



▶ **Secure Optical Fiber Trunking  
(DESOF)** ◀

## **CABLE MANAGEMENT SYSTEM**

.....  
**SAFE • DURABLE • CUSTOMIZED**

**DK** **DAKONS**  
ENGINEERING PVT. LTD.

# Secure Optical Fiber Trunking (DESOFT)

## ABOUT US



Since its introduction, Dakons Engineering Pvt. Ltd. has proven to be the ideal choice for cable management in many types of installations. Dakons is one of the most quality oriented brands in India in Cable management sector. Our product has been providing effective, efficient and innovative cable management solutions. Dakons is committed to provide technical, logistical and sales support across India & abroad.

## MISSION OF QUALITY



Constantly striving to fulfill its mission to increase customer satisfaction, Dakons scrutinizes every step in the manufacturing process and applies strict procedures to ensure the highest possible quality in every product. We are an assessed & certified ISO 9001:2015 Quality management system. Dakons has developed a marketing and R & D strategy that offers installers and customers innovative products that combine reliability, safety and value.

## VISION



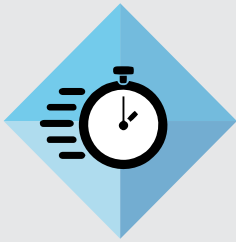
Dakons Engineering Pvt Ltd is started with a vision of creating an Indian brand offering world class quality & solutions in cable containment & support system for electrical & digital infrastructure.

## DAKONS & INDIAN MARKET



In recent years the use of quality cable management products has expanded in India and Dakons is setting the pace in product innovation, quality control and timely delivery by producing world class products in India. In 2024 Dakons came up with a dedicated manufacturing facility in Vasai, Maharashtra to service the Indian & other Asian markets. This commitment to our customers will help meet the demands of an ever-growing market.

## **REASONS TO CHOOSE DAKONS CABLE MANAGEMENT SOLUTIONS**



### **FAST**

Fast coupling Solution  
Time saving  
for more economy.



### **SAFE**

Products are designed  
keeping cable &  
installer safety in mind.



### **CUSTOMIZATION**

Adapts to the changing  
needs of the  
project very fast.



### **CUSTOMER SUPPORT**

Support our customers  
for product selection,  
installation, training & audits.



### **COMPLETE RANGE**

For every environment  
For all types of installations  
For all types of activities.



### **QUALITY**

The key strength of the  
brand is to ensure best quality  
products in its sector  
in accordance to IEC 61537  
& ISO 9001: 2015.



### **BETTER PRODUCTIVITY**

Time saving in  
installation saves  
installation cost &  
increases productivity.



### **AVAILABILITY**

Running items kept  
in stock standard lead  
time - 3 -4 weeks.

# Secure Optical Fiber Trunking (DESOF)

## Secure optical fiber trunking (DESOF) – systematic safety and efficiency

In the development of Dakons secure optical fiber trunking (DESOF) we always opt for high-quality virgin metal in combination with a well-thought-out system consisting of various accessory fittings, useful accessories and coordinated fastenings. This guarantees you a high level of flexibility and efficiency in the design of your individual trunking layout – and of course maximum protection & security for your cable installation. Thanks to the specific strengths of cable trunking system, we can offer you the perfect solution for your cable routing, regardless of whether you need to route a large number of cables over long distances, a small number of cables in limited installation space or cables for hygienic & protective application. Products are coated with highly trusted color brand to ensure durability of product. Every product we manufacture undergoes testing at various levels to ensure accuracy & offer the best quality product for our esteemed customers.

### Quality commitment

#### Paint and aesthetic appearance, practical use Polyester powder

For indoor dry environments, polyester powder paint on the raw (but treated) product has the advantage of increasing resistance to corrosion while improving its aesthetic appearance. It can also be useful for distinguishing between circuits. The shade should be specified on the order according to the RAL color chart. It can also be used as a barrier against corrosion.

#### Applicable atmospheric environment

Type of site	Applications	Aggression at atmosphere	Corrosive category according to ISO 9223	Type of Site
Working space/office/Data centers	Temperature controlled closed infrastructure VDI, supervision, control	Indoor humidity	C1	GS/EZ/ Powder coated
Public building	Closed infrastructure VDI, supervision, control	Indoor humidity	C1	GS/EZ/ Powder coated

### Equipotential bonding

Equipotential bonding is implemented between electrically conductive components with different levels of electrical potential. The primary purpose of this is to provide protection against electric shock but, at the same time, it protects the electrical equipment in the event of excess voltage. Over time, the effect of equipotential bonding has become ever more important in relation to electromagnetic compatibility (EMC). When electricity flows through conductors, it generates magnetic fields. Due to the large number of wiring systems installed in buildings, these can then have a negative effect on electromagnetic compatibility. Low potential differences are extremely important for ensuring that an electrical installation is electromagnetically compatible. In the case of DESOF these are assembled using bolted connections, we have knockout provisions around every coupler joint. Every joint can be equipped by using **DESOF** earthing set. To prevent contact between copper and zinc, the copper earth connection braid must not be in direct contact with steel cable trays due to galvanic couple corrosion. Earthing products are available for this purpose the equipotential bonding.

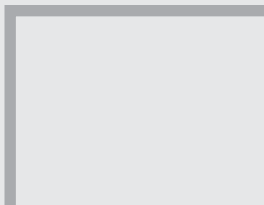
### Safety

A safety factor of 1.7 must be incorporated into the tested structures, as per the safety concept required under the test standard. The failure scenario possible as a result is not to an amount to the respective structure breaking. Rather, it involves the structure becoming so heavily deformed that no further increase in load can be registered. For this reason, the elastic-plastic deformability of metal cable support systems makes them preferable to brittle plastic systems that break easily.

Whenever you are planning cable management systems, it is important to consider that the filling capacity of cable trays may exceed their load-bearing capacity. Therefore, you must factor-insufficient reserves and where applicable plan using a multi-layered approach. In general filling capacity is planned with not more than 45% available cross section.



# Secure Optical Fiber Trunking (DESOFIT)



## Maximum fill capacity

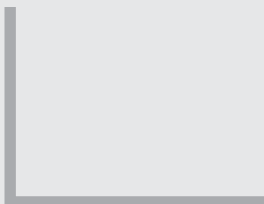
There is a general rule for calculating the fill capacity of a cable tray.

### Calculation principle:

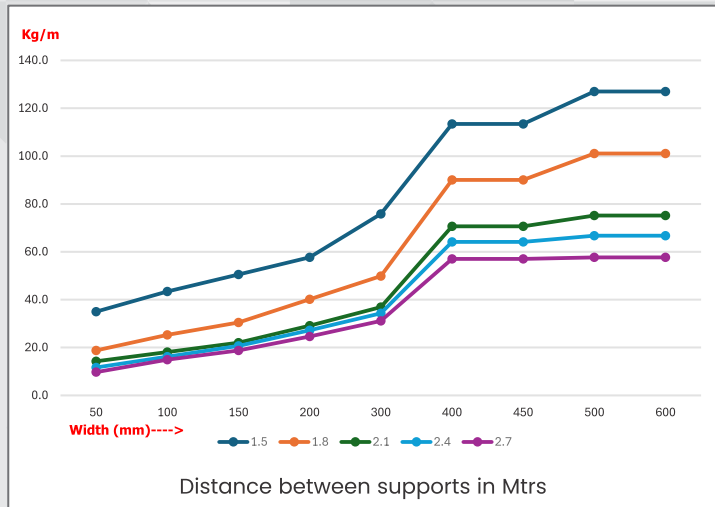
This works out the area of a cable tray cross-section. A full cable tray is deemed to contain a cable density of 0.25 kg/m/cm<sup>2</sup>.

