

## Double A

### PRODUCT SPECIFICATIONS

| Parameters                 | Reference  | Tolerance | Double A PREMIUM |     |     | Double A COLOR PRINT |     |     |
|----------------------------|------------|-----------|------------------|-----|-----|----------------------|-----|-----|
| Grammage, g/m <sup>2</sup> | ISO 536    | ± 3       | 70               | 75  | 80  | 90                   | 100 | 120 |
| Thickness, µm              | ISO 534    | ± 2       | 100              | 102 | 108 | 108                  | 120 | 130 |
| CIE Whiteness              | ISO 11475  | ± 3       | 150              | 150 | 150 | 150                  | 150 | 150 |
| Brightness D65, %          | ISO 2470-2 | ± 3       | 103              | 103 | 103 | 103                  | 103 | 103 |
| Opacity, %                 | ISO 2471   | >         | 91               | 92  | 93  | 94                   | 95  | 96  |
| Bendtsen Roughness, ml/min | ISO 8791-2 | ± 30      | 90               | 90  | 90  | 60                   | 60  | 60  |
| Bending Stiffness MD, mN   | ISO 2493   | >         | 80               | 90  | 110 | 120                  | 140 | 160 |
| Bending Stiffness CD, mN   | ISO 2493   | >         | 40               | 45  | 55  | 60                   | 70  | 80  |

*Product Information is given as an indication of typical values and is not to be considered as a commitment by the manufacturers.*

This product is manufactured by **Double A (1991) PLC**.

#### Certifications:

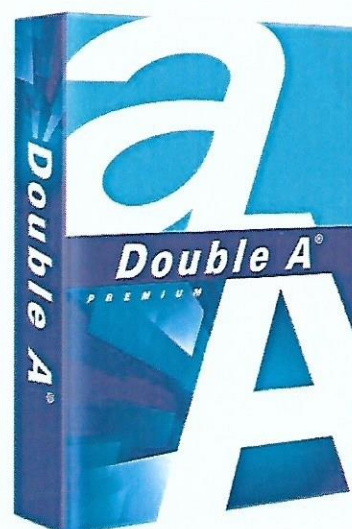
- ISO 9001:2015 (Quality management systems)
- ISO 14001:2015 (Environmental management systems)
- ISO 45001:2018 (Occupational health and safety management systems)
- ISO 9706:1994 (Paper for documents - Requirements for permanence)
- SEDEX (Supplier Ethical Data Exchange)
- FSC (Forest Stewardship Council) Mix 70%, CoC has number SCS-CoC-006703
- EU Timber regulation.

Fly to the future

with premium smooth paper for sharper and vibrant printing outputs.

- Smoothness
- Sharper Prints
- Two-Sided Use

**Double A** paper is a brand of high-quality paper that can be used for various types of printers, such as inkjet, laser, and copier.



ISO 9001

Quality management system standards

ISO 14001

Environmental management system standards

ISO 45001

Management standards, occupational health and safety

FSC CoC

Forest Management System Certificate

PEFC CoC

Program for Endorsement of Forest Certification – Chain of Custody

CSR-DIW  
Continuous

Social and community responsibility

# Double A

## Standard Certifications

CFO

Carbon Footprint for Organization

CFP

Carbon Footprint of Product

FSC FM Group Cer.

Group Sustainable Forest Management Standards

Green Industry

Certified environmentally-friendly business

Singapore  
Green Label

Singapore certified environmental friendly products

EU Timber

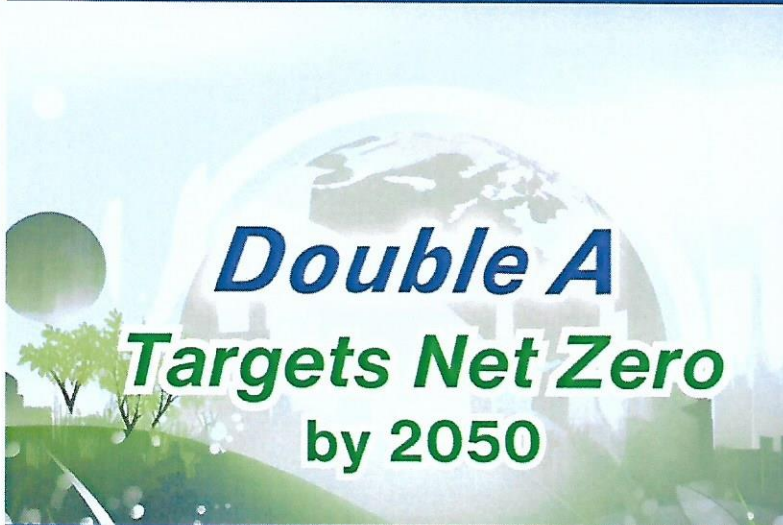
Illegal timber and deforestation-free products

SEDEX

Labor Health and Safety Standards

# Double A Targets Net Zero by 2050,

Moving the Roadmap to Fight Climate Change Forward.



**Double A** is committed to achieving net zero emission across the value chain by 2050. The roadmap to reduce greenhouse gas emissions includes an increased usage of EV trucks for transportation of materials, as well as increased solar and renewable energy sources. By promoting the sustainability and ESG considerations – environment, social, and governance – **Double A's** mission is to enable a greener and better world for all stakeholders by continuously adapting, innovating, and finding new ways in our value chain to utilize sustainable wood-based fiber resources.

**Double A** operates its business by taking into consideration sustainable development across every aspect, applying the ESG framework into its business practice and employing the 3S strategy to carry out **these 3 principles of sustainable development**, for the betterment of the company and the world.

## Sustainable Sourcing

The unique idea of planting paper trees on vacant strips of land between rice fields and providing a sustainable source of raw materials for paper production while fully utilizing agricultural land is the beginning of the **Double A** sustainability story. Only certified wood, or the fast-growing paper tree that was developed specially for making **Double A** paper, is used in the production process. These paper trees planted by farmers greatly help in absorbing carbon dioxide. Further, no natural forests are disturbed to produce **Double A** paper, contributing even more to environmental protection and conservation.

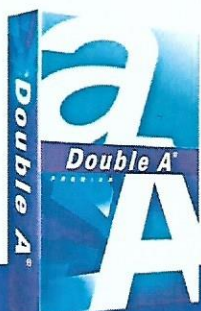
## Self-Sufficient

The leftovers from the production process are turned into clean renewable energy. We utilize the "by-product" generated from our production process; for example black liquor, which is the leftover after pulp production is turned into biomass energy.

We also have plans to increase solar power utilization for production and electric vehicles for transportation so as to reduce greenhouse gas emissions in another way. We follow the 4R principles – reduce, reuse, recycle and renew – to build a self-sufficient factory, achieving net zero carbon emissions.

## Social Harmony

The farmers earn extra income by planting the paper trees. The additional income earned by the farmers goes back into the community, creating a positive impact on the grassroots economy in Thailand.



*"Despite the challenging net zero target, we strongly believe that our determination and cooperation with all sectors will get us there. Together, we can drive the country to achieve its goal of net zero faster"*

**Mr. Yothin Dumnernchanvanit**  
Chairman of the Executive Board of Double A (1991)  
Public Company Limited