



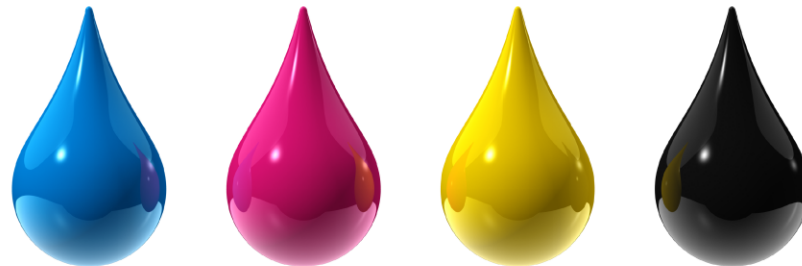
Trust TPRS to explore Glass

TPRS GLASS (SINCE 2005)



# TPRS INNOVINK

DIGITAL CERAMIC PRINTING CATALOGUE



WE GIVE LIFE TO YOUR IMAGINATION





# TPRS - QSPI

QUALITY SERVICEABILITY PROFESSIONALISM INNOVATION

We are a trusted Architectural, Automobile, Elevator and Escalator Glass solutions provider in India. We hold maximum market share in Automobile OE Segment, Architectural Segment and Elevator segment. We also export Automobile and Architectural glasses to UAE, UK, African and Asian countries.

TPRS is a 1000+ member family and we specialise in toughened safety glass, laminated safety glass, screen printed safety glass, digitally printed safety glass and insulated glasses for Architectural, Automotive Elevators and Escalators segment. We have obtained necessary certifications viz. ISO 9001 : 2015, E Marking, IATF 16949, COP, ISI 2553 Part I & II, CE Marking, AS 1288:2006, DOW Corning Quality Bond Certification.

We have many established laboratories in which all the testings are conducted in line with required standards. We support rapid new product development, supply quality products and adhere to delivery commitments and we value our customer satisfaction which is a driving force in all walks of our development.



Trust TPRS to explore Glass

TPRS GLASS (SINCE 2005)



# TPRS INNOVINK

## DIGITAL PRINTING SYNOPSIS

# INNOVINK - DIGITAL PRINTING

TPRS Innovink is a technology that adds functional decor to your structure along with functional properties such as thermal efficiency, shading etc.

TPRS Innovink uses both screen printing and digital printing technologies to give life to your imagination. TPRS holds the world's prestigious GPI series of DIP-TECH digital printing machine for glass. With the advanced and durable Ferro inks, we can print multi-colored patterns, textures or photorealistic images on glass. As digital ceramic printing technology has very high precision of colors and opacity, it is an effective medium to unleash your creativity on a structure. With the advanced ink solutions from FERRO – having 100 years of experience in ceramic inks - TPRS has a wide range of inks for multiple purposes.

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# TPRS INNOVINK

## 01 INTRODUCTION

## 02 WHY INNOVINK



# PROCESS INVOLVED IN DIGITAL PRINTING

## a) CERAMIC INK



## b) PRINTING ON GLASS



## PRINTING ON GLASS



# ANY FILE FORMAT IS ACCEPTABLE IN TPRS INNOVINK



# COMPONENTS INVOLVED IN DIGITAL PRINTING



INK FROM  
**FERRO**

**dip**®  
TECH  
A **FERRO** COMPANY

**TPRS GLASS**  
Trust TPRS to explore Glass  
TPRS GLASS (SINCE 2005)

World leader with 100yrs

Printer, Technical & Design support from Dip-Tech

Combined with world class processing facility, creative and unique Design expertise of TPRS glass

# TPRS INNOVINK

01 INTRODUCTION

02 WHY TPRS INNOVINK

03 PRODUCT PORTFOLIO



# WHY TPRS INNOVINK

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## DIGITAL CERAMIC PRINTING



Innovative and wide range of solution to bring your imagination to life

Aesthetical appearance with functional benefits

Color matching with approved mockup

Repeatability of colors



### ECO-FRIENDLY

Colors in this system do not contain voluntary additions of heavy metals – Pb, Cd, Hg and Cr6+

Using INNOVINK on your project increases your green building points for certification

Helps to prevent bird collision



Inhouse product and design development team to collaborate with you from concept to delivery

High technical quality with superior aesthetics

Effective traceability of designs and raw materials

# TPRS INNOVINK

## ADVANTAGES & FUNCTIONAL BENEFITS

### MEDIUM OF COMMUNICATION

**02** Adding your logo and theme on your wall and windows helps to exhibit your presence and ceramic printing is a permanent solution which lasts until the glass remains

**04** Multiple intricate shape and different size can be handled  
Every panel can have unique design  
Quick replacement for your immediate needs

### BRANDING

### CONVENIENCE

01

02

03

04

05

### SAVES ENERGY

### PRIVACY

### UV RESISTANT

**01** Ceramic printing on your exterior glass reduces the direct heat entering the building and thus saves your cost for cooling mechanism

Ceramic printing on glass helps to provide shading inside your building without the need of secondary structure

**03** Adding textures and customized patterns helps to increase privacy and it is also possible to attain one way visibility

