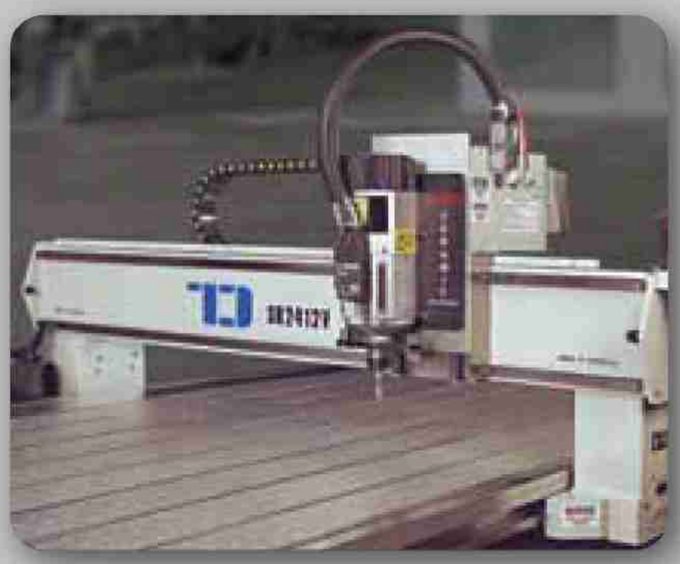
TDI

Pre-Insulated
Aluminium Duct

PT. MECHTRON MASTEVI INDONESIA
Website: www.kontraktorHVAC.com

Email : sales@kontraktorHVAC.com
Telepon : 0813 6577 8899

CUTTING MACHINE







This machine is a specially designed solution to help revolutionize the production and manufacture of pre-insulated alumunium duct construction. The machine powered by cam-duct & tool path software that bring a complete solution for the fabrication of TDI duct, using duct maker series of routers and specifically designed automatic tool changer, "V" cutting and cutting the panel shapes can be done in one process, giving massive saving in all aspects of manufacture.

SUPPORTING TOOLS





1. 45° Left or Right and 90° Straight Cutter Knife





2. V Cutter Knife





3. Manual Bending Tools





4. Aluminium Ruler (1200 mm & 4000 mm)





5. Table complete with carpet for cover (4 x 1.2 m)





6. Electric Bending Machine

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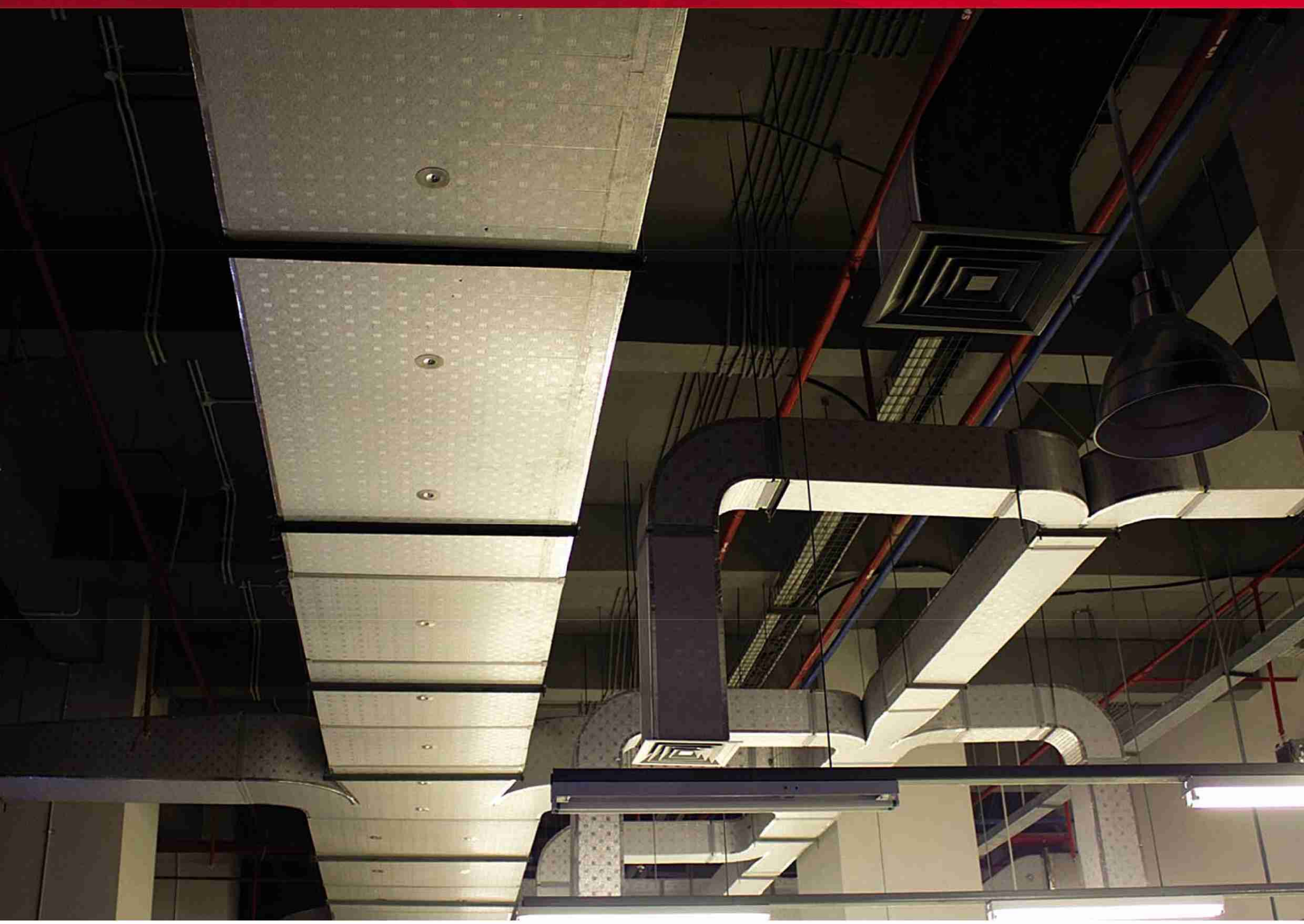
INTRODUCTION