Example: the area of a 150 x 600 cable tray cross-section (ie. 15 x 60 cm) is 900 cm<sup>2</sup> (taking account of the internal dimensions). As a general rule, its resulting fill capacity is 0.25 x 900 = 225 kg/m.

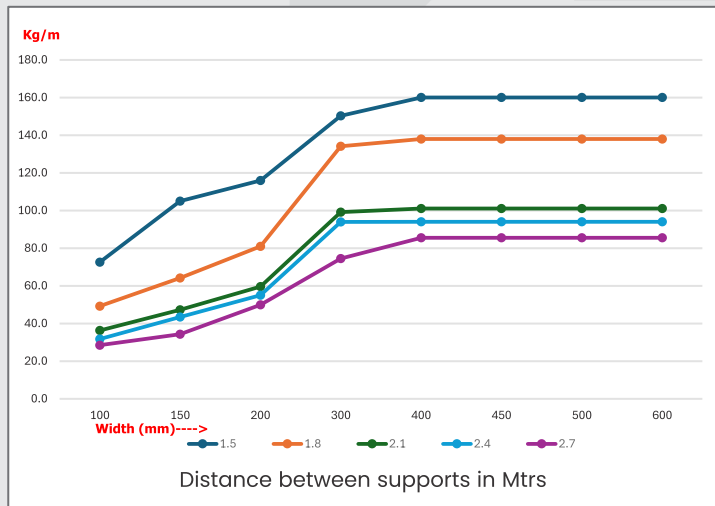
Note: Possible approximation 1 kgf = 1 daN (in reality 1 kgf = 0.98 daN)



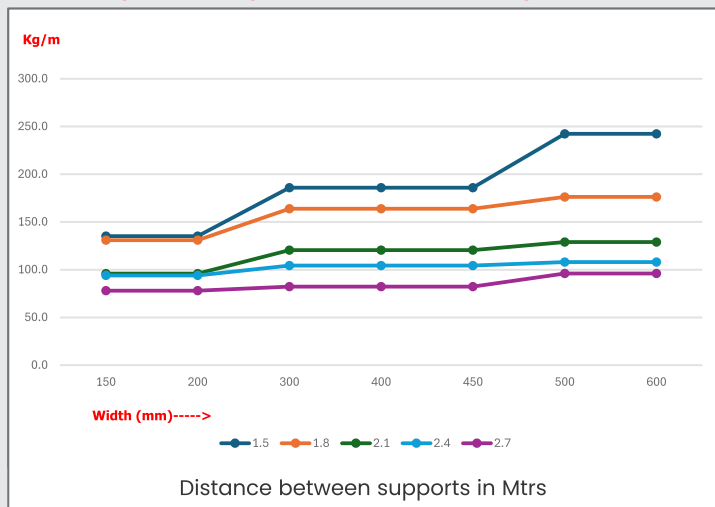
Weight bearing chart for 50 mm height DESOFIT



Weight bearing chart for 100 mm height DESOFIT



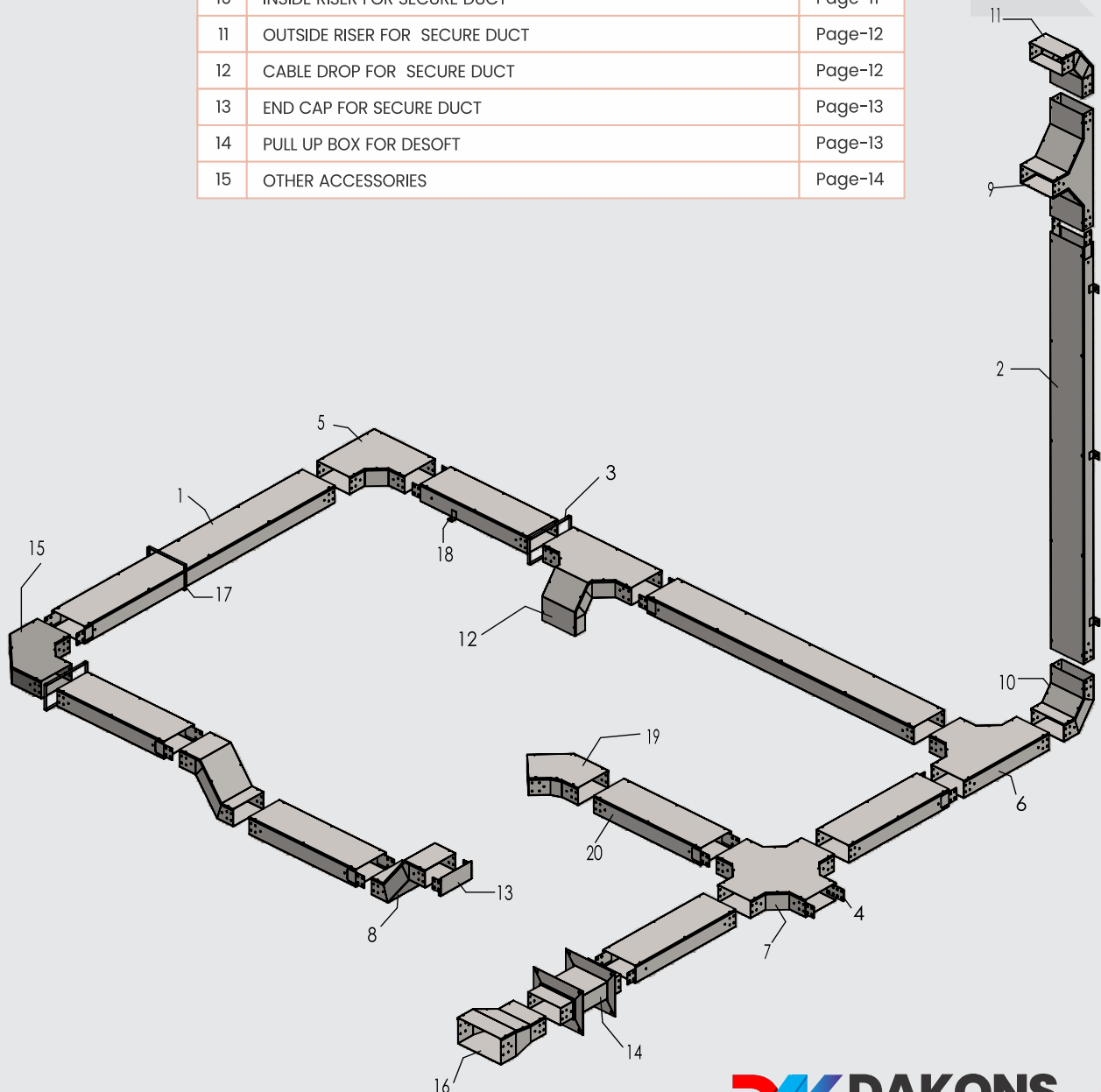
Weight bearing chart for 150 mm height DESOFIT