**05** TPRS Innovink blocks the UV rays entering into your interior. This helps your interior lasts longer



02

WHY INNOVINK

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PRODUCT PORTFOLIO

# DESIGN DEVELOPMENT

**BASIC ASSISTANCE**

**GALLERY SUGGESTION**

**BRAINSTORMING**

**2D RENDERING**

**SAMPLE - 300 X 300**



**PREMIUM ASSISTANCE**

**3D RENDERING**

**MOCKUP**



03

DESIGN DEVELOPMENT

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PRODUCT PORTFOLIO

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DESIGN PORTFOLIO

# APPLICATION

Window, Door, Skylight, Facade, Table, Partition,  
Wall cladding



# THICKNESS OF GLASS

3.5, 4, 5, 6, 8, 10, 12, 15



# COLOR

PORTFOLIO & DMIX CHART

# COMBINE THE FOLLOWING

# DESIGN

PORTFOLIO



# INNOVINK CAN BE USED AS

PRINTED INSULATED GLASS

PRINTED LAMINATED GLASS

FROSTED PRINTED GLASS

SINGLE GLAZED PRINTED  
TOUGHENED GLASS

SINGLE GLAZED PRINTED HEAT  
STRENGTHENED GLASS

04

PRODUCT PORTFOLIO

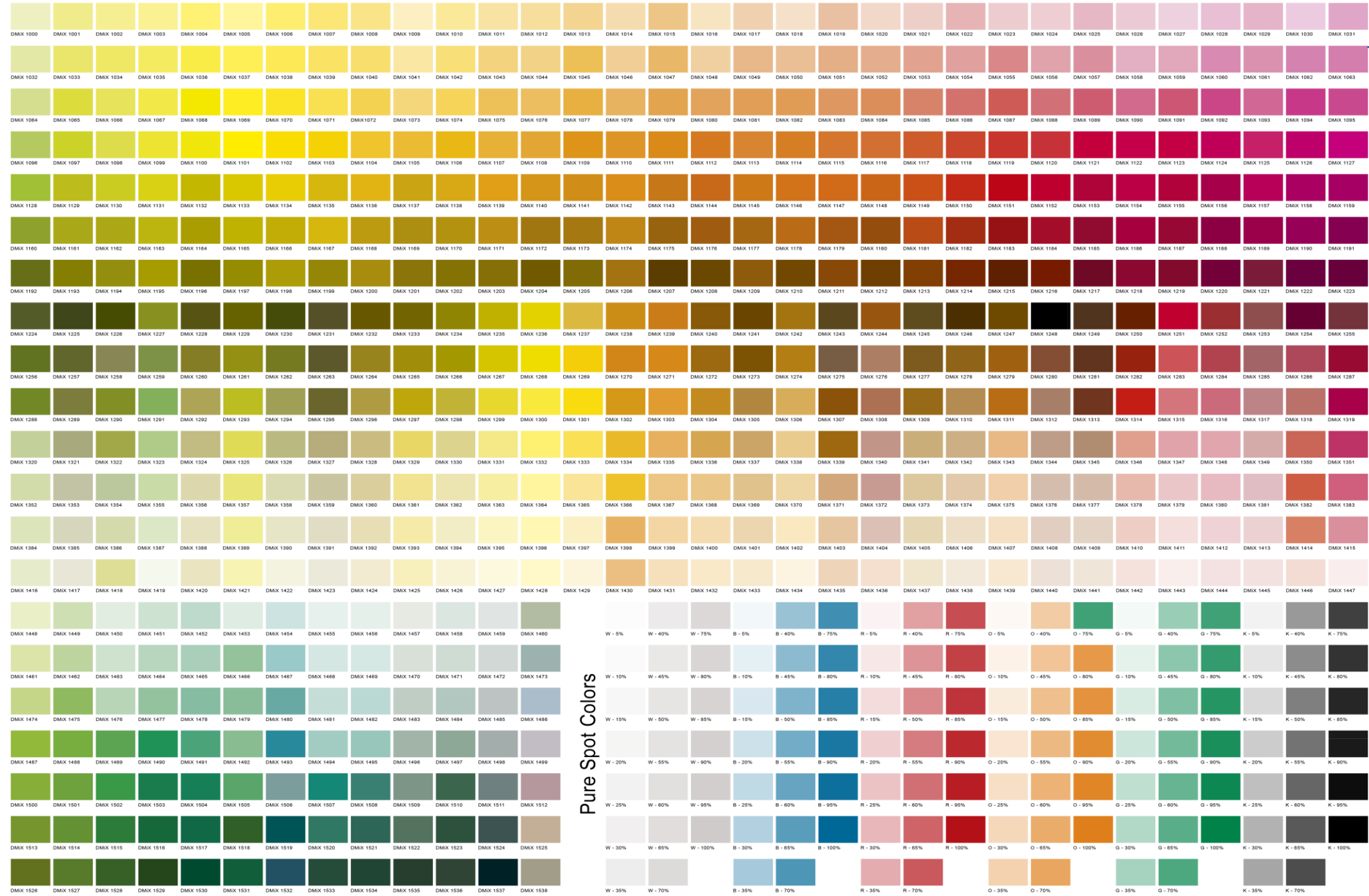
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DESIGN PORTFOLIO