TDI Pre-Insulated Aluminium Duct is specialized in the air distribution field and the answer to economical, technical and constructive question.

TDI Pre-Insulated Aluminium Duct is a sandwich panel composed of a layer base from good fire retardant rigid polyisocyanurate (PIR) foam covering both side with aluminium foil, the aluminium guarantees sturdiness and withstand corrosion in long term use.

TDI pre-insulated duct has been developed and spread around the world, its application has been gradually extended to all type of air distribution system such as industrial, commercial and civil.

TDI Pre-Insulated Aluminium Duct is considered A GREEN PRODUCT MATERIAL.



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PRODUCT ADVANTAGES

- Better thermal insulation
- Fire Safety Class 0
- Air Quality and Hygiene
- Easy to construct and modify
- Light weight
- Energy saving and efficient
- Low labour cost







PRODUCT SPECIFICATION

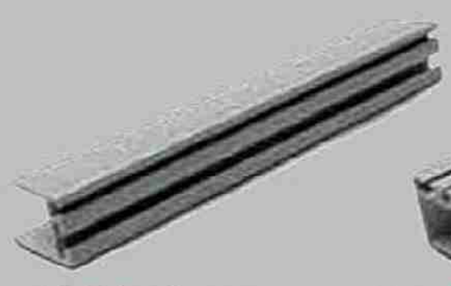
Thickness of Panel	: 20 mm
Density of PIR	: 50 +/- 2 kg/m³
Compressive Strength	: 200 N/mm2
Thermal Conductivity	: 0.019 W/m.C
Flame Retardant	: Class 0
Friction Coefficient	: 0.0135
Weight	: 1.46 kg/m²
Working Temperature	: -60° C to 80° C
Humidity	: 0-100%
Pressure in Duct max.	: 2000 Pa
Air Flow max. recomended	: 12 m/s

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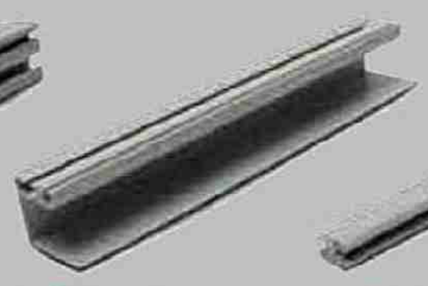
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GREEN BUILDING COUNCIL INDONESIA

