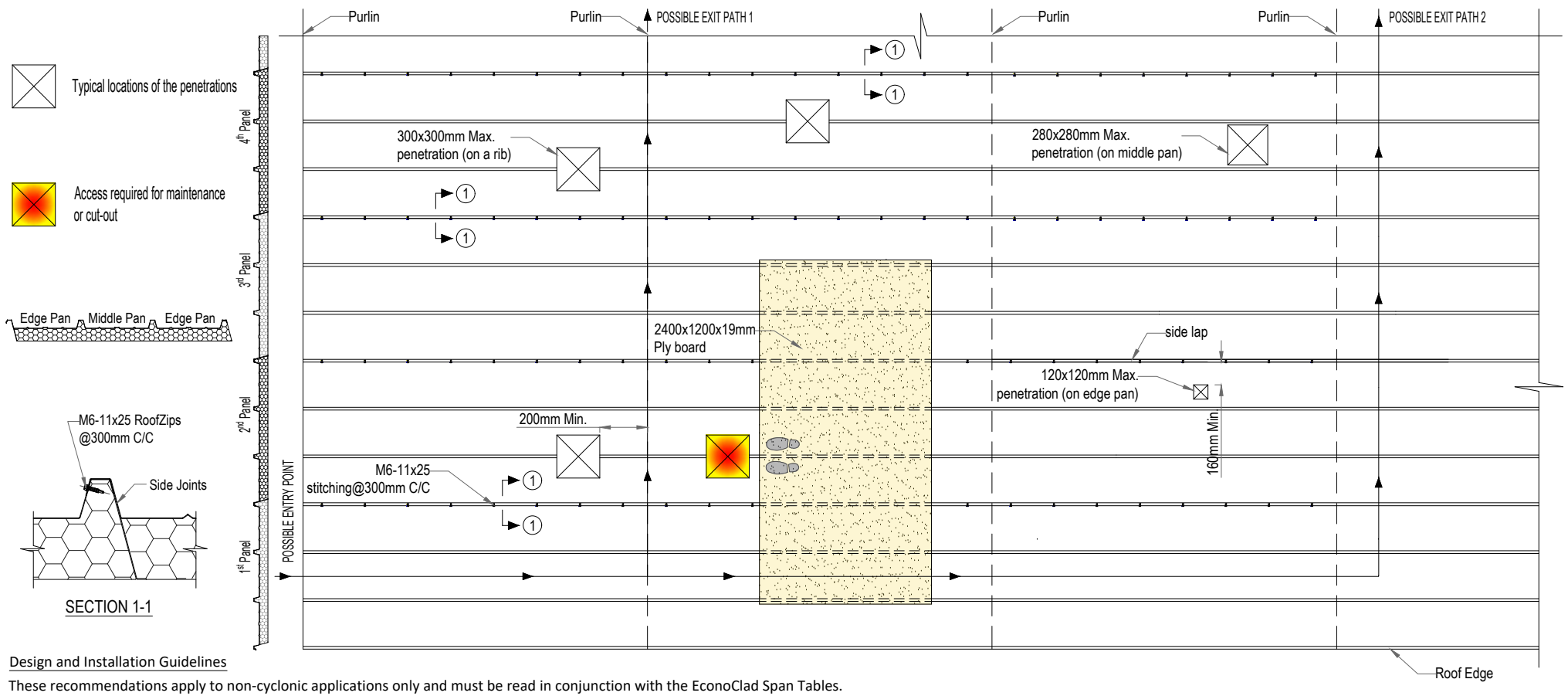

Design and Installation Guidelines

These recommendations apply to non-cyclonic applications only and must be read in conjunction with the EconoClad Span Tables.

1. Maximum penetration sizes are 300x300mm square or 300mm in diameter. Penetrations smaller than the pan width (280mm) may be located in the middle pan of EconoClad without the cut going through the ribs. Smaller penetrations can be located on the end pans with a 160mm edge distance to the side laps.
2. Only one penetration is allowed per panel, per span with no penetration in the adjoining panels on either side.
3. No penetrations are permitted on single spanning panels or the first panels on the roof edge.
4. Penetrations must be placed 200mm away from the face of a support.
5. Multiple penetrations may be cut on the same rib, but they must be on different spans. Penetrations must be placed symmetrically across a rib and no penetration is allowed through the overlapping ribs.
6. 25, 40 & 60mm panels may span up to 1.5m (Multi); 80 & 100mm panels may span up to 2.4m, refer EconoClad Span Tables for details. No reduction in the Span Table pressures is required.
7. Where penetrations are cut, side lap stitching is required using M6-11x25mm RoofZips @ 300mm C/C. Stitch the entire span starting 150mm from the support.
8. Penetrations must be encapsulated and covered as per Metecno guidelines as soon as possible. Maximum permanent point load on a penetration is 0.15kN. The load must be distributed evenly along encapsulated edges.
9. Maximum concentrated live load of 1.1kN is allowed on any one panel at a given time. Walk on the un-cut pans or directly over a purlin when crossing a panel with penetration.
10. Walking on the cut-out pans is not permitted during or after the cut-out. A 19mm ply board platform must be placed across three panels for accesses while cutting the panel or for maintenance purposes afterward.

MILANOVIC NEALE
CONSULTING ENGINEERS
BRISBANE OFFICE
5/63 Annerley Road, Woolloongabba QLD 4102
PO Box 8380, Woolloongabba QLD 4102
T 07 3255 1877 F 07 3255 1878
IPSWICH OFFICE
18 Canning Street, North Ipswich QLD 4305
PO Box 2118, North Ipswich QLD 4305
T 07 3281 6603 F 07 3281 6602

Andrew Morrison
RPEQ 12942
PE-0002021
05-Nov-2021

MNCE PROJECT S12440

metecno
Trading as Bondor, Metecno PIR & National Polystyrene Systems
1300 300 099
ABN 44 096 402 934

© METECNO 2019

TITLE	ECONOCLAD ROOF PENETRATION DETAILS
DESCRIPTION	PENETRATION GUIDELINES
PRODUCT CORE	PIR
APPLICATION	EXTERNAL ROOFS - REGIONS A & B
SHEET	1 OF 1
DRAWING NUMBER	EPC-PI-RF016
REVISION	REV 01
A3	

MOD. No.	DATE	MODIFICATION DESCRIPTION	MODIFICATION BY	APPROVED BY
0	18.10.2021	INITIAL ISSUE	I.T.	H.A.

DRAWN. BY: I.T. DATE:
APPROVED. BY: H.A. 04/11/2021

THIS DRAWING IS COPYRIGHT AND THE PROPERTY OF METECNO PTY LTD. IT IS SUBJECT TO THEIR RECALL AND MAY NOT BE REPRODUCED OR ITS CONTENTS DIVULGED WITHOUT WRITTEN AUTHORITY.

DIMENSIONS ARE IN mm SCALE: 1:1