



(Source: njea.org)

ANTIMICROBIAL COATED STEEL

All new galvanised steel by CSC Steel

It is undeniable that good respiratory health is imperative for the body to fight against diseases. Many homeowners and occupants of commercial buildings have become more attentive on the importance of keeping their environment clean and maintaining good indoor air quality.

As defined by Malaysia's Department of Occupational Safety and Health (DOSH), indoor air quality (IAQ) describes the air quality inside a structures or building, associated to the health and comfort of its occupants. Poor IAQ due to pollution from major roads and freeways as well as contaminant build-up in ventilation system have been linked to various building-related illnesses including headaches and fatigue, commonly known as "sick building syndrome". The widespread of contaminants such as microscopic organisms, (bacteria, fungi, etc) and other pollutants can be accelerated by temperature, moisture, and other substance for growth. Further, these contaminants are easily transmitted through fomites (contaminated objects), liquid droplets and airborne, which greatly affects one's health.



CSC Steel Antimicrobial GI

At the helm of its parent company, CSC Steel has built its strength in meeting all challenges – from providing steel products for the construction of intricately designed structures to responding to market

demands according to the latest situation. CSC Steel has recently expanded its range of products to include antimicrobial coated galvanized steel (antimicrobial GI), which is suitable for the production of



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BUILDING ON OUR STRENGTHS, MEETING ALL CHALLENGES



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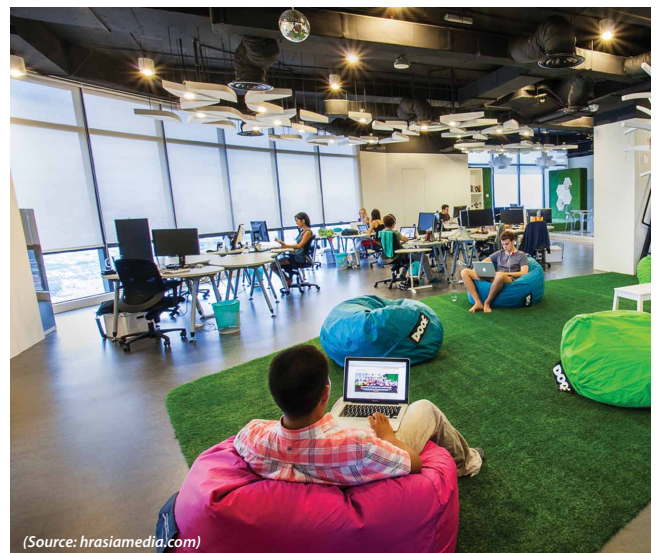




(Source: inudgeyou.com)



(Source: dezeen.com)



(Source: hrsiamedia.com)

heating, ventilation and air-conditioning (HVAC) ducting systems to protect building occupants not only in times of pandemic, but all year round.

When compared to building materials traditionally used to make a ducting system, CSC Steel's latest offering is coated with antimicrobial agent. The antimicrobial GI is certified by Food Industry Research and Development Institute in compliance with JIS Z 2801, and SGS in compliance with ASTM G 21 for the efficiency in suppressing the growth of a list of bacteria and fungus such as *Staphylococcus aureus*, *Salmonella enterica*, *Acinetobacter baumannii*, *Penicillium funiculosum* ATCC 11797, *Trichoderma virens* ATCC9645, etc.

CSC Steel's antimicrobial GI has ultra-smooth appearance that can

reduce pollutants from sticking onto the surface of the ducting system, and highly durable against many components that can affect indoor air quality in a building. The antimicrobial GI can be a good choice for contractors and also the building owners when it comes to material choices for ducting system because it can ease the erection work, simplify routine cleaning of air ducts, and reduce the post maintenance cost due to its capability in heat resistance, corrosion resistance and humidity resistance.

SUITABLE APPLICATIONS

CSC Steel's antimicrobial GI, in the form of HVAC systems, is suitable in the following places:

- Factory buildings producing biomedical

products, semiconductors and electronics, and food products.

- Healthcare facilities.
- Commercial and residential buildings.
- Shopping malls and restaurants.
- Public facilities i.e. airports and MRTs, etc.

Early intervention is key to dealing with air pollution, which has often been characterized as a 'silent and invisible killer', but better still is adopting a 'prevention is better than cure' approach to maintain good IAQ. CSC Steel's antimicrobial GI not only helps clean up current problems, but also prevents future infestation to ensure that the building and its occupants remain healthy all year round.