06

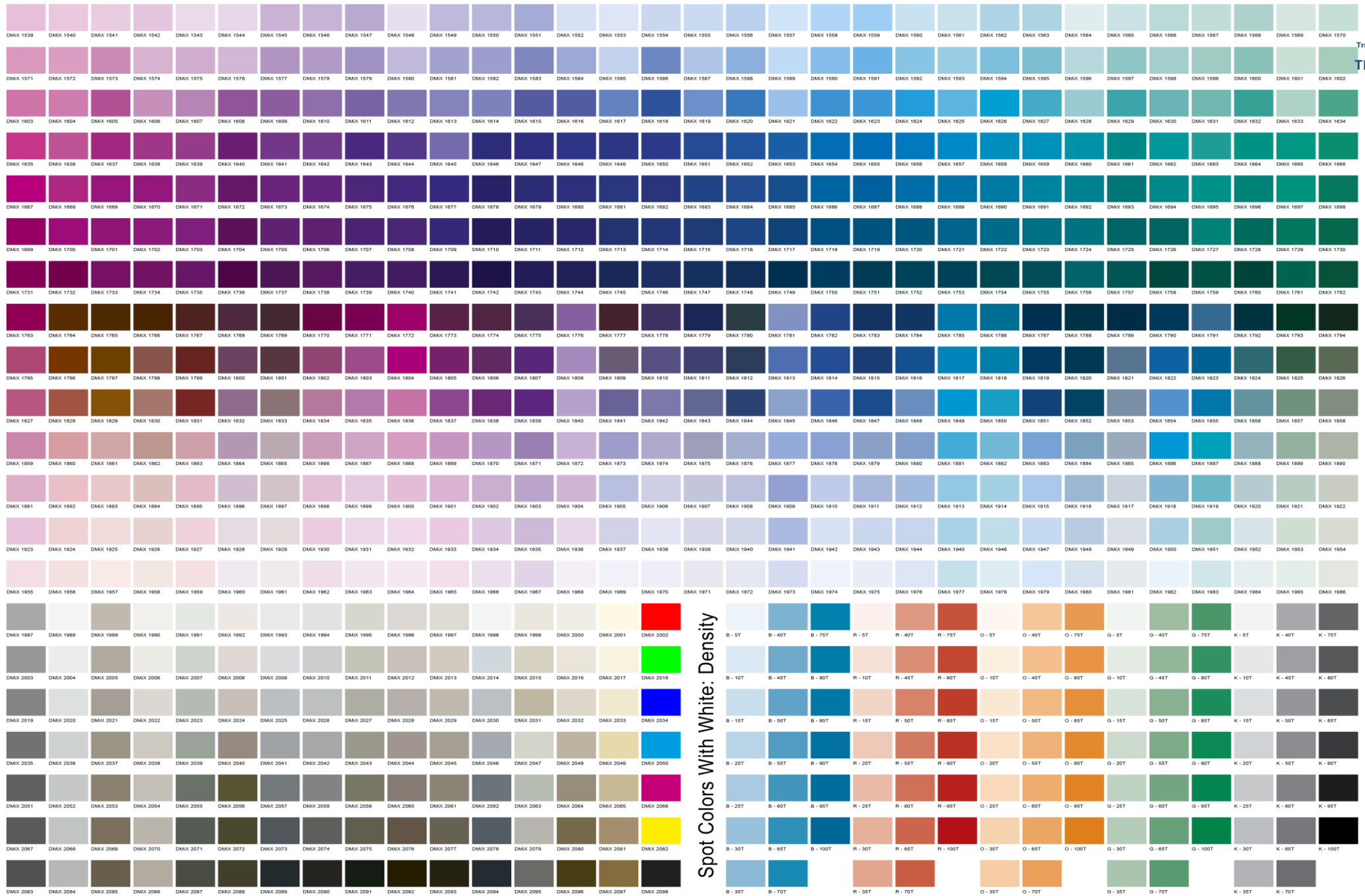
TECHNICAL DATA SHEET

# DMiX CHART

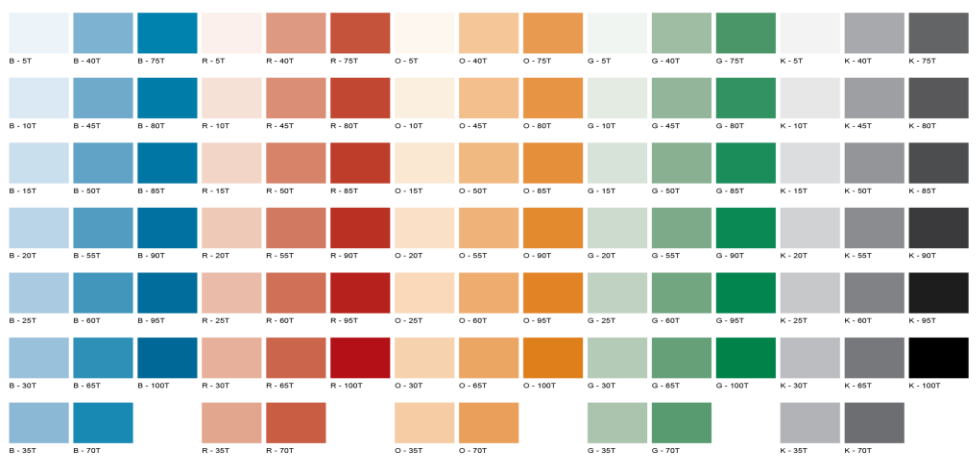


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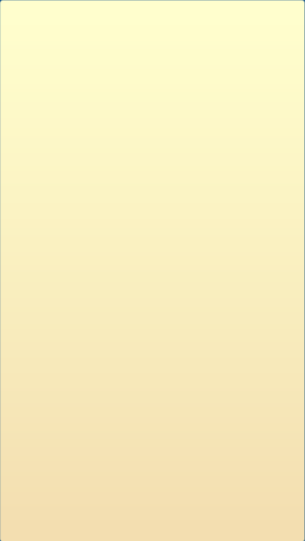
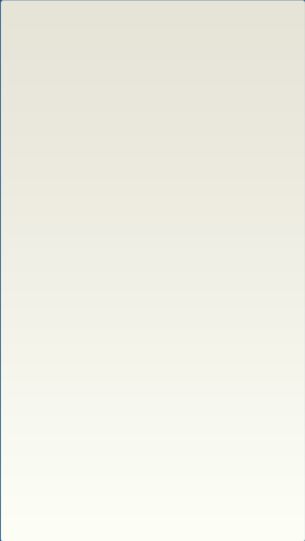
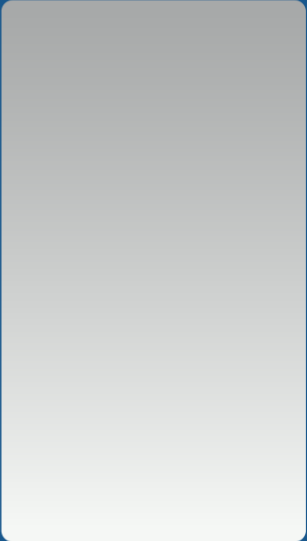
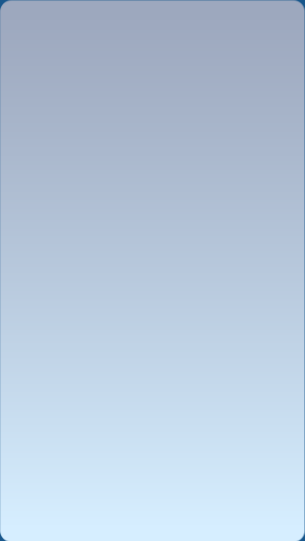
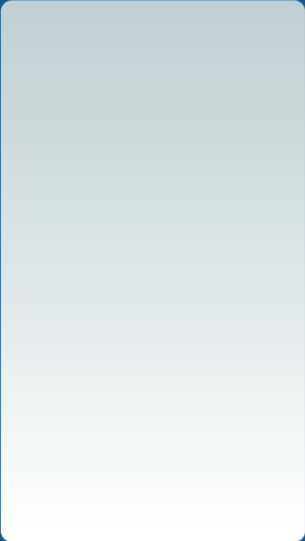
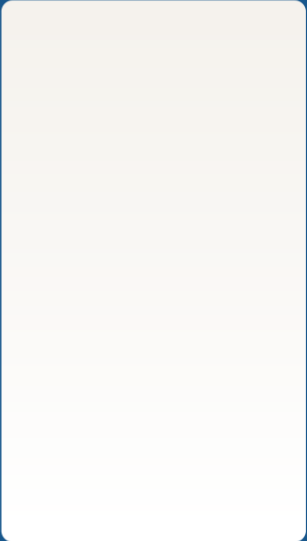
# DMiX CHART



Spot Colors With White: Density



# ADD GRADIENT TO INNOVATE YOUR PROJECT







Source : <https://www.dip-tech.com/printed-glass-projects/o-hare-international-airport>

