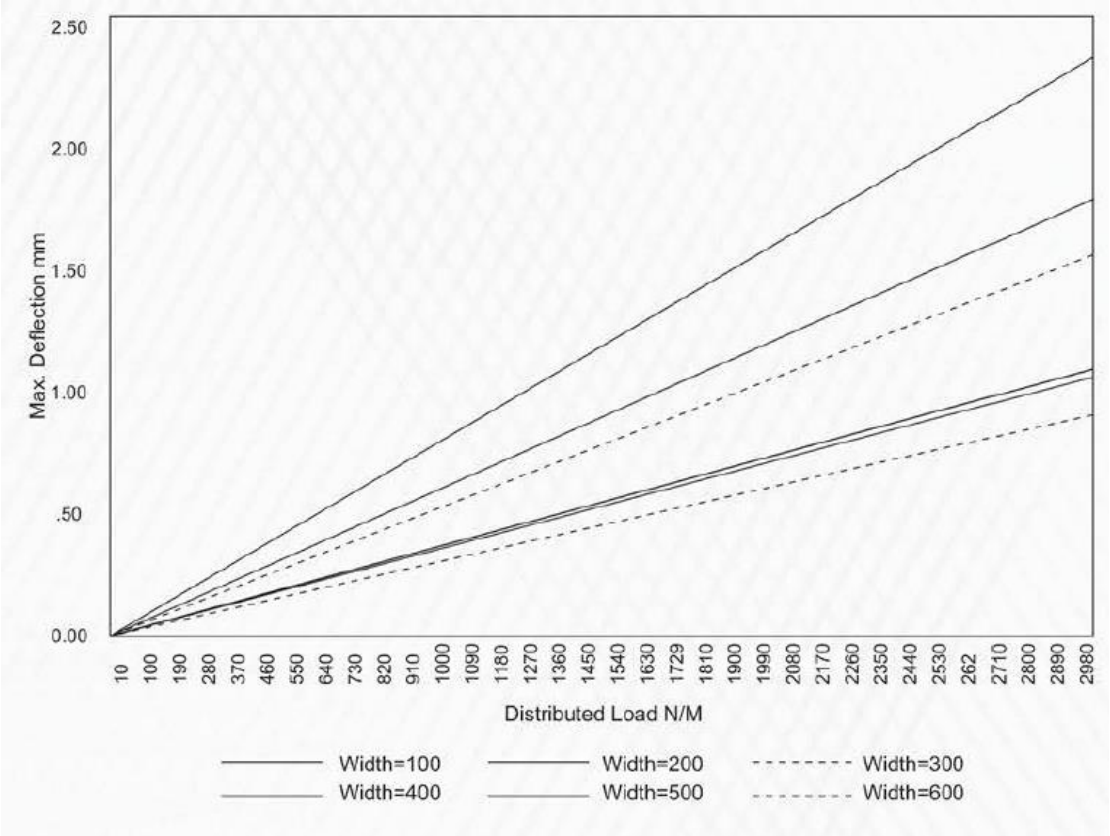
Cable tray height 50 mm



Cable tray height 75 mm



Cable tray height 100mm



A. **How to choose Tray , Trunk or Ledder?**
   Tray is suitable for most abblications, provide easy Cable laying and optimal protection of the cable.
   Trunk is suitable for cables with very low heat generation.
   Ladder is suitable for power cables for a higher degree of heat generation, and suitable for all types of cables outdoors or in areas with dirt occurrence.
B. **How to choose Tray , Trunk or Ladder height?**
   Depend on the cable size and cable type.
   How to detect Support spacing?
   Its recommended to use standard support point spacing 1.5 m.
C. **How to choose surface treatment?**
   According to the applications that the Tray , Trunk or Ladder is used for.