



Bonneagar Iompair Éireann
Transport Infrastructure Ireland

TII Publications



Implementation and Use of TII Publications (Standards) Documentation

GE-POL-01030

June 2016

About TII

Transport Infrastructure Ireland (TII) is responsible for managing and improving the country's national road and light rail networks.

About TII Publications

TII maintains an online suite of technical publications, which is managed through the TII Publications website. The contents of TII Publications is clearly split into 'Standards' and 'Technical' documentation. All documentation for implementation on TII schemes is collectively referred to as TII Publications (Standards), and all other documentation within the system is collectively referred to as TII Publications (Technical).

Document Attributes

Each document within TII Publications has a range of attributes associated with it, which allows for efficient access and retrieval of the document from the website. These attributes are also contained on the inside cover of each current document, for reference.

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TII Publications Website

This document is part of the TII publications system all of which is available free of charge at <http://www.tiipublications.ie>. For more information on the TII Publications system or to access further TII Publications documentation, please refer to the TII Publications website.

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TII Publications



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1. Introduction

Transport Infrastructure Ireland (TII) has been created from the merging of the National Roads Authority (NRA) and the Railway Procurement Agency (RPA), and is responsible for managing and improving the country's national road and light rail networks.

TII produces and manages a wide range of standards and technical documentation related to its remit, which is made freely available to users through the TII Publications system website (www.tiipublications.ie). For further information in relation to the TII Publications system, please refer to GE-INT-01029 - Introduction to the TII Publications System.

This documents sets out the policies of TII for implementation and use of the collection of standards documentation, referred to as TII Publications (Standards), which forms part of the TII Publications system.

2. Implementation of TII Publications (Standards)

2.1 TII Publications (Standards) Definition

TII Publications (Standards) is a collection of documentation (documents and drawings) that define the standard to be complied with in respect of the design, construction or maintenance of National Roads schemes in Ireland. TII Publications (Standards) documentation can be accessed through the online website (<http://www.tiipublications.ie/>), and includes documentation containing mandatory requirements, guidance, advice and standard drawings.

2.2 General Implementation

TII Publications (Standards) shall be used forthwith for the design, construction or maintenance of National Roads schemes. All TII Publications (Standards) are to be implemented in accordance with the instructions given with that particular document, and as relevant to the requirements of the scheme. The inclusion of a document or drawing in the TII Publications (Standards) confirms its status as a TII compliance document, and the system provides a control mechanism for its retention and updating.

TII Publications (Standards) documentation includes a combination of technical requirements, advice, guidance and standard drawings, sometimes combined within a single document. Mandatory technical requirements are indicated by the wording used. For example, in the following statement, the use of the word “shall” indicates that the requirement is mandatory:

‘The criteria given in Table 3 shall apply for all situations where the...’

TII Publications (Standards) has been prepared for use by appropriately qualified and experienced professional staff. It is not a statutory or regulatory suite of documentation. It is not intended to be a training manual and nor does it cover every point in exhaustive detail. Many matters are left to the professional expertise and judgment of users, while others are covered elsewhere in National or European standards, codes of practice and specifications: where relevant these are cross-referenced in the text.

While TII Publications (Standards) have been devised specifically for use on National Roads schemes, it is noted that all physical interfaces within adjacent schemes shall also be designed in accordance with TII Publications (Standards).

The use of TII Publications (Standards) for schemes which do not involve the design, construction or maintenance of National Roads schemes shall be agreed with the relevant authority for that scheme. In this case, the applicability of each part of the TII Publications (Standards) system to such a scheme shall be verified and confirmed.

The technical requirements given in TII Publications (Standards) must be adhered to for relevant schemes, unless a Departure is approved (see Section 4 below).

2.3 Implementation in Contract Documents

The implementation of TII Publications (Standards) in Contract Documents is the responsibility of the Compiler of the Contract Documents. Contract Documents for each National Road scheme shall be compiled in a manner that includes specific reference to all relevant documents and drawings within TII Publications (Standards) that relate to the scheme.