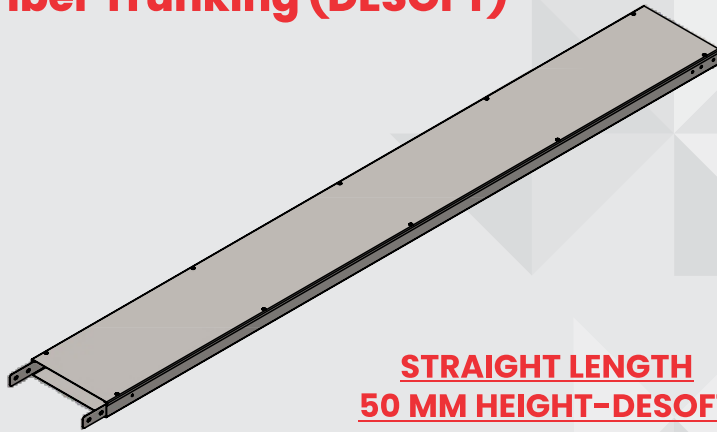
# Secure Optical Fiber Trunking (DESOF)

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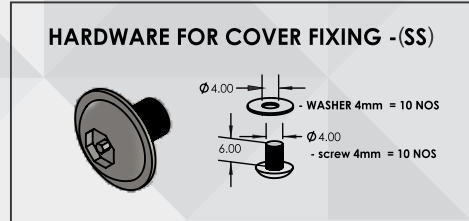
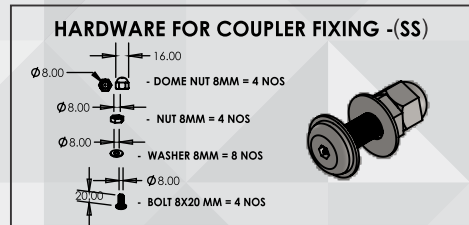
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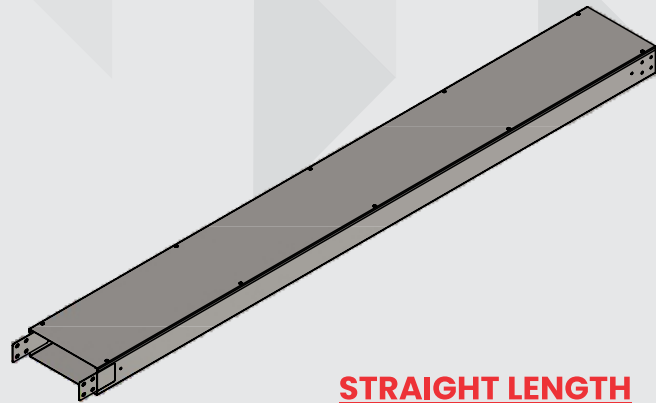
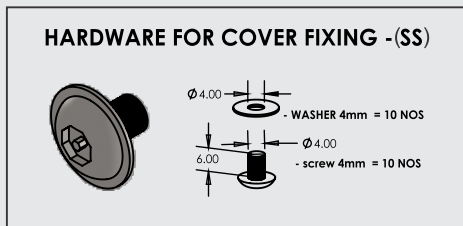
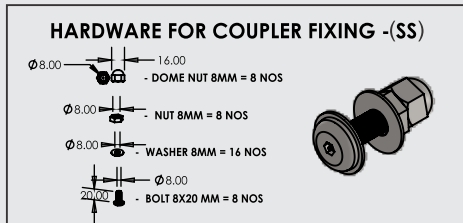
# Secure Optical Fiber Trunking (DESOF)



**STRAIGHT LENGTH  
50 MM HEIGHT-DESOF**

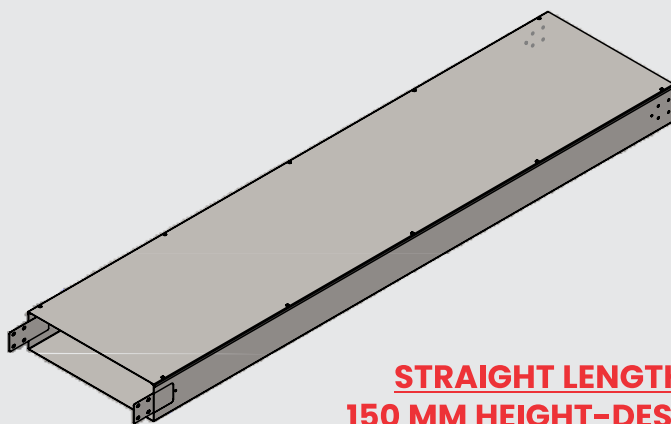


		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDXX052	2500	50-600		DESDXX052PC	DESDXX052HD	DESDXX052SS

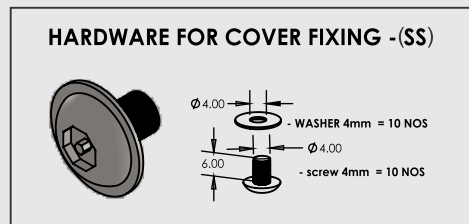
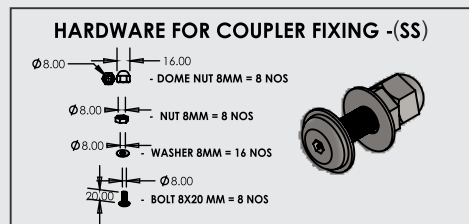


**STRAIGHT LENGTH  
100 MM HEIGHT-DESOF**

		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDXX102	2500	100-600		DESDXX102PC	DESDXX102HD	DESDXX102SS



**STRAIGHT LENGTH  
150 MM HEIGHT-DESOF**

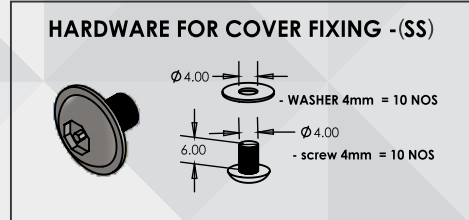
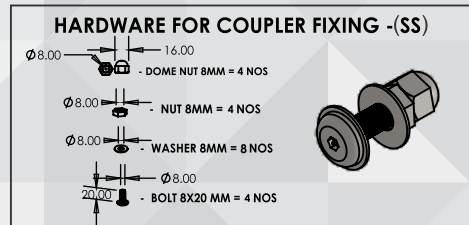


		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDXX152	2500	150-600		DESDXX152PC	DESDXX152HD	DESDXX152SS

