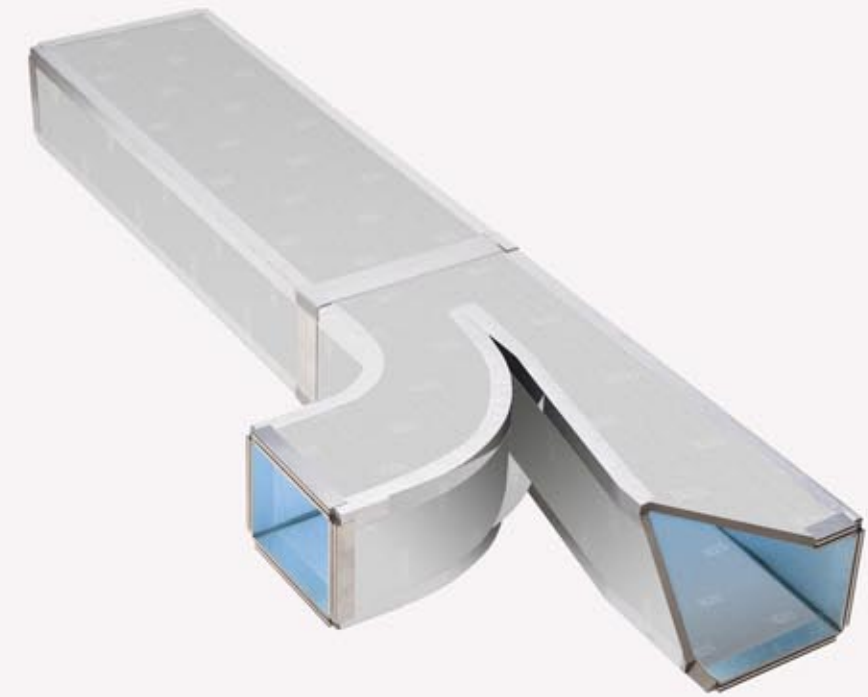


www.boss-duct.com



BOSS



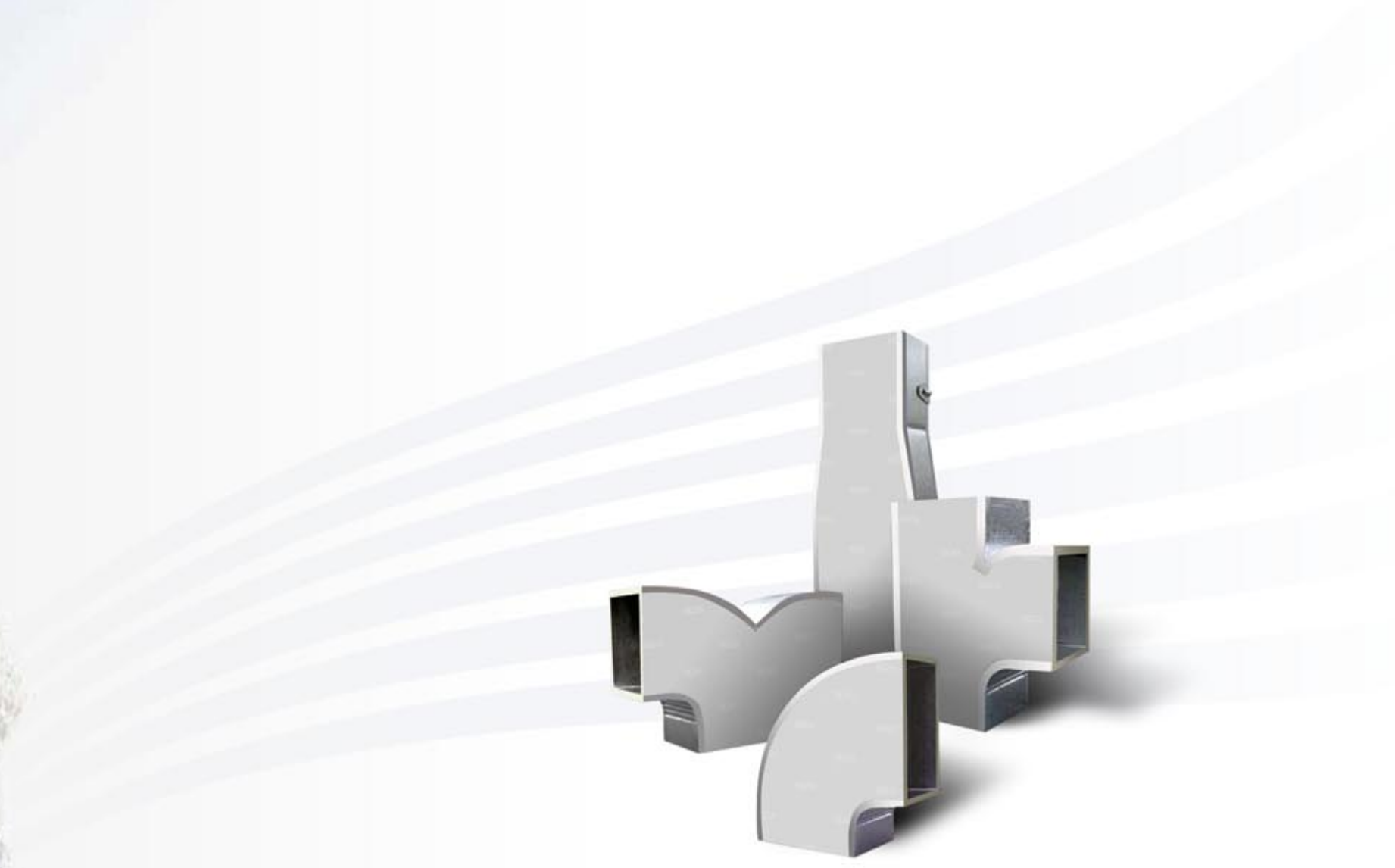
Ductal System

Pre-insulated Aluminium Duct



BOSS

Air is the essence of life



Ductal System

Pre-insulated Aluminium Duct





With our highly automated production line, we can produce consistently high quality BOSS air duct panels that meets with the customer's requirements.

Factory

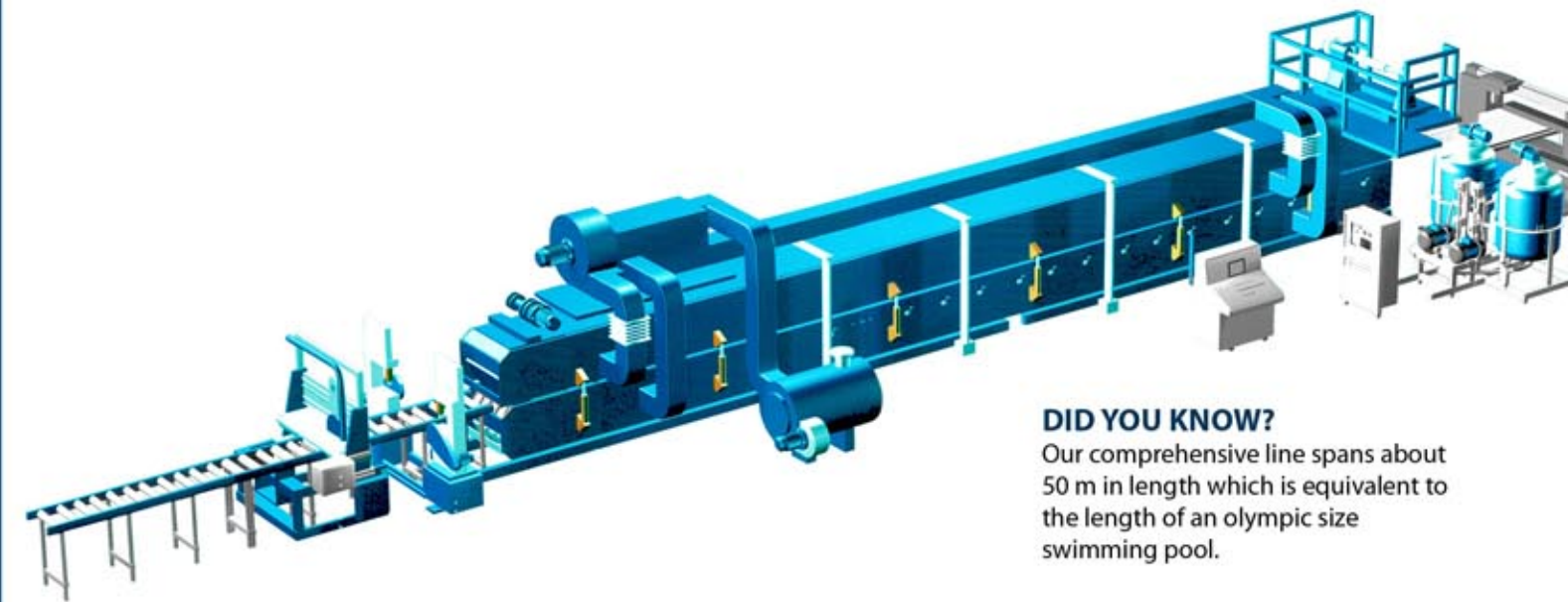
With over 1,000 employees, BOSS air-duct panels are manufactured locally in our ISO 9001 certified plant that spans 68,000 m² with 35 building blocks.

ISO 9001:2008
WORLD'S LEADING
MANAGEMENT
SYSTEM STANDARD

Globally adopted in virtually all industries from manufacturers and service companies, to companies both large and small, multi-site multi-national organizations and single location businesses, ISO 9001 has become the most widely recognized Management System Standard.



BOSS is a proud member of Lelco Group



DID YOU KNOW?

Our comprehensive line spans about 50 m in length which is equivalent to the length of an olympic size swimming pool.



This is to certify that:
PT. Lelco Trindo Nusantara

Jl. Industri IV Blok AC No. 8 Jatake Tangerang BANTEN INDONESIA

operates a
QUALITY MANAGEMENT SYSTEM
which complies with the requirements of
ISO 9001:2008

for the following scope

The registration covers the Quality Management System for the design and manufacture of lighting fixtures.