FOG EFFECT - CONTROLLED OPACITY

TPRS INNOVINK

**DESIGN PORTFOLIO**



Source : <https://www.dip-tech.com>

GRADIENT EFFECT - CONTROLLED OPACITY

TPRS INNOVINK

**DESIGN PORTFOLIO**





**TW - 1**



**TW - 2**



**TW - 3**



**TW - 4**

**TPRS INNOVINK**  
**DESIGN PORTFOLIO**





PROCESSOR : POBO GLASS



**MARBLE TEXTURE**

**TPRS INNOVINK**  
**DESIGN PORTFOLIO**



# MARBLE TEXTURE



TM-01



TM-02



TM-03



TM-04

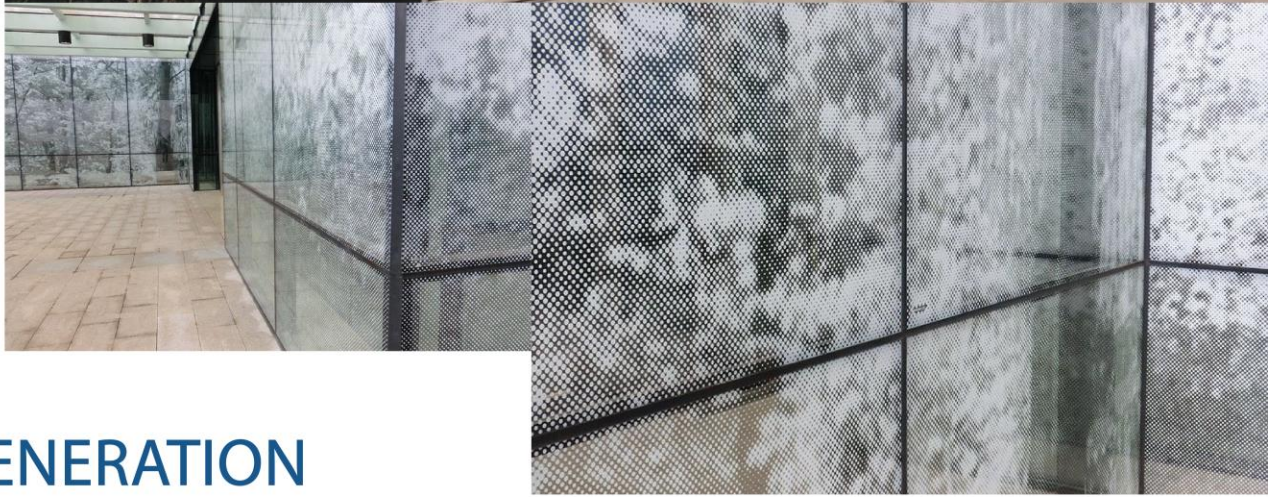




Architect : HDR & Corgan  
Processor : Oldcastle BuildingEnvelope



Source : <https://www.dip-tech.com/printed-glass-projects/china-guizhou-art-gallery>



# PATTERN GENERATION TPRS INNOVINK DESIGN PORTFOLIO





ACTIVE GLASS  
TPRS INNOVINK  
**DESIGN PORTFOLIO**



Harlem hospital, NY  
Architect : HOK, NY



Source : <http://www.dip-tech.com/printed-glass-projects/united-states-new-york-ny-harlem-hospital>

Kuopio University Hospital, Finland  
Architect : Partanen & Lamusuo



Source : <http://www.dip-tech.com/printed-glass-projects/kuopio-university-hospital>

CONCEPT PRINTING  
TPRS INNOVINK  
**DESIGN PORTFOLIO**



Harlem hospital, NY  
Architect : HOK, NY



Source : <http://www.dip-tech.com/printed-glass-projects/united-states-new-york-ny-harlem-hospital>

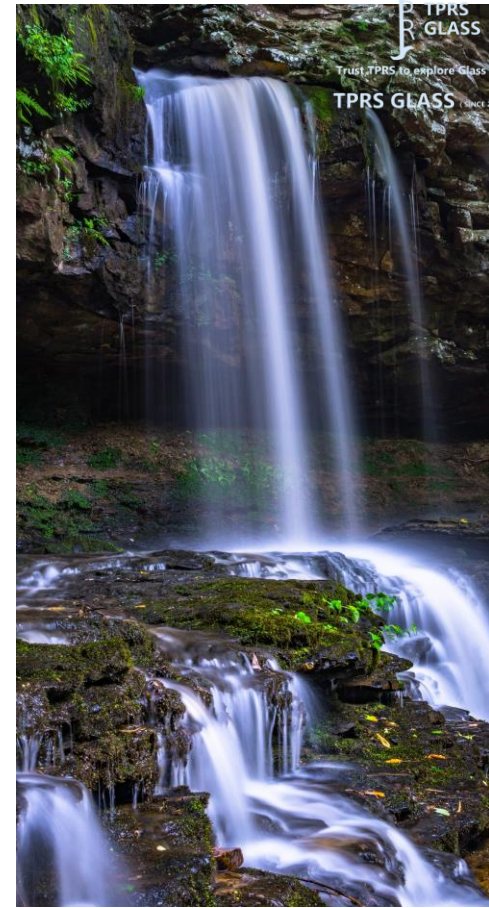
Kuopio University Hospital, Finland  
Architect : Partanen & Lamusuo



Source : <http://www.dip-tech.com/printed-glass-projects/kuopio-university-hospital>