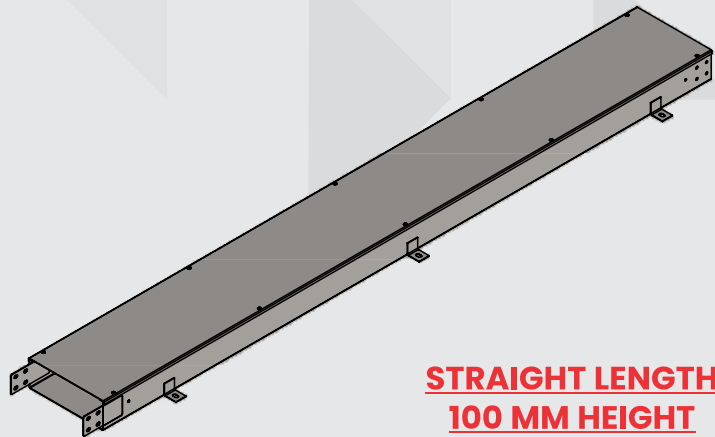
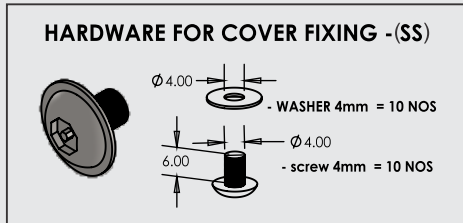
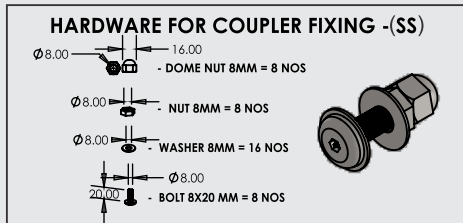
# Secure Optical Fiber Trunking (DESOF)



**STRAIGHT LENGTH  
50 MM HEIGHT  
FOR SHAFT- DESOF**

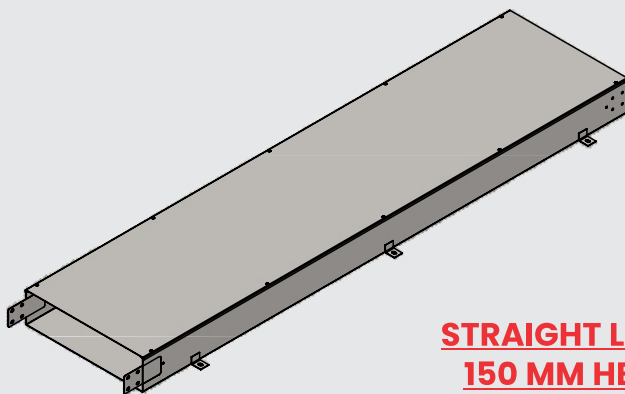


		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDSXX052	2500	50-600		DESDSXX052PC	DESDSXX052HD	DESDSXX052SS

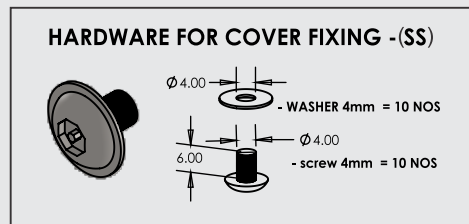
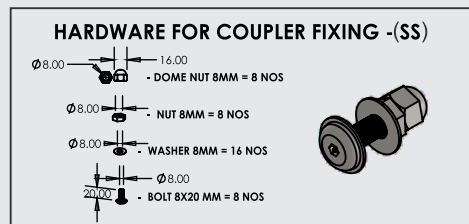


**STRAIGHT LENGTH  
100 MM HEIGHT  
FOR SHAFT- DESOF**

		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDSXX102	2500	100-600		DESDSXX102PC	DESDSXX102HD	DESDSXX102SS



**STRAIGHT LENGTH  
150 MM HEIGHT  
FOR SHAFT- DESOF**

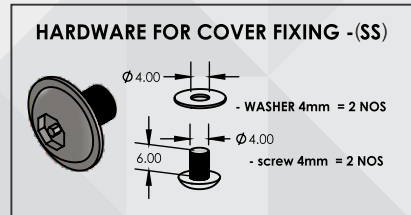
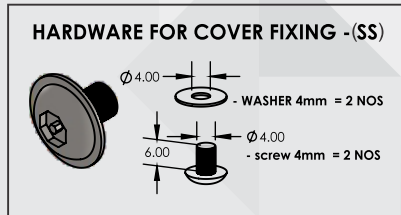
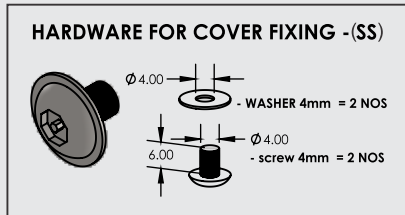
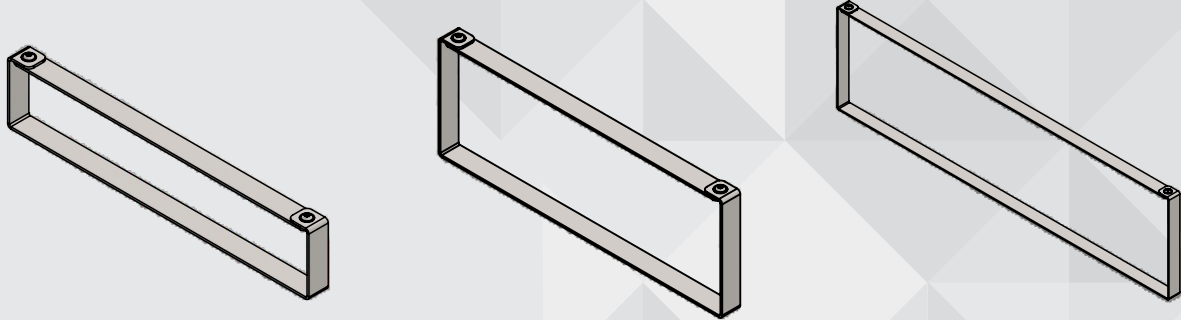


		L (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDSXX152	2500	150-600		DESDSXX152PC	DESDSXX152HD	DESDSXX152SS



