



**TRANSPORT SCOTLAND (Agency of the Scottish Executive)
TRUNK ROAD & BUS OPERATIONS (Bridges & Structures Team)
TS INTERIM AMENDMENT No 32 – The Deflection of Permanent Formwork**

SUMMARY

This Interim Amendment provides clarification on the deflection of permanent formwork during the construction of trunk road bridges.

1. BACKGROUND

Transport Scotland Interim Advice Note 32 provides clarification on the deflection of permanent formwork during the construction of trunk road bridges on Transport Scotlands Motorways and Trunk Road Network.

BA 36/90 The Use of Permanent Formwork, paragraph 4.1.7, states that...

“Deflection of permanent formwork 4 hours after completion of concreting should not exceed 1/300 of the span of the formwork unit. In assessing deflection, allowance should be made where necessary for creep.”

2. ACTION

Until further notice, paragraph 4.1.7 should be taken to read as follows:

“The formwork may be pre-cambered by not more than 1/150 of the span of the formwork unit, and the creep deflection of the formwork between completion of concreting and four hours later should not exceed 1/300 of the span.

The limits on deflection, including that during concreting, and the need for precamber, should be determined taking into account appearance and the movement of formwork relative to reinforcement.”

3. IMPLEMENTATION

This TS IA should be implemented on all Transport Scotland schemes, where permanent formwork will be used for the construction of trunk road bridges.

It is intended to update BA 36/90 in due course.

4. FURTHER INFORMATION

If you have any queries about individual schemes, please contact the relevant Transport Scotland Unit Bridge Manager.