

4. Joints between adjacent sheets shall not be more than 3 mm wide and shall be sealed on the concrete side to prevent loss of grout during concreting.
5. Concrete poured against the lining shall be compacted by suitable methods in a careful manner so as not to damage the lining and produce a dense, homogenous concrete securely anchoring the ribs or anchors into the concrete. The Engineer shall reject any work if he considers that any part of that work contains defective concrete and the work shall be removed and reinstated at no cost to the ADM.
6. After pouring, the concrete shall be left to cure for a minimum of 48 hours prior to striking the formwork. When removing formwork care shall be taken to protect the lining from damage.
  - a. Sharp instruments or tools shall not be used to pry formwork from the lining.
  - b. Any formwork materials that remain in the lining shall be removed and the resulting holes clearly marked.
  - c. Formwork tie holes shall be marked before ties are broken off and all areas of abrasion or damage shall be marked.
7. All abraded areas in the lining shall be patched. Any one patched area shall not exceed 0.25 m<sup>2</sup> or as directed by the Engineer.
  - a. Patch shall be made of the same material as the parent lining.
  - b. All surfaces shall be prepared and all patching work shall be carried out in accordance with the manufacturer's recommendations.
8. Unless otherwise shown on the drawings the lining shall be returned at least 100 mm onto built in items such as manhole frames, gate guides and pipes or to where the type of lining is changed or new work is built against existing unlined concrete. At each return, the lining shall be sealed to the adjacent material with an approved adhesive system or if this is not acceptable an alternative proposal shall be submitted to the Engineer for approval.
9. The lining at joints shall be free of all foreign matter and shall be clean and dry before the joints are welded.
10. All jointing materials shall be similar to that of the parent lining for thickness, corrosion resistance and impermeability unless otherwise approved by the Engineer.
11. Welded joints shall show no cracks or separations.
12. Welding strips which extend beyond the edge of the lining shall be tested as follows:
  - a. Welding strips shall extend 50mm beyond the edge of the lining to