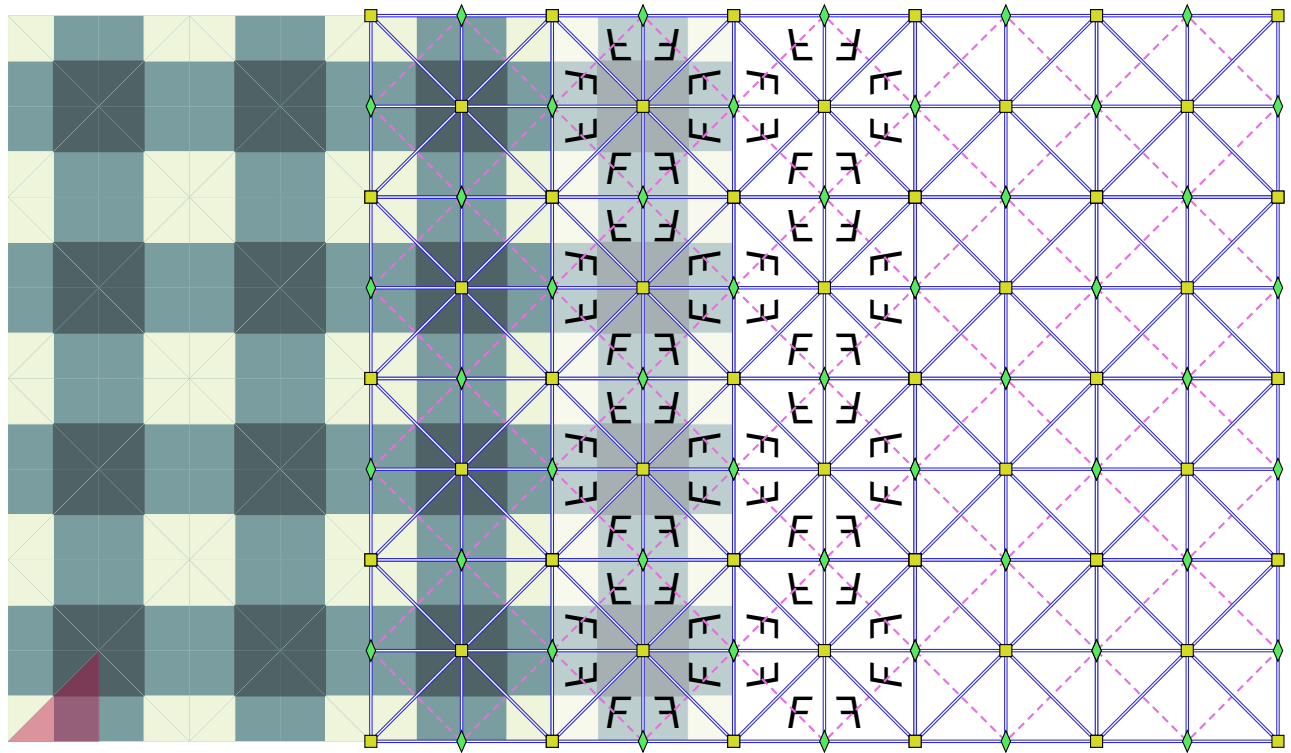


GROUP: P4M



ORBIFOLD SIGNATURE

*442

IUC NOTATION

p4m

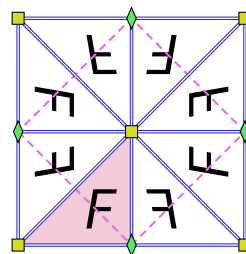
COXETER NOTATION

[4, 4]

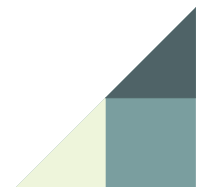
LATTICE TYPES

Square

LATTICE STRUCTURE



SAMPLE CELL



ROTATIONS

◆ Two Fold Rotations

One center of 180° rotation, located at intersection of reflection and glide reflection axes

■ Four Fold Rotations

Two centers of 90° rotation, located at intersection of reflection axes

REFLECTIONS

— Reflections

Four directions

- - - Glide Reflections

Two directions, perpendicular

NOTES

A tiling of squares with four fold symmetry, or a checkerboard pattern of two distinct squares with four reflection axes. Gingham and plaid are examples, as is a chessboard. Characterized by “quarter turns and mirrors.”

GROUP: P4M

FUNDAMENTAL CELL

SAMPLE TILING