PRODUCT ACCESSORIES



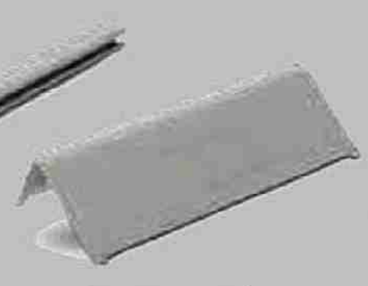
Invisible Flange
IFO-0120



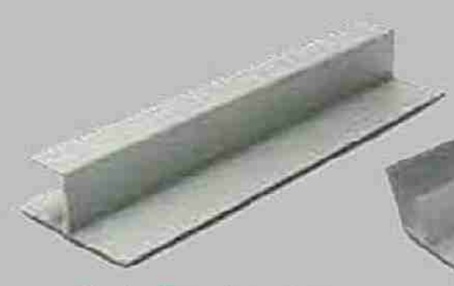
Tee Connector Flange
TC-0130



Bayonet
BY-01



Cover Angle
CA-0120



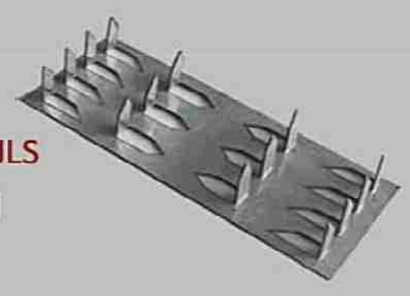
Chair Section Bar Aluminium
SB-C20/3



"F" Section Bar Aluminium
SB-F20/3



Hanging Bracket BJLS
HB-001



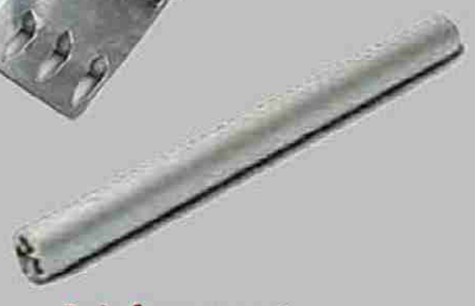
Tiger Claw BJLS
TC-001



Corner Joint
1 Corner, 2 Cliplock
CJ-001



Shaped Disc Aluminium
SD-01



Reinforcement
RF-01/4



Ball Joint Damper
BJ-001



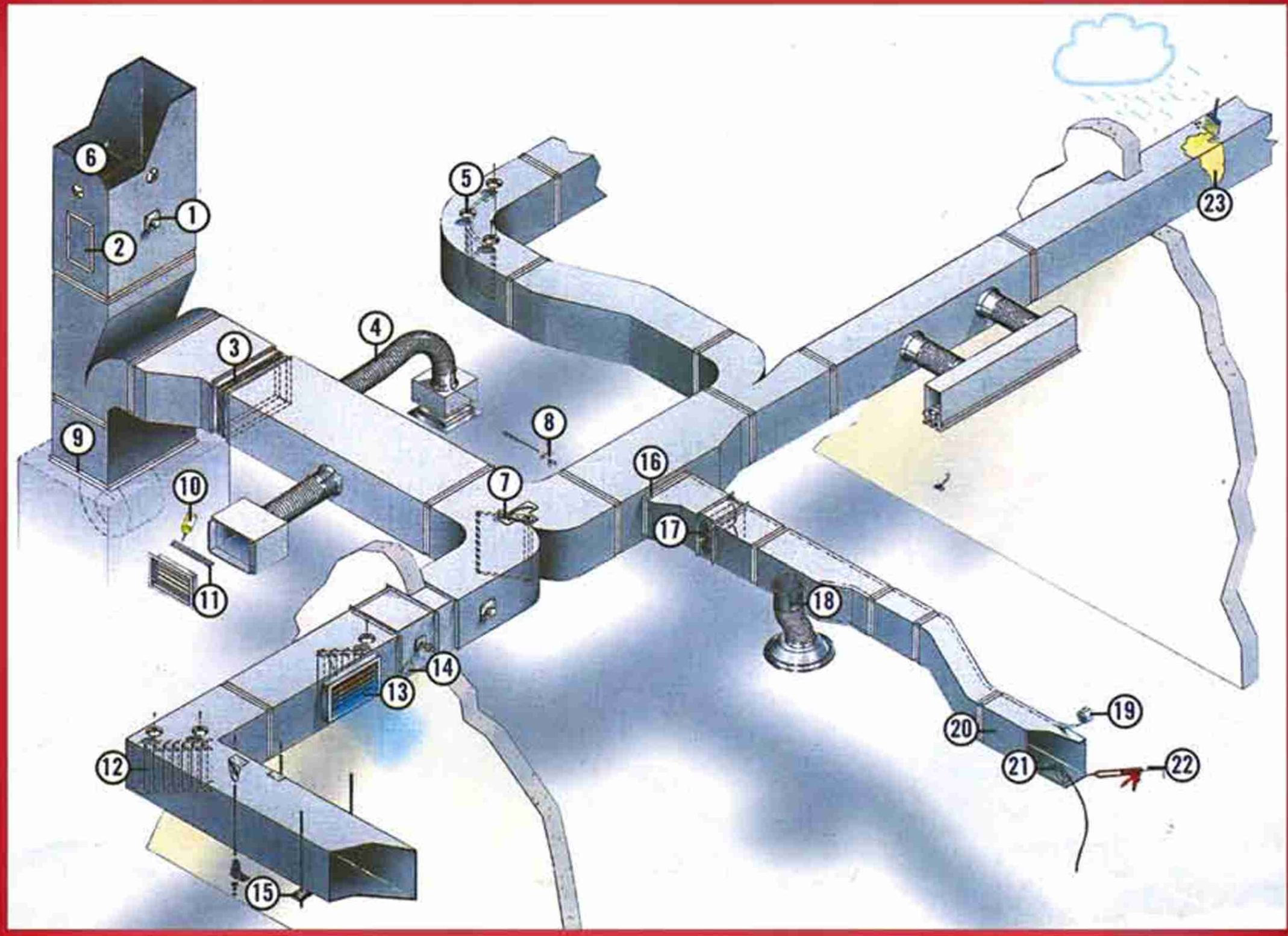
Alumunium Tape
AT-001



Zinc Coated (90°)
ZC-001

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1. Check points
2. Access doors
3. Anti vibration dumping point
4. Flexible ducts
5. Splitters fastening
6. Reinforcements
7. Damper quadrant set
8. Flangers
9. Unit connection
10. Rapid glue section bar fastening
11. Section bar for grilles installation
12. Turning vanes
13. Grilles installation on duct's side
14. Section bar for dampers installation
15. Hanging devices
16. Branch connection flange system
17. Modular dumpers
18. Tap-in collars
19. Tapes
20. Panels
21. Glues
22. Sealants
23. Water proofing treatment

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TDI, a better value:

- high thermal insulation : 0.021 W/m.C
- air quality and hygiene, aluminium cover both side of the panel ensure high level of hygiene, prevent bacteria to grow, eliminates particle released and anti corrosion.
- air seal, using special flange, sealant and glue.
- fire safety B1, it will burn but not spread and the smoke low toxic.
- light, reduce weight compared to sheet metal, reduce load to the structure, reduce hanger construction, minimize risk of injuries, easy and fast during installation.
- easy to construct & possibility of modify onsite, reduce transportation cost.