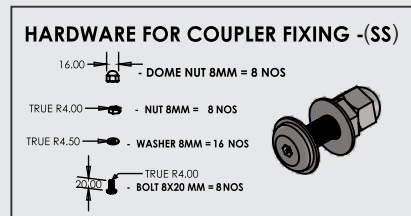
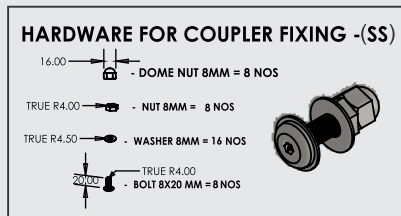
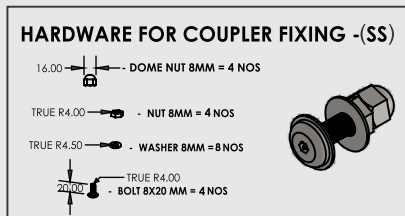
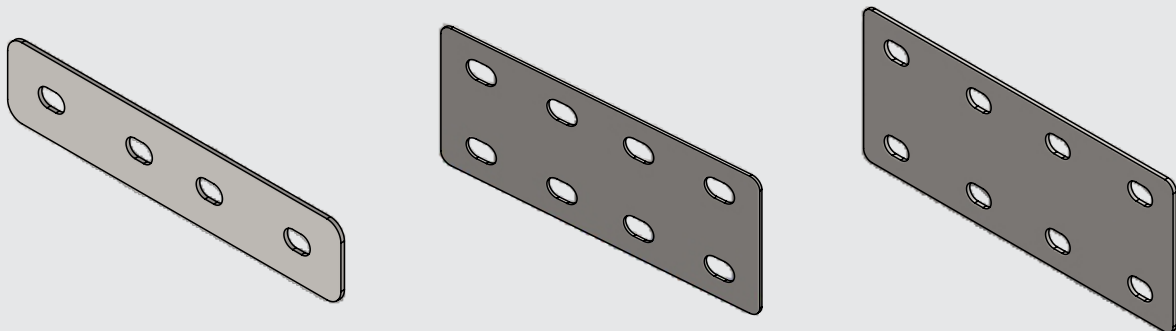
# Secure Optical Fiber Trunking (DESOF)

## JOINT FIXING BRACKET FOR DESOF



		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDFBXX052PC	50	50-600		DESDFBXX052PC	DESDFBXX052HD	DESDFBXX052SS
2	SDFBXX102PC	100	100-600		DESDFBXX102PC	DESDFBXX102HD	DESDFBXX102SS
3	SDFBXX152PC	150		DESDFBXX152PC	DESDFBXX152HD	DESDFBXX152SS	

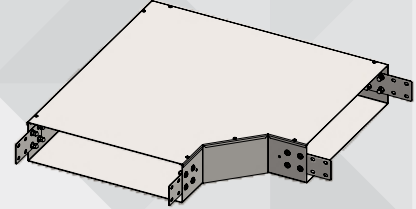
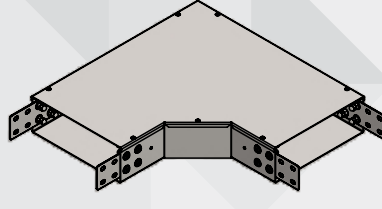
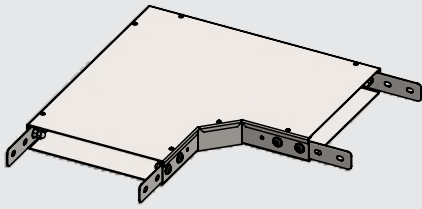
## COUPLER PLATE FOR DESOF



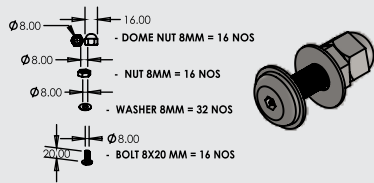
		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDCP052	50	50-600		DESDCP052PC	DESDCP052HD	DESDCP052SS
2	SDCP102	100	100-600		DESDCP102PC	DESDCP102HD	DESDCP102SS
3	SDCP152	150	150-600		DESDCP152PC	DESDCP152HD	DESDCP152SS

# Secure Optical Fiber Trunking (DESOF)

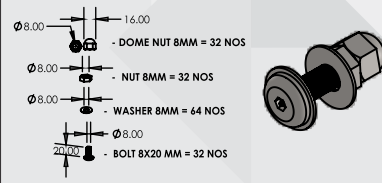
## HORIZONTAL 90 DEGREE 2 WAY - DESOFT



### HARDWARE FOR COUPLER FIXING -(SS)



### HARDWARE FOR COUPLER FIXING -(SS)

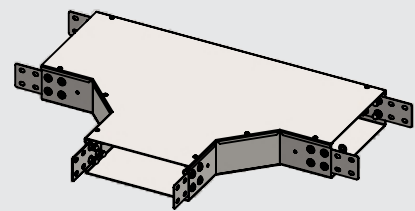
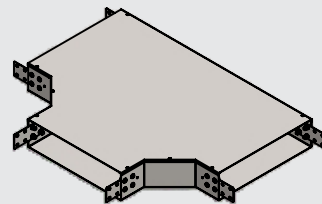
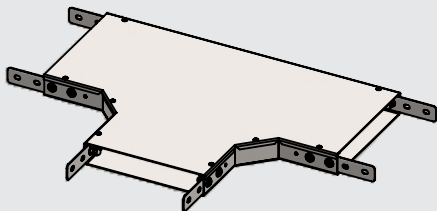


### HARDWARE FOR COUPLER FIXING -(SS)

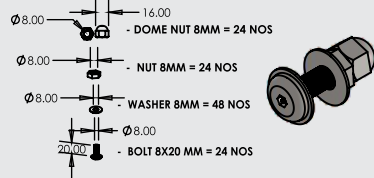


		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SD2WXX052	50	50-600		DESD2WXX052PC	DESD2WXX052HD	DESD2WXX052SS
2	SD2WXX102	100	100-600		DESD2WXX102PC	DESD2WXX102HD	DESD2WXX102SS
3	SD2WXX152	150	150-600		DESD2WXX152PC	DESD2WXX152HD	DESD2WXX152SS

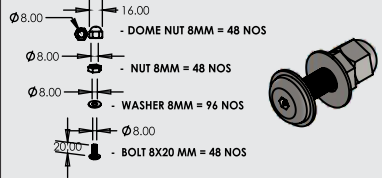
## HORIZONTAL 3 WAY - DESOFT



### HARDWARE FOR COUPLER FIXING -(SS)



### HARDWARE FOR COUPLER FIXING -(SS)



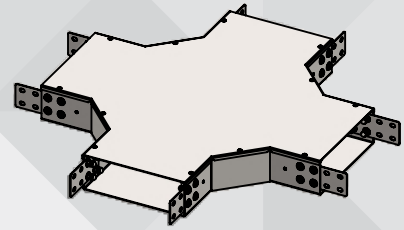
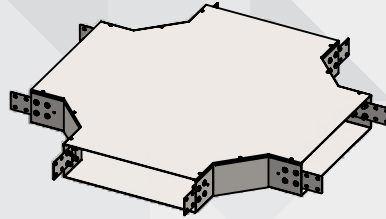
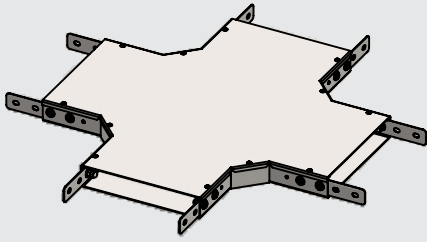
### HARDWARE FOR COUPLER FIXING -(SS)



		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SD3WXX052	50	50-600		DESD3WXX052PC	DESD3WXX052HD	DESD3WXX052SS
2	SD3WXX102	100	100-600		DESD3WXX102PC	DESD3WXX102HD	DESD3WXX102SS
3	SD3WXX152	150	150-600		DESD3WXX152PC	DESD3WXX152HD	DESD3WXX152SS

