



PATENTS & TECHNOLOGIES



THE FLOORING INDUSTRY'S INNOVATION PARTNER OF CHOICE



## i4F GLOBAL SHOWCASE

**i4F is an innovations group focused on the development of patents and technologies for the flooring industry.**

i4F supports the global flooring industry by licensing cutting-edge technologies in the areas of drop-lock, digital printing, surface finishing, wall & ceiling, board composition and process.

Via its "pick and choose" **Patent Cluster Concept**, comprising close to 3,000 patents and technologies, i4F offers licensees unprecedented freedom of choice by offering them more options to select patents, or groups of patents, that best meet their business needs. Each cluster is designed to help licensees reinforce their existing market positions as well as to create new revenue streams.

i4F has strategic partnerships with the industry's most important IP players, including Classen, Kronospan, HMTX, Windmüller, CFL Flooring, Tarkett, Kingdom Flooring, Lico, Benchwick, QuickStyle Industries and Shaw Industries.



# Easiest is Best

## The world's easiest and best flooring installation systems

i4F drop-lock technologies, powered by **Click4U®** and **3L TripleLock®**, provide a unique drop-lock installation systems for flooring panels that eliminate the need for an additional insert on the short side.

### **Click4U® - Angle system for the long-side, combined with 3L TripleLock® on the short side**

The **Click4U®** angle system combined with the drop-lock on the short side provides very high locking strength and, just like 3L TripleLock®, is suitable for existing high speed production machinery. The system has multiple installation benefits as well. It is fast and easy to install and doesn't require any special tools.

### **3L TripleLock® - The "original" one piece drop-lock system for the short side**

**3L TripleLock®** is the easiest and fastest system for flooring installation on the market. There are no inserts needed like other fold-down systems. The elimination of the additional insert on the short side provides manufacturers with the possibility to improve productivity levels as well as to reduce their costs and carbon footprint. 3L TripleLock® is suitable for existing high speed production and has multiple installation benefits: it is up to 30% faster than basic clicks, there's no squeaking and no special tools are needed for installation.

Powered by **iClick4U**

FAST AND EASY  
TO INSTALL

NALFA-APPROVED  
NO CHEMICAL

SPRAYS OR SEALING  
SUBSTANCES

IMPROVED  
PRODUCTIVITY

STRONG PROVEN  
PERFORMANCE

SUITABLE FOR  
HIGH-SPEED MACHINES

INSTALLS UP TO  
30% FASTER THAN  
BASIC CLICK SYSTEMS

ALL MATERIALS,  
ALL FORMATS

NO INSERTS, NO PLASTIC

MEETS ALL EN  
PERFORMANCE  
STANDARDS



DROP-LOCK

Powered by **Click4U**  
and **3L TripleLock**



# Go Digital For Real

## Digital Printing for flooring is here!

Cutting-edge digital printing technologies enabling flooring manufacturers to create unique designs, achieve superior optical quality and avoid unnecessary inventory on pre-printed materials.

i4F licenses the world's most advanced digital printing technologies delivering results so close to the real thing it's almost impossible to tell the difference. Cutting-edge technologies immediately available via an i4F license enable the creation of unique designs and avoid unnecessary

inventory on pre-printed materials. i4F's strong digital printing portfolio now also includes exclusive access to all Hymmen digital printing technologies, including its award-winning Digital Lacquer Embossing (DLE) technology offering unbelievably real optics and haptics.



ALL MATERIALS  
—  
SPECTACULAR RESULTS  
—  
LESS WASTE



# Rise to the Surface

## Matt effect Surface treatment

A surface finishing treatment achieved through a sophisticated curing process delivering the ultimate matt look and enhanced benefits.

**MATT EFFECT  
SURFACE TREATMENT**  
—  
REDUCED LIGHT REFLECTION  
—  
IMPROVED SURFACE  
PERFORMANCE  
—  
LESS MAINTENANCE

**FLOOR AND WALL PANELS  
WITH GROUT FEATURES**  
—

**MORE REALISTIC,  
VISIBLE JOINTS**  
—

**GROUT-SHAPED RECESS  
CLOSE TO SURFACE OF  
PANEL EDGES**

## Grout: Keep it clean

A patented polymer core floor panel enhanced with grout features. The new panel enables aesthetically pleasing, visible joints by introducing a grout-shaped recess close to the surface of the panel on at least one of its edges.



# Climb the Walls

## Drive your flooring business upwards

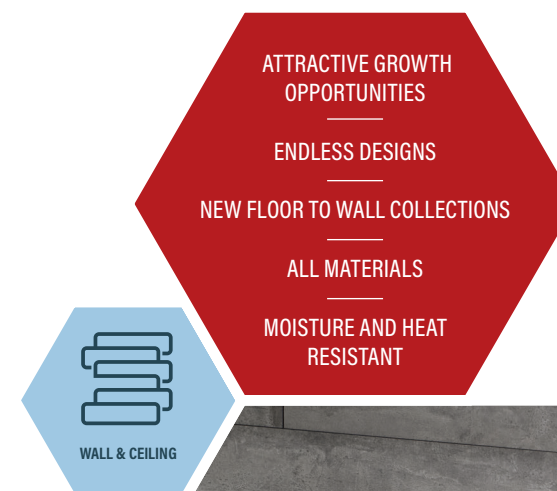
3D wall, flat wall and ceiling installation systems that enable manufacturers to enter new markets as well as leverage their existing designs by launching expanded collections combining floors, walls and ceilings.