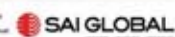
Certificate No: QEC22078

Issued: 1 February 2011
Expires: 10 January 2014

Originally Certified: 11 January 2005
Current Certification: 1 February 2011

Alex Eranowich
Alex Eranowich
General Manager - Certification Services

Duncan Lilly
Duncan Lilly
Global Head - Assurance Services



Advantages of BΩSS Duct Panels



THERMAL CONDUCTIVITY

Special closed-cell insulation guarantees low thermal conductivity and reduces the risk of condensation.

FRICITION LOSS

Low levels of linear friction losses due to low number of flanges and limited surface roughness.



ENERGY SAVING

Perfect thermal insulation and optimum airtight seal allow for maximum use of air handling unit capacity, increasing efficiency and reducing operating costs.



AIRTIGHT SEAL

BΩSS ducts are eight times more airtight than traditional ducts.



SAFETY

BΩSS ducts do not melt and drop and smokes from fire hazard have a reduced opacity and toxicity enhancing safety.



HYGIENE & AIR QUALITY

The use of aluminium for the internal surfaces of ducts ensures hygiene and cleanliness. The problem of ageing of the insulation and consequent release of particles is non-existent.



LIGHT WEIGHT

The very light weight allows a reduction of weight on supporting points, structures, labor costs and materials for the installation.



PRODUCTION FLEXIBILITY

Manufacturing BΩSS ducts is easy to do in a work shop or directly at job site reducing transportation costs.



DURABILITY

The outer aluminium coating coupled with the insulating material provides sturdiness, rigidity and good resistance to corrosion, erosion and deformation even in special applications.



BOSS DUCT PANEL

BΩSS Pre Insulated Aluminium duct is a sandwich panel composed of a layer based from good fire retardant rigid polyisocyanurate (PIR) foam covering both sides with aluminium foil. The aluminium is especially coated with anti bacterial coating and guarantees sturdiness and withstands corrosion.

Size of panel	4000 x 1200 mm
Thickness of Panel	20 mm
Thickness of external / internal aluminium	80/80 µm
Finish of the Aluminium	Embossed/ smooth

SPECIFICATIONS

Thickness of Panel	: 20 mm
Density of PIR	: 52 +/- 2Kg/m ³
Compressive Strength	: 200N/mm ²
Thermal Conductivity	: 0.0117 W/m °C
Flame Retardant	: Class O
Weight	: 1.47 Kg/m ²
Temperature Range	: -60°C - +80°C
Humidity	: 0 - 100%
Pressure in Duct Max	: 2000 Pa
Air Flow Max	: 12 m/s



ACCESSORIES



"F" Type



"C" Type



Reinforcement Aluminium Bar



Aluminium Disk



Joint Damper



Zinc-Coated Steel Angle Bracket



Flange PVC Joint



Tee Connector Flange PVC Joint



PVC Angle



"H" PVC Joint

GLUE & SEALANT

Special Glue formulated to obtain perfect adhesion on BQSS pre-insulated Aluminium Duct panel foam.

Special Sealant (Non-corrosive) to prevent air leakage and preserve air quality in the duct.



CUTTER



Tools for Duct Installation



45° LEFT OR RIGHT AND 90° STRAIGHT CUTTER KNIFE
Aluminium die-casted cutter knife with specially designed ergonomic handle that allows precise 45° and 90°. Different handle colors are available for different angle cuts.



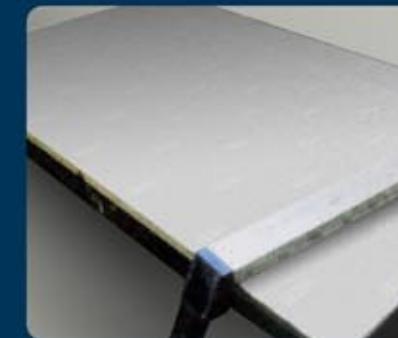
V CUTTER KNIFE
Easy grip V cutter enables precise V cut and manoeuvrability. Made from die-casted aluminum, and designed with slotted holes, replacing the blade is simple and quick. The correct blade length also permits V cut in the panels without marking the inferior aluminium foil.



MANUAL BENDING TOOLS
Simple to use and portable, the manual bending tools can be easily used to make radius elbow and fittings in the work site.



ALUMINIUM RULER (1200mm & 4000mm)
Designed with a built-in locking mechanism, the aluminium ruler serves as both a guide for the cutter knife and to secure the panel in place on the work table.



WORK TABLE (4 X 1.2 m)
Specially designed tables for cutting and constructing BQSS duct panels, the table is overlaid with carpet to ensure ease of cutting and durability of the blade.

General View

Accessories application and duct installation

REINFORCEMENT
• Shaped disk
• Reinforcement
• Self threading screws

INVISIBLE FLANGE JOINT & TEE CONNECTOR FLANGE
• Invisible flange joint
• "H" bayonet
• Steel angle bracket
• Covering angle

AHU CONNECTION & DEFLECTOR
• "F" section bar
• Rivets
• Angle bracket for "F" bar

SADDLER
• Hooked & Adhesive bracket
• Saddle section bar

TRADITIONAL FLANGE JOINTS
• Gaskets