# Secure Optical Fiber Trunking (DESOF)

## HORIZONTAL 4 WAY - DESOF



**HARDWARE FOR COUPLER FIXING -(SS)**

- 16.00 - DOME NUT 8MM = 32 NOS
- Ø 8.00 - NUT 8MM = 32 NOS
- Ø 8.00 - WASHER 8MM = 64 NOS
- Ø 8.00 - BOLT 8X20 MM = 32 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

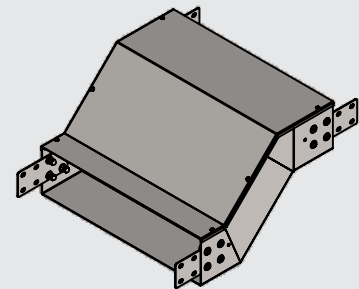
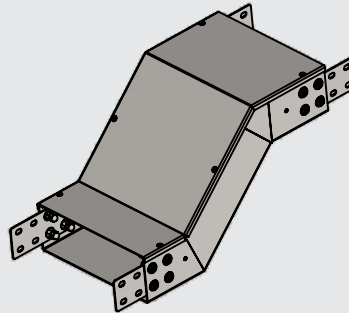
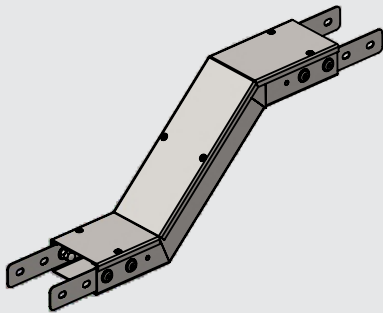
- Ø 8.00 - DOME NUT 8MM = 64 NOS
- Ø 8.00 - NUT 8MM = 64 NOS
- Ø 8.00 - WASHER 8MM = 128 NOS
- Ø 8.00 - BOLT 8X20 MM = 64 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

- Ø 8.00 - DOME NUT 8MM = 64 NOS
- Ø 8.00 - NUT 8MM = 64 NOS
- Ø 8.00 - WASHER 8MM = 128 NOS
- Ø 8.00 - BOLT 8X20 MM = 64 NOS

		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SD4WXX052	50	50-600		DESD4WXX052PC	DESD4WXX052HD	DESD4WXX052SS
2	SD4WXX102	100	100-600		DESD4WXX102PC	DESD4WXX102HD	DESD4WXX102SS
3	SD4WXX152	150	150-600		DESD4WXX152PC	DESD4WXX152HD	DESD4WXX152SS

## VERTICAL 45 DEGREE 2 WAY - DESOF



**HARDWARE FOR COUPLER FIXING -(SS)**

- Ø 8.00 - DOME NUT 8MM = 16 NOS
- Ø 8.00 - NUT 8MM = 16 NOS
- Ø 8.00 - WASHER 8MM = 32 NOS
- Ø 8.00 - BOLT 8X20 MM = 16 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

- Ø 8.00 - DOME NUT 8MM = 32 NOS
- Ø 8.00 - NUT 8MM = 32 NOS
- Ø 8.00 - WASHER 8MM = 64 NOS
- Ø 8.00 - BOLT 8X20 MM = 32 NOS

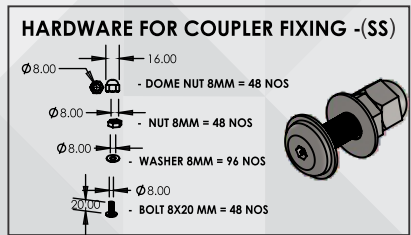
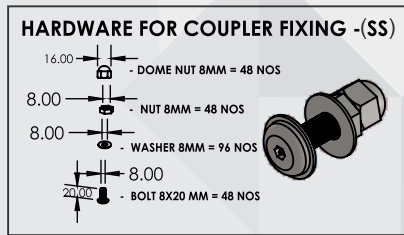
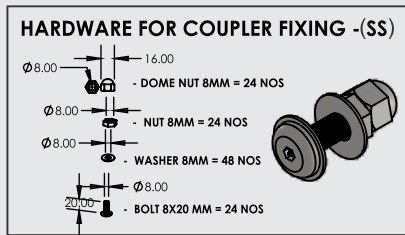
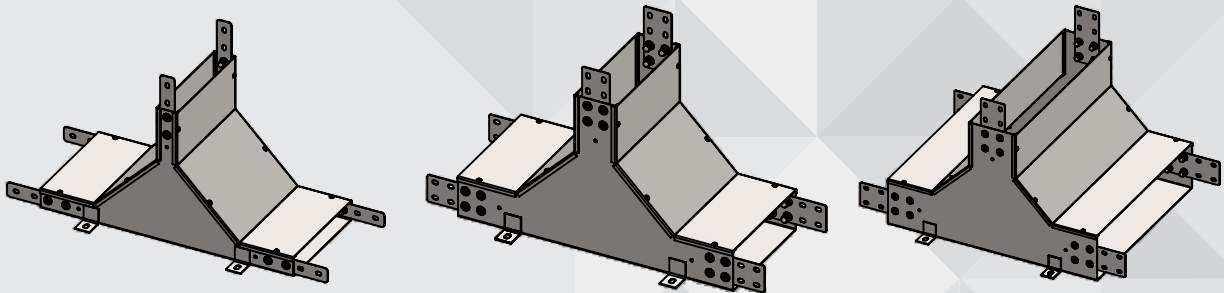
**HARDWARE FOR COUPLER FIXING -(SS)**

- Ø 8.00 - DOME NUT 8MM = 32 NOS
- Ø 8.00 - NUT 8MM = 32 NOS
- Ø 8.00 - WASHER 8MM = 64 NOS
- Ø 8.00 - BOLT 8X20 MM = 32 NOS

		H (mm)	W(mm)XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SD45VRXX052	50	50-600		DESD45VRXX052PC	DESD45VRXX052HD	DESD45VRXX052SS
2	SD45VRXX102	100	100-600		DESD45VRXX102PC	DESD45VRXX102HD	DESD45VRXX102SS
3	SD45VRXX152	150	150-600		DESD45VRXX152PC	DESD45VRXX152HD	DESD45VRXX152SS

