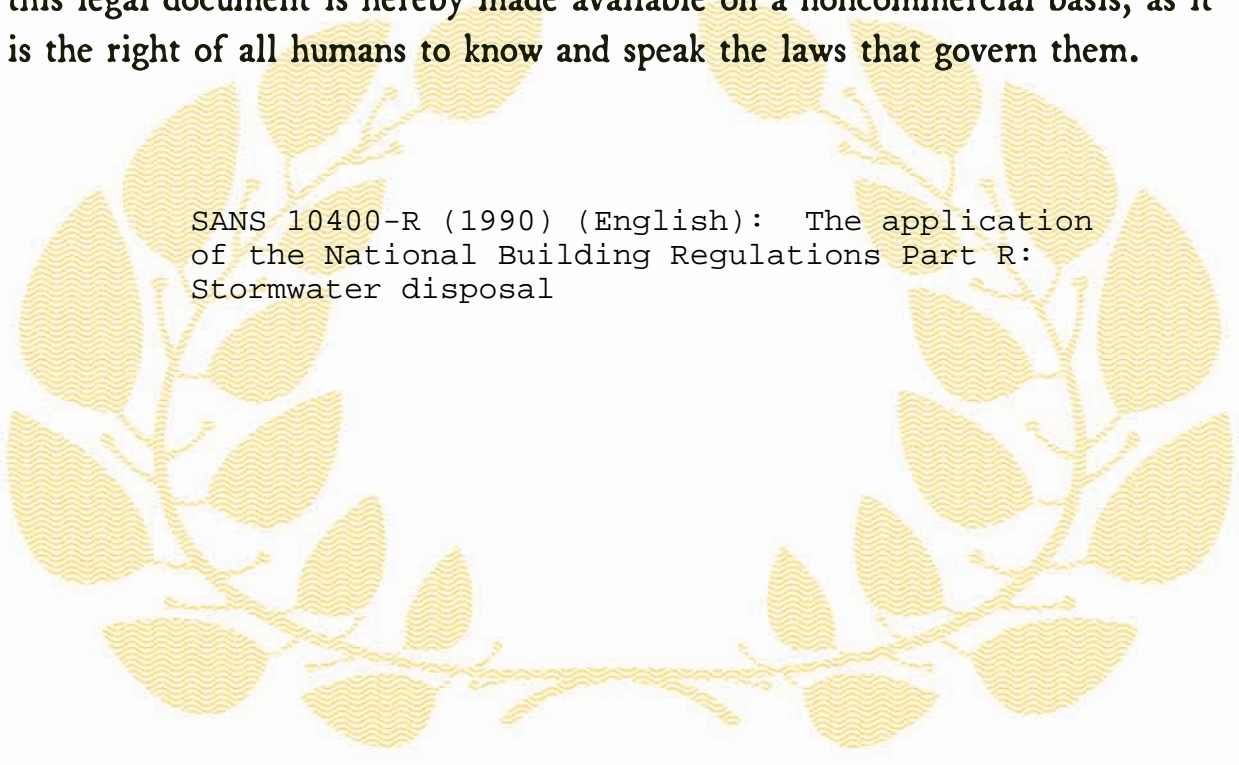




# *Republic of South Africa*

## EDICT OF GOVERNMENT

In order to promote public education and public safety, equal justice for all, a better informed citizenry, the rule of law, world trade and world peace, this legal document is hereby made available on a noncommercial basis, as it is the right of all humans to know and speak the laws that govern them.



SANS 10400-R (1990) (English): The application  
of the National Building Regulations Part R:  
Stormwater disposal



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# PART R STORMWATER DISPOSAL

## REGULATIONS

### R1 STORMWATER DISPOSAL REQUIREMENT

(1) The owner of any site shall provide suitable means for the control and disposal of accumulated stormwater which may run off from any earthworks, building or paving.

(2) Such means of stormwater disposal may be in addition to or in combination with any drainage works required in terms of regulation F4(2).

(3) The requirements of subregulation (1) shall be deemed to be satisfied where —

(a) the means of stormwater disposal is the subject of an acceptable rational design prepared by or under the supervision of a professional engineer or other approved competent person; or

(b) such means of stormwater disposal is provided in accordance with Part R of section 3 of SABS 0400: Provided that where a local authority is of the opinion that the conditions on any site render it essential for stormwater disposal to be the subject of a rational design, such local authority shall, in writing, notify the owner of such site of its reasons for the necessity for such design, and may require such owner to submit for approval plans and particulars of a complete stormwater control and disposal installation for such site and for any building erected thereon, based on such design.

### R2 SAVING

(1) These regulations shall not be construed as requiring the installation in any building of any roof gutter or downpipe where other suitable means has been provided to ensure the disposal or dispersal away from such building of rainwater from the roof of such building.

(2) The regulations in this Part shall not apply to any site used exclusively for the erection of any dwelling house or any building appurtenant thereto: Provided that where, due to special site features, the discharge of stormwater from such site may cause significant damage, the local authority may require compliance with regulation R1.

## DEEMED-TO-SATISFY RULES

### RR1

#### GENERAL

The regulations contained in Part R of the National Building Regulations shall be deemed to be satisfied where the means of stormwater disposal complies with deemed-to-satisfy rules contained in the following provisions of this Part.

### RR2

#### STORMWATER DISPOSAL

Any means of stormwater disposal on any site shall include —

- (a) in the case of any building on such site, roof valleys and gutters and downpipes or, where gutters and downpipes have not been provided, other means of ensuring that stormwater from any roof is controlled and will flow away from such building; and
- (b) any surface stormwater drains, channels or below-ground stormwater drains that may be necessary to convey stormwater away from such site or from one part to another part of such site.

**RR3 VALLEYS AND GUTTERS**

**RR3.1** Any valley or gutter shall have a cross-sectional area of not less than that given in Table 1, for the rainfall region in question.

**TABLE 1 — ROOF VALLEY AND GUTTER SIZES**

1	2
Rainfall region	Internal cross-sectional area of valley or gutter per m <sup>2</sup> of roof plan area served
Summer	140 mm <sup>2</sup>
Year-round	115 mm <sup>2</sup>
Winter	80 mm <sup>2</sup>

**RR3.2** Such requirements in respect of any downpipe shall be deemed to be satisfied where the internal cross-sectional area of such downpipe is not less than 100 mm<sup>2</sup> per 1 m<sup>2</sup> of roof plan area served by such downpipe: Provided that such internal cross-sectional area is not less than 4 400 mm<sup>2</sup>.

**RR4 ACCESS TO STORMWATER DRAINS**

On any stormwater drain ready means of access shall be installed at such intervals that no part of such drain, measured along the line of such drain, is more than 40 m from such means of access.

**RR5 CONNECTION TO STORMWATER SEWER**

Where any stormwater sewer is available in any street or servitude abutting any site to be provided with stormwater drainage, the owner of such site shall, if so required by the local authority, at his own cost install one or more stormwater drains to be connected by the local authority to such stormwater sewer.

**RR6 USE OF STREET SURFACE DRAINAGE SYSTEM**

Where the local authority considers the capacity of any street surface drainage system to be adequate to accept the discharge of stormwater from any site it may permit such stormwater so to discharge: Provided that the owner of such site shall, where so required by the local authority, at his own cost provide one or more conduits to convey such stormwater to such street surface drainage system.