CONCEPT PRINTING  
TPRS INNOVINK  
**DESIGN PORTFOLIO**



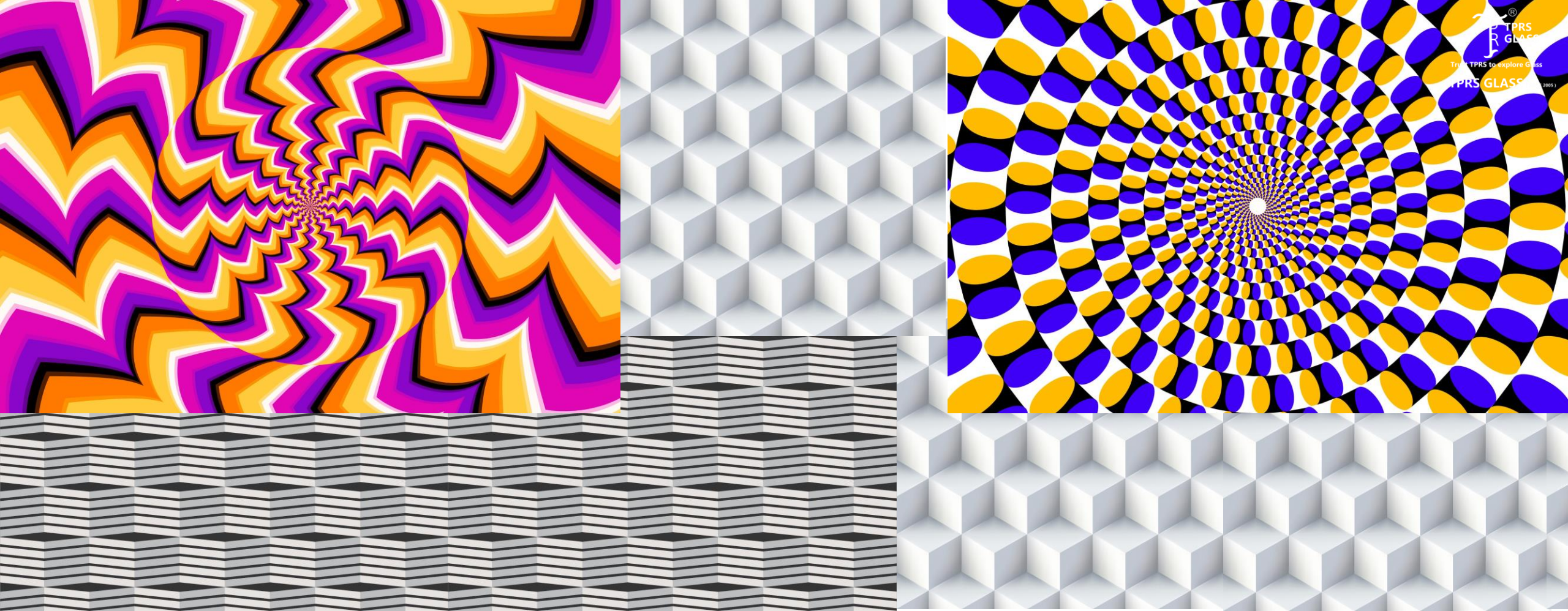


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CONCEPT PRINTING  
TPRS INNOVINK  
**DESIGN PORTFOLIO**

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ILLUSION & 3D VECTORS

**TPRS INNOVINK**

**DESIGN PORTFOLIO**

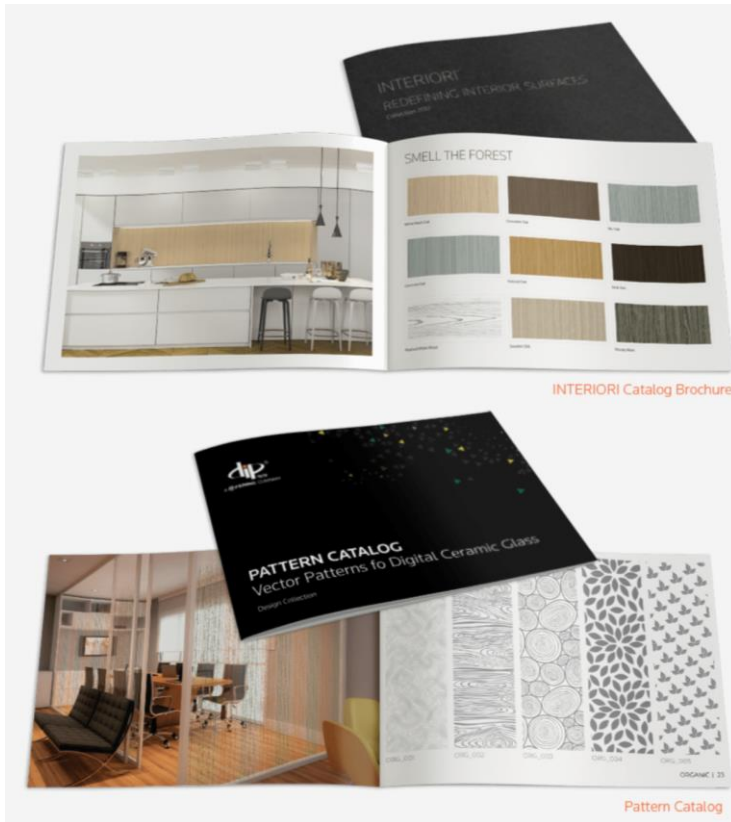


# DIPTECH GALLERY

01 Pattern Catalog

02 Interior Catalog

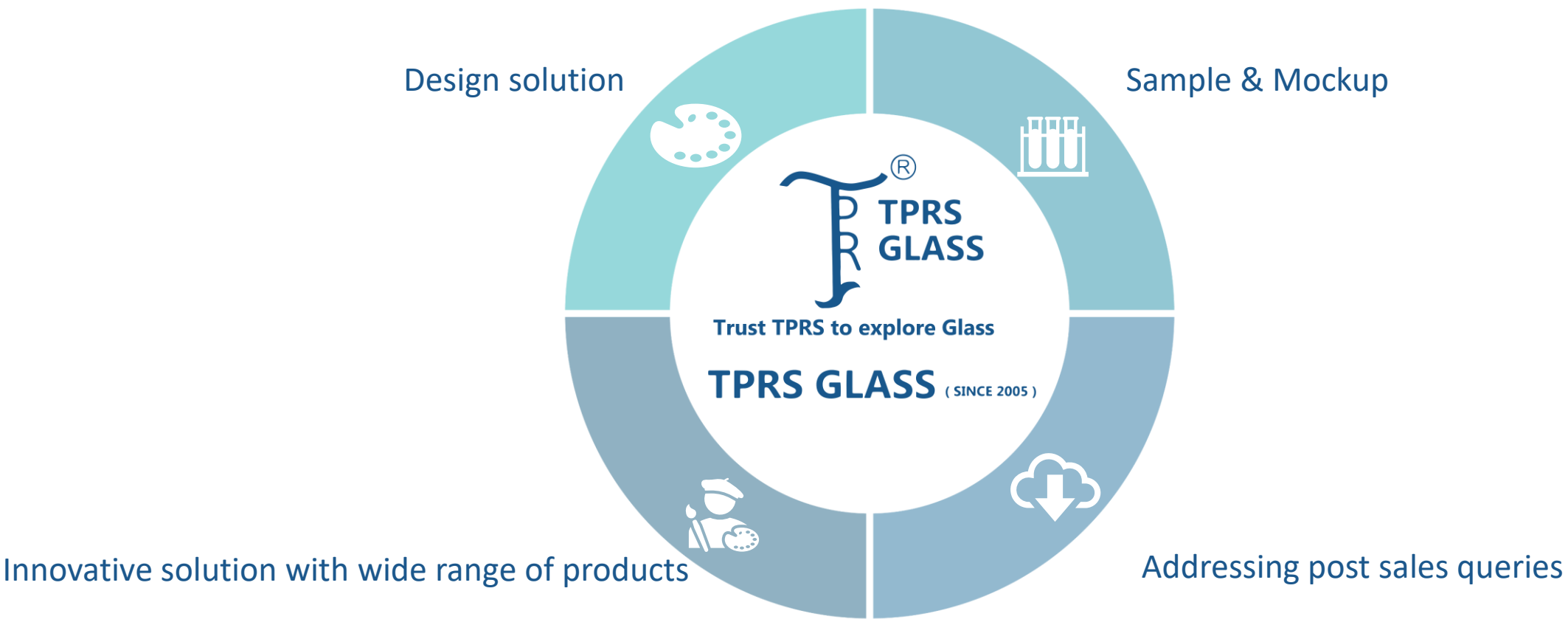
03 CMiX



WIDE RANGE OF DESIGN COLLECTION FROM DIPTECH EXCLUSIVE TO TPRS GLASS

# OPTIONS ARE ENDLESS – CREATIVITY IS LIMITLESS

Great minds deserves great solution & your project is in right hands



**EXPLORE MORE BY CONNECTING WITH OUR TEAM MEMBERS**

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DESIGN PORTFOLIO

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QUALITY ASSURANCE

# TECHNICAL DATA SHEET

## FUNCTION :

Can be used in all application for aesthetic and functional benefits with respective installation procedure