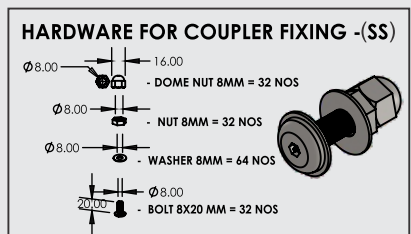
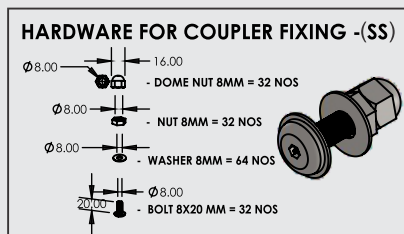
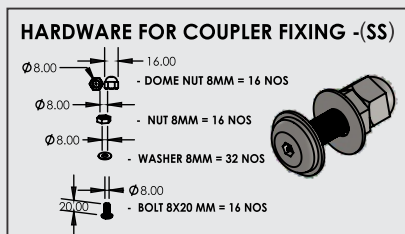
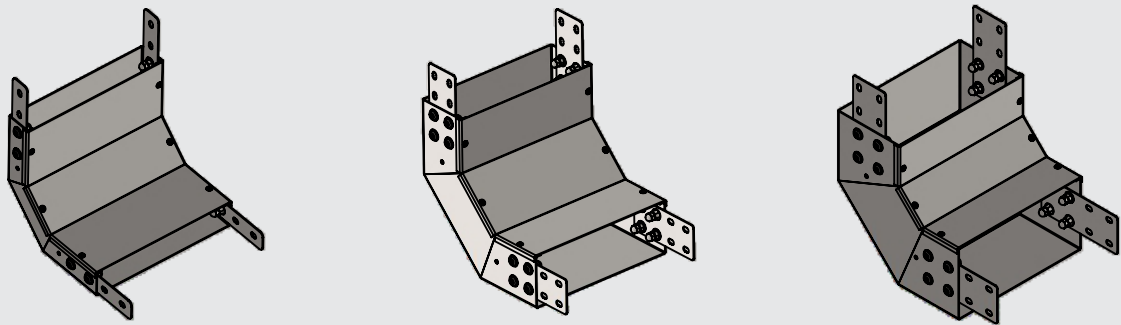
# Secure Optical Fiber Trunking (DESOF)

## VERTICAL 3 WAY FOR SHAFT - DESOFT



		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDV3WXX052	50	50-600		DESDV3WXX052PC	DESDV3WXX052HD	DESDV3WXX052SS
2	SDV3WXX102	100	100-600		DESDV3WXX102PC	DESDV3WXX102HD	DESDV3WXX102SS
3	SDV3WXX152	150	150-600		DESDV3WXX152PC	DESDV3WXX152HD	DESDV3WXX152SS

## INSIDE RISER FOR VERTICAL SHAFT - DESOFT

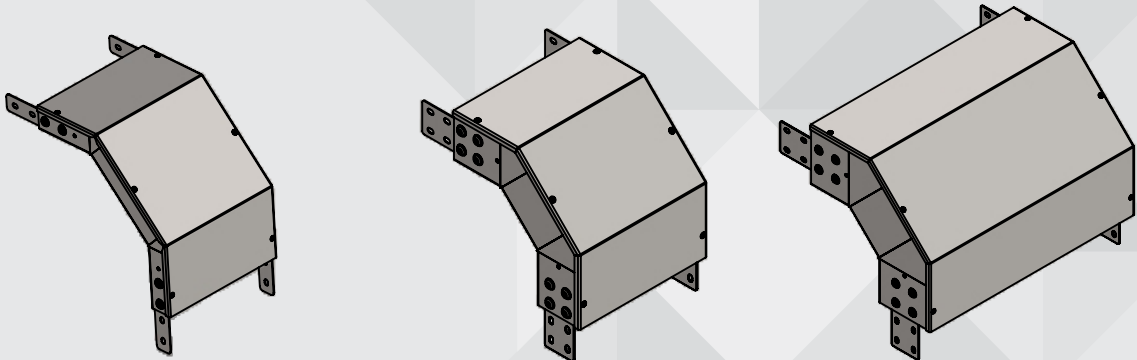


		H (mm)	W(mm)XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDIRXX052	50	50-600		DESDIRXX052PC	DESDIRXX052HD	DESDIRXX052SS
2	SDIRXX102	100	100-600		DESDIRXX102PC	DESDIRXX102HD	DESDIRXX102SS
3	SDIRXX152	150	150-600		DESDIRXX152PC	DESDIRXX152HD	DESDIRXX152SS



# Secure Optical Fiber Trunking (DESOF)

## OUTSIDE RISER FOR VERTICAL SHAFT – DESOFT



**HARDWARE FOR COUPLER FIXING -(SS)**

$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 16 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 16 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 32 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 16 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

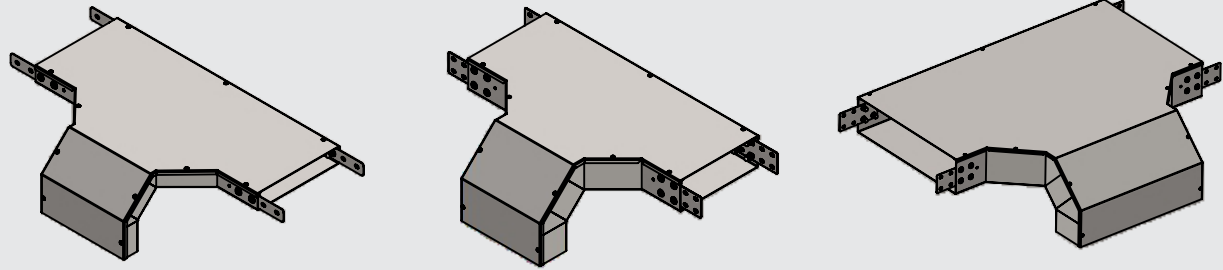
$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 64 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 32 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 64 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 32 NOS

		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDORXX052	50	50-600		DESDORXX052PC	DESDORXX052HD	DESDORXX052SS
2	SDORXX102	100	100-600		DESDORXX102PC	DESDORXX102HD	DESDORXX102SS
3	SDORXX152	150	150-600		DESDORXX152PC	DESDORXX152HD	DESDORXX152SS

## CABLE DROPOUT – DESOFT



**HARDWARE FOR COUPLER FIXING -(SS)**

$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 16 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 16 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 32 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 16 NOS

**HARDWARE FOR COUPLER FIXING -(SS)**

$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 64 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 32 NOS

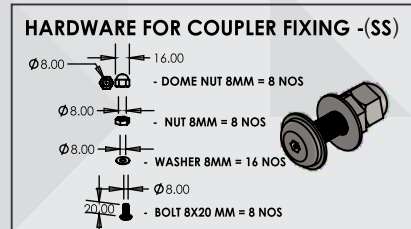
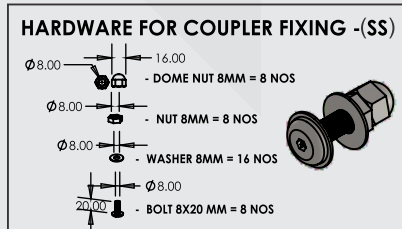
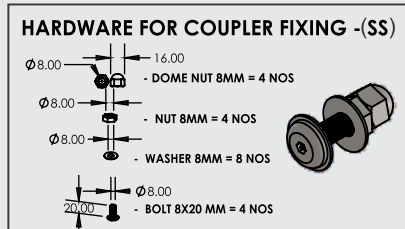
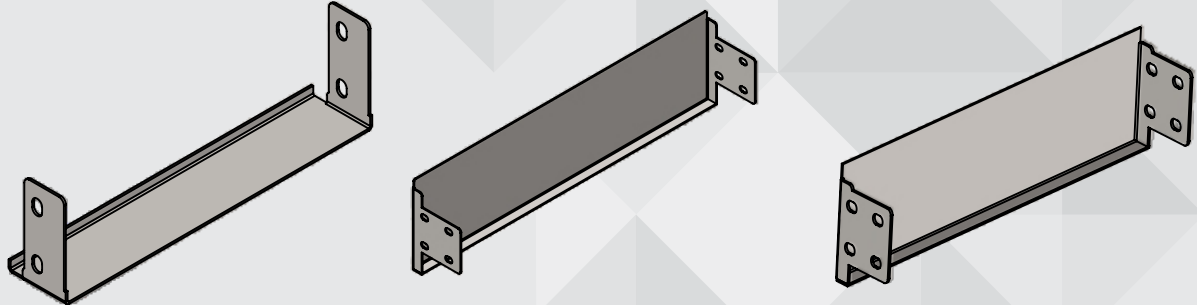
**HARDWARE FOR COUPLER FIXING -(SS)**