All documents and drawings contained in the following streams within the system are considered mandatory, unless a document or drawing has no relevance to the design, construction or maintenance of that particular scheme;

- Specification for Works (SPW)
- Requirements for Measuring and Pricing (RMP)
- Standard Construction Details (SCD)

The omission or amendment of any applicable mandatory requirement within the documents or drawings in these groups shall only be allowed under an Approved Departure from Standards (See Section 4).

Where amendments, omissions or extensions are envisaged to the SPW, RMP or SCD within the Contract, such changes should be presented as part of the compiled documentation for approval through the Departure from Standards process.

3. Relaxations within TII Publications (Standards)

In some instances the technical requirements in a document prescribe a number of levels of provision. In such cases the particular requirements must be met, but the user has discretion to relax the criteria within certain limits if it is not practical to meet the absolute criteria in full. This can be, for example, for reasons such as linking into the existing road network or to reduce the impact on property or the environment, where safety issues are not compromised and the cost of complying with the full requirements cannot be justified.

Relaxations may be introduced at the discretion of the designer, having regard to the advice given in TII Publications (Standards) and all the relevant local factors. Careful consideration must be given to layout options incorporating relaxations, having weighed the benefits and any potential disbenefits. Particular attention should be given to the safety aspects and the environmental and/or cost benefits which would result from the use of relaxations. The designer shall record the fact that a relaxation has been used and the corresponding reasons for its use. The record shall be endorsed by the design organisation's senior engineer responsible for the scheme. The design organisation shall report all relaxations incorporated into the design as part of the project report at the end of each project management phase.

4. Departures from TII Publications (Standards)

For National Road schemes, where special circumstances arise and the straightforward application of the technical requirements cannot be justified for some reason, such as the environmental impact or cost, users are encouraged to come forward with Departures from Standards which go beyond relaxations to propose additional criteria (for aspects not covered by existing documents) based on a reasoned assessment. All proposals for Departures must be submitted to TII for consideration on their merits. Applications for all Departures shall be made in accordance with the procedures outlined in GE-GEN-01005 - Departures from Standards and Specification.

Users must ensure that any proposal involving a Departure from technical requirements is formally approved by TII prior to incorporation into the design. Approval cannot and will not be given retrospectively.

5. Wider Use of TII Publications

TII Publications (Standards) set a standard of good practice that has been developed principally for the National Road network in Ireland. They are also applicable to other roads with similar characteristics. Where they are used for regional and local schemes, it is for the relevant authority to decide on the extent to which the documents in TII Publications (Standards) are appropriate in any particular situation.

While the requirements given in TII Publications (Standards) may be the best guidance available to regional and local authorities, such authorities shall ensure that their application to regional and local schemes does not compromise safety, result in poor value for money or have an unacceptable impact on the environment. It is recommended that any authority making use of TII Publications (Standards) establish formal procedures for considering whether it is appropriate to depart from particular requirements.

6. Legislation

The documentation within TII Publications (Standards) does not make reference to all legislation that may be applicable to relevant schemes. Anyone engaged in the design, construction, operation or maintenance of National Roads schemes, must comply with all applicable current legislation.

7. Construction Products

In compliance with the Construction Products Regulation (EU) No 395/2011 (CPR), all construction products covered by a harmonised European product standard (hEN) must have a Declaration of Performance (DoP) and a CE mark in order for them to be placed on an EU market. All parties working on TII funded schemes (including for the design, construction, operation or maintenance of National Roads schemes) must comply with the CPR. This requirement applies throughout all parts of TII Publications (Standards), where a hEN is applicable.

TII Publications (Standards) in consideration of the basic requirements for construction works has set out the regulations for products incorporated into National Roads schemes in Ireland for both harmonised and non-harmonised product standards.

8. TII Publications Website

TII maintains a website specifically dedicated to TII Publications. The website is located at the following address and contains the current and archived versions of all TII Publications:

Web-site: <http://www.tiipublications.ie>

For more information regarding navigation through the TII Publications website, refer to GE-INT-01029 - Introduction to the TII Publications System.

9. References

9.1 TII Publications Standards References

GE-GEN-01005 Departures from Standards and Specification

GE-INT-01029 Introduction to the TII Publications System

9.2 TII Publications Technical References

PE-PMG-02004 Project Management Guidelines

9.3 References to IS/EN/BS Standards

Construction Products Regulation (EU) No 395/2011 (CPR)



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