## DIMENSIONS :

Maximum width : 2400 mm  
Maximum height: 4500 mm

## THICKNESS OF GLASS :

Maximum thickness : 19 mm  
Minimum thickness : 4 mm

## LIGHT TRANSMISSION :

As per specification

**SCRATCH RESISTANCE TESTS :**  $\geq 30$  N ( Elcometer hardness tester)

**SURFACE HARDNESS :** ~ 5 (Mohs scale)

**DURABLE - CERAMIC INK** is heat treated after applying on glass and the ink gets fused with the glass and hence it lasts longer.

## ACID RESISTANCE :

Tests has been conducted on Citric Acid, Acetic acid, HCl, Sulphuric acid

## ALKALI RESISTANCE :

Test conducted on NaOH

## STAIN RESISTANCE :

Test conducted on methylene blue

# Dip-Energy

## PRINTED GLASS PERFORMANCE CALCULATOR

The interface includes a camera icon with a slash through it, indicating that image uploads are disabled. A 'Use white as' dropdown menu is set to 'white', with 'clear' as an alternative. The 'Color' dropdown is set to 'White', and the 'Ink level thickness' is set to '30 Micron'. A 'Coverage' slider is positioned at 100%. The 'Printed Side' dropdown is set to 'Side 1'. Under the 'Solar' section, the 'R %' slider is at 29% and the 'T %' slider is at 71%. Under the 'Visible' section, the 'R %' slider is at 35% and the 'T %' slider is at 65%. The 'Calculate' button is active, and the 'Reset' button is inactive. The results show an SHGC Value of 0.42 and a T value % of 30.

Use white as  
white  
clear

Color White  
Ink level thickness 30 Micron

Coverage 100%

Printed Side Side 1

Solar  
R % 29%  
T % 71%

Visible  
R % 35%  
T % 65%

Calculate Reset

SHGC Value 0.42  
T value % 30

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PROJECT PORTFOLIO

# FROM VARIOUS TESTS TPRS INNOVINK IS



UV RESISTANT



IR RESISTANT



CHEMICAL RESISTANT



WEATHER AND  
WATER CONDENSATION  
RESISTANT



SCRATCH RESISTANT

We are certified under various Indian, European and Australian standards

FIRST SAINT GOBAIN CO-BRADED COMPANY



# QUALITY ASSURANCE



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QUALITY ASSURANCE

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PROJECT PORTFOLIO

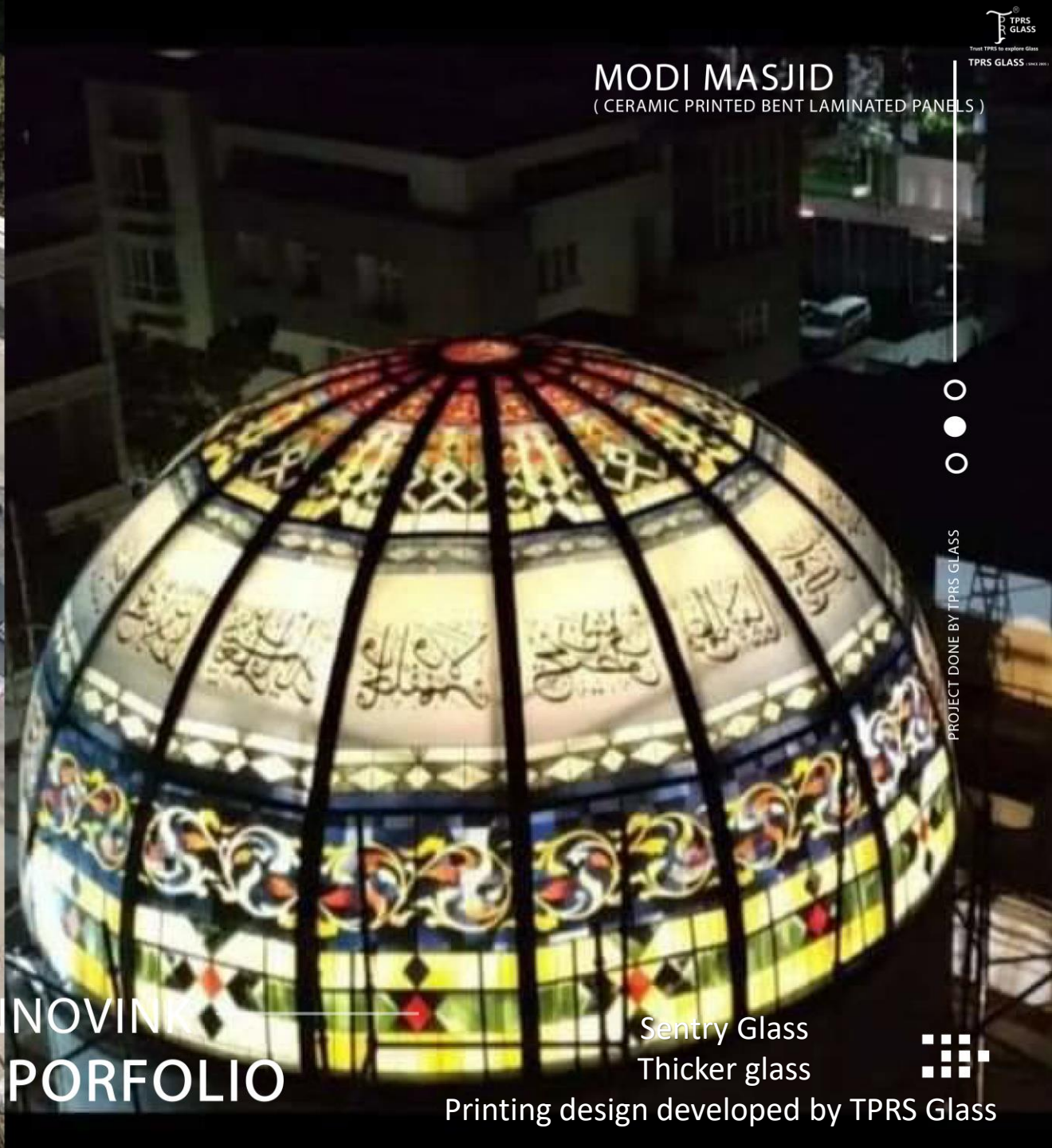
# MODI MASJID, BANGALORE

Inspired from a masjid at brunae, the team planned for a divine mosque at Bangalore. From the concept of arabic calligraphy to digitally printed curved laminated glass, TPRS has been a part in each stage of project. One of the most challenging printing has been executed in the best possible way.