$\phi 8.00$  → 16.00  
 - DOME NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - NUT 8MM = 32 NOS  
 $\phi 8.00$  →  
 - WASHER 8MM = 64 NOS  
 $\phi 8.00$   
 - BOLT 8X20 MM = 32 NOS

		H (mm)	W(mm)XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDCDXX052	50	50-600		DESDCDXX052PC	DESDCDXX052HD	DESDCDXX052SS
2	SDCDXX102	100	100-600		DESDCDXX102PC	DESDCDXX102HD	DESDCDXX102SS
3	SDCDXX152	150	150-600		DESDCDXX152PC	DESDCDXX152HD	DESDCDXX152SS

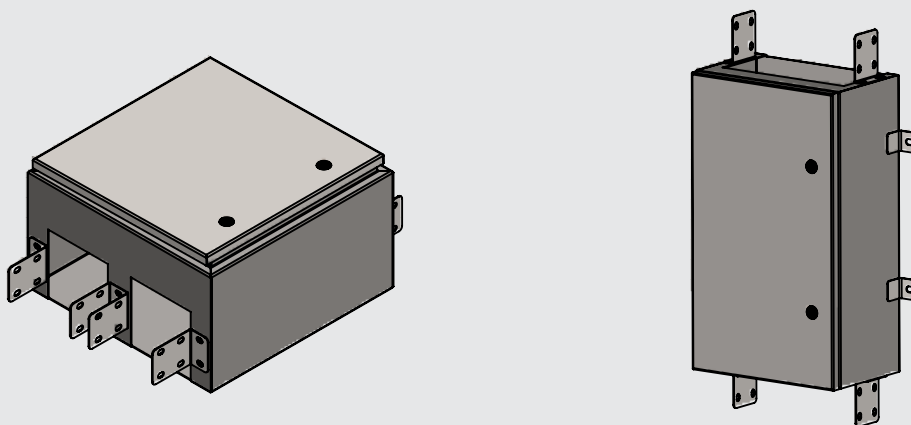
# Secure Optical Fiber Trunking (DESOF)

## END CAP - DESOF



		H (mm)	W (mm) XX	Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDECXX052	50	50-600		DESDECXX052PC	DESDECXX052HD	DESDECXX052SS
2	SDECXX102	100	100-600		DESDECXX102PC	DESDECXX102HD	DESDECXX102SS
3	SDECXX152	150	150-600		DESDECXX152PC	DESDECXX152HD	DESDECXX152SS

## PULL UP BOX FOR DESOF

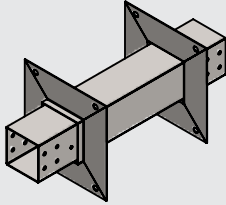


		Pregalvanised	Powder coated	Hot dipped Galvanised	SS 304
1	SDJBXXYYZZ2		DESDBJBXXYYZZ2PC	DESDBJBXXYYZZ2HD	DESDBJBXXYYZZ2SS

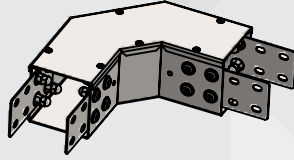
\*XX/YY/ZZ-As per Drawing

# Secure Optical Fiber Trunking (DESOF)

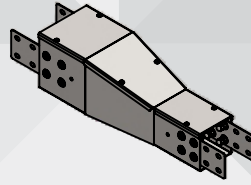
## SPECIAL ACCESSORIES



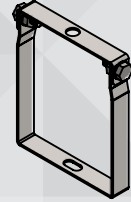
**Wall Sleeve Unit**



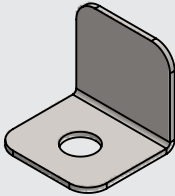
**90 Degree Radius Bend**



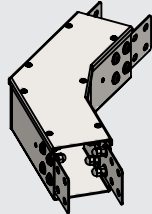
**Custom Reducer**



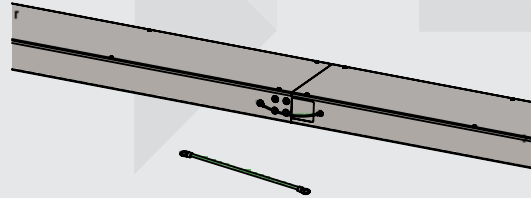
**Mounting Bracket**



**Trunking Stopper**



**45 Degree Horizontal Bend**



**HARDWARE FOR EARTHING FIXING**

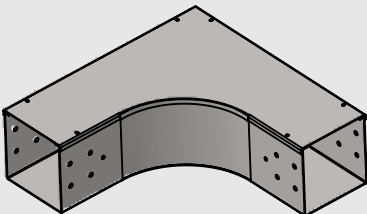
- $\phi 6.00$  - NUT 6MM = 2 NOS
- $\phi 6.00$  - WASHER 6MM = 4 NOS
- $\phi 6.00$  - BOLT 6X20 MM = 2 NOS

**Earthing Connectors**

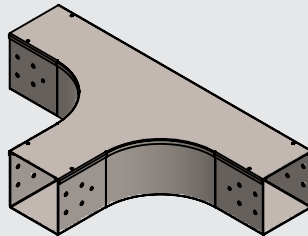
**DK DAKONS ENGINEERING PVT. LTD.**

ITEM NO : DESDSL9045  
TAMPER EVIDENT DESTRUCTIBLE SECURITY LABEL

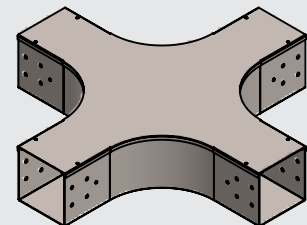
**Tamper Evident Destructible Security Label**



**90 Degree 2 way with Radius**



**3 way With Radius**



**4 way With Radius**







## CABLE MANAGEMENT SYSTEM

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**SAFE • DURABLE • CUSTOMIZED**



For more information kindly call or write to us

**Dakons Engineering Pvt. Ltd.**

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