- energy saving and efficiency, maximize air conditioning unit performance making it more efficient.



PRODUCT SPECIFICATION:

Thickness of panel	: 20 mm
Thickness of aluminium	: 85 micron
Density of Polyurethane	: 52 +/-2 kg/m3
Compressive strength	: 200 N/mm2
Thermal Conductivity	: 0.021 W/m.C
Flame retardant	: B 1
Friction coefficient	: 0.0135
Weight	: 1.46 kg/m2
Working Temperature	: -60 C to +80 C
Humidity	: 0 - 100 %
Pressure in duct max	: 2000 Pa
Air flow max recomended	: 12 m/s



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PANEL & AKSESORIS

Kode	Keterangan	Dimensi	Satuan	Harga (Rp)
TD-48/20	TD duct panel density +/-52kg/m3	4 x 1.2m	Lembar	935,000
TDS-48/20	TD smooth panel 150 micron (1 side)	4 x 1.2m	Lembar	1,050,000
TDC-48/20	TD super panel with alumunium composite	4 x 1.2m	Lembar	1,525,000
TDI-48/20	TD duct panel density +/-50kg/m3 (PIR)	4 x 1.2m	Lembar	825,000
IFQ-0120	Invisible Flange (PVC)	4m	batang	87,000
TC-0130	Tee Connector Flange (PVC)	4m	batang	103,000
BY-01	Bayonet (PVC)	4m	batang	49,000
CA-0120	Covering Angle (PVC)	1	buah	5,100
GL-01	TD Glue (11 kg)	1	kaleng	850,000
SL-01	Sealant neutral (white colour)	1	botol	67,000
SB-C20/3	Chair Section Bar Alumunium	4m	batang	181,000
SB-F20/3	“F” section Bar Alumunium	4m	batang	178,000
SD-01	Shaped Disk Alumunium	1	buah	10,500
SD-02	Shaped Disk (PVC)	1	buah	7,000
RF-01/4	Reinforcement Bar Alumunium	4m	batang	136,000
BJ-001	Ball Joint Damper (alumunium)	1	buah	33,000
BJ-002	Ball Joint Damper (plastik)	1	buah	12,000
AT-001	Alumunium Tape (50m)	1	rol	86,000
ZC-001	Zinc Coated (900)	1	buah	6,300
HB-001	Hanging Braket (BJLS)	1	buah	36,850
CJ-001	Corner Joint (1 Corner)	1	buah	6,500
CJ-002	Corner Joint (2 Clip Lock)	1	set	18,000
TC-001	Tiger Claw (BJLS)	1	buah	9,900

*. Harga belum termasuk PPN

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