TPRS INNOVATION  
**PROJECT PORTFOLIO**



**MODI MASJID**  
( CERAMIC PRINTED BENT LAMINATED PANELS )



PROJECT DONE BY TPRS GLASS

Sentry Glass  
Thicker glass

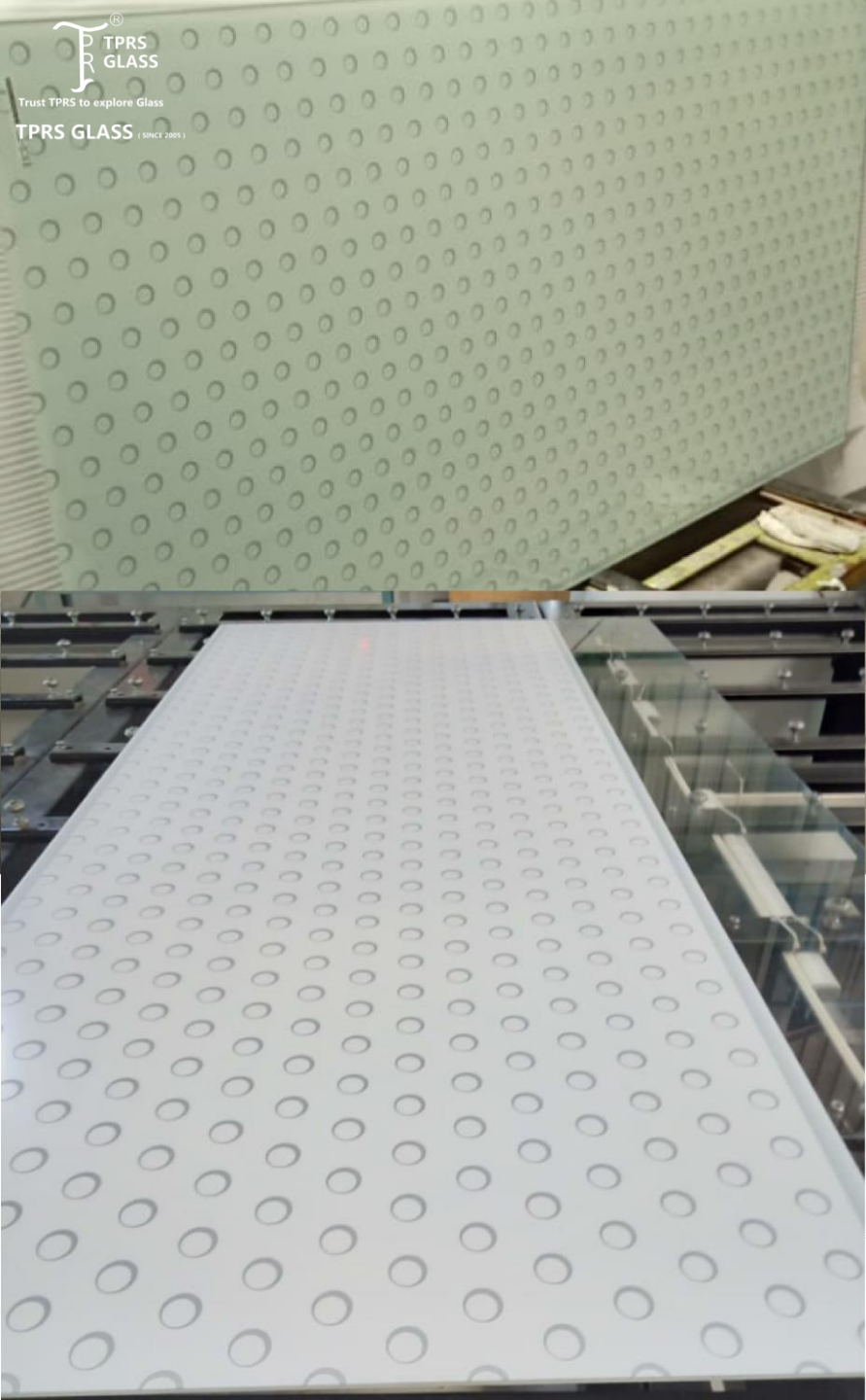
Printing design developed by TPRS Glass





# CMDA, CHENNAI

The Chennai Metro Development Association planned its most advance building with ceramic printed panels insulated with Low E glass. This combination made the building more energy efficient. The printed panels give a perforated sheet effect to the skin of the building.



**TPRS GLASS**  
Trust TPRS to explore Glass  
TPRS GLASS SINCE 2005



**CMDA, CHENNAI**  
( DIGITALLY CERAMIC PRINTED INSULATED GLASS )

PROJECT TPRS GLASS

TPRS INNOVINK  
**PROJECT PORTFOLIO**



SKN754 Insulated glass



# RESIDENTIAL PROJECT, BANGALORE

Innovative partition with collapsible provision. The digitally printed glass depicts the happy dance of peacock when the partition is closed or open. This innovation creates soothing ambience as it matches with the theme of the interiors



# RESIDENTIAL PROJECT

( ARCHITECT : AL-ZASSZ Greystone )