### 3D Wall Installation System:

New patented installation system enabling three different levels of panels to connect for the creation of an amazing 3D effect on walls.

### Installation systems for Walls and Ceiling Panels:

A wall and ceiling panel click-system using an innovative profile providing variable joint options for easy installation and diverse design possibilities. A specific locking application for wall panels using glue is also available.





# Game Changers

## Designed for real life

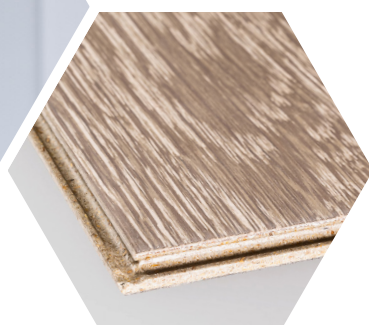
i4F seeks out and markets exciting innovations that have a profound impact on today's global flooring landscape by making a positive difference to everyday life.

NATURAL & SUSTAINABLE  
—  
MOISTURE & HEAT RESISTANT  
—  
ANY ROOM, ANY FLOOR –  
INCLUDING WET-ROOMS AND  
BASEMENTS



### Natural harmony with breakthrough MgO wood veneer board

A breakthrough magnesium oxide (MgO), veneer board that resolves virtually all the disadvantages currently associated with natural wood flooring by reducing moisture intake and flammability on any floor level or room type. The sound absorbing board provides a stone-wood composite base that keeps the wood veneer level dry and heat resistant by substantially retaining moisture and heat within the stone-wood base. As a result, the board can be used in any room and is particularly suited to those prone to high levels of heat and humidity like wet rooms, kitchens and greenhouses as well as on all floor levels, even basements. The new board is also environmentally-friendly as it uses less wood and eliminates the need for any sub-flooring.



MAINTAINS EVEN LEVEL  
OF CONDUCTIVITY  
—  
WORKS ON ALL TYPES OF  
ADHESIVES AND SUB-FLOORS  
—  
LOW MAINTENANCE

### Safety first with static-control, dissipative flooring

High-performance static dissipative and static conductive flooring solution designed to keep sensitive, high traffic environments, including operating theatres, computer rooms and electronics safe. These solutions are highly resistant and easy to maintain.

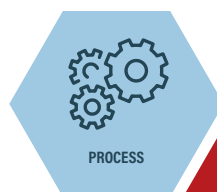




# Doing it Right

## Protecting our planet and reducing costs

Sustainable material savings are good for the industry and our planet! i4F licenses manufacturing processes that help the global flooring industry achieve its sustainability and cost management goals.



**BARRIER CREATION  
PROCESS FOR VINYL**  
PREVENTS GLUE AND INK MARKS  
HELPS REDUCE COSTLY CLAIMS  
EASY TO INTEGRATE

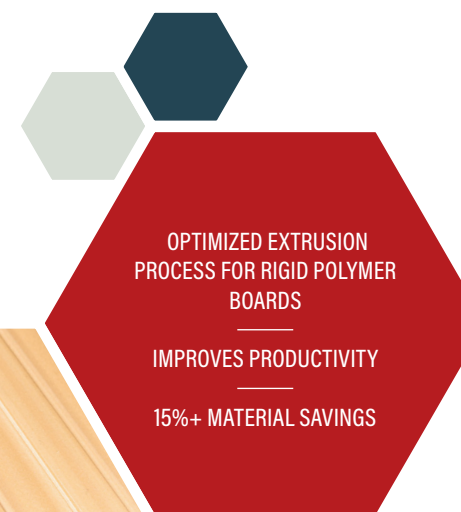
### Barrier against glue, ink & claims!

A manufacturing process that helps prevent glue and ink marks penetrating through to the surface of vinyl flooring often resulting in costly financial claims post installation.

### Liquid Laminate Technology (LLT) Light

LLT is a patented chemical process that delivers the cost-effective production of high quality melamine surfaces on laminate floorboards. LLT "Light" is specifically designed to meet the needs of customers and the increasing amounts of Embossed-in-Register textures.

**CHEMICAL PROCESS  
FOR LAMINATE**  
LESS WASTE  
MORE SUSTAINABLE



**OPTIMIZED EXTRUSION  
PROCESS FOR RIGID POLYMER  
BOARDS**  
IMPROVES PRODUCTIVITY  
15%+ MATERIAL SAVINGS

### LevioTech

A new patented technology enabling manufacturers to save up to 15% percent on materials during the production of rigid polymer boards. The technology enhances productivity by optimizing the extrusion process during the production of rigid polymer boards, including expanded polymer core (EPC) and solid polymer core (SPC) panels.







[WWW.i4F.COM](http://WWW.i4F.COM)