PROJECT DONE BY TPRS GLASS

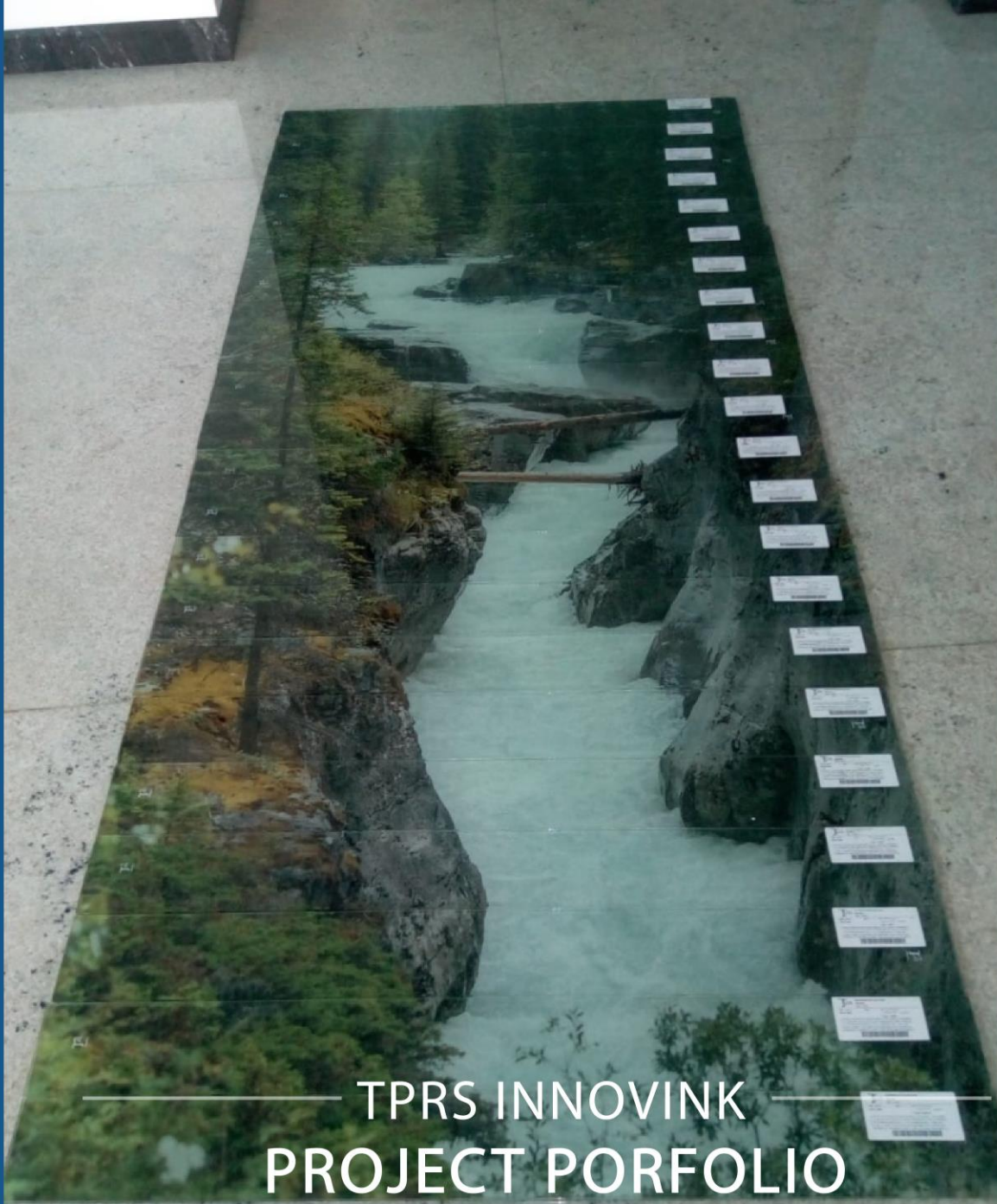
TPRS INNOVINK  
PROJECT PORTFOLIO



# RESIDENTIAL PROJECT, MADURAI

Aesthetic conceptual printing on steps risers. These risers give an illusion of walking on falls.





# TPRS INNOVINK PROJECT PORFOLIO

## RESIDENTIAL PROJECT MADURAI



PROJECT DONE BY TPRS GLASS



Responsive to customer needs



Inhouse product and design development team



Always audit ready for vendor assessment



100 % quality  
We bring 25 years of safety glass expertise

Clear and transparent account statement



Easy access to all levels of people in management



Superior Finish  
High accuracy



Just In Time delivery  
Short lead time



Realtime support for post sales enquiry



Quick adaptability to any changes



Round the clock operations



Packaging to suit your needs



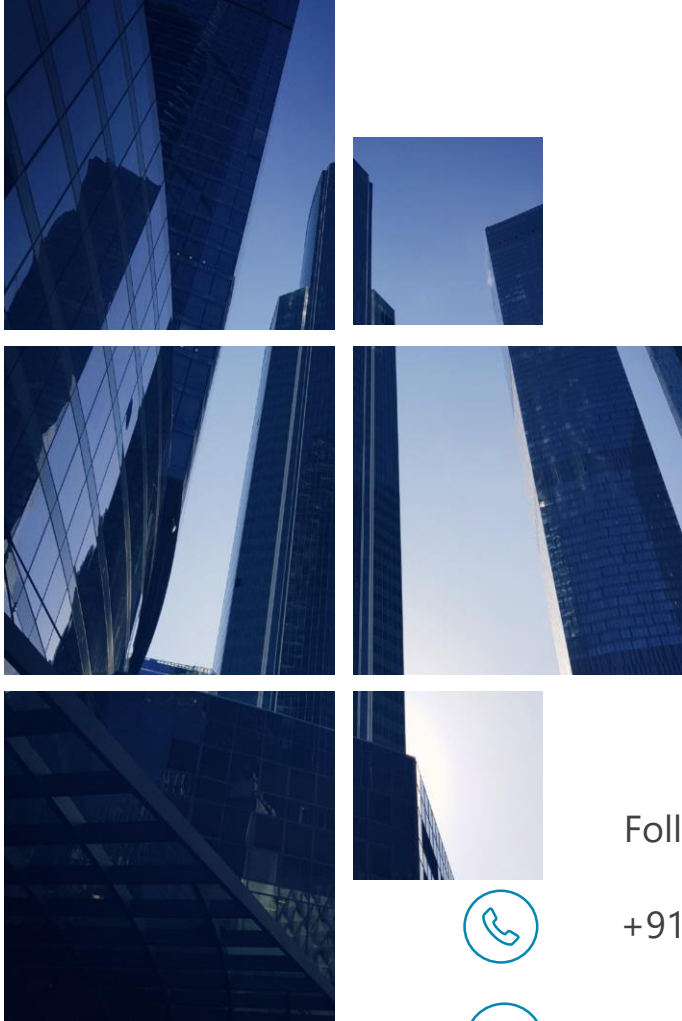
# WHY TPRS ?





# TRUST TPRS

to explore glass






*We will be happy to assist you with the most trusted glass and fabrication suggestions*

## TPRS

### Values – QSPI

- Quality
- Serviceability
- Professionalism
- Innovation

## YOUR PROJECT COULD BE THE NEXT ONE

Follow us on   



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