Business Rules for enrolled operators

Safety, Productivity & Environment Construction

Transport Scheme (SPECTS)

Smarter Safer Cleaner
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1. About the Safety, Productivity & Environment Construction Transport Scheme Business Rules

1.1 Purpose
Rocks and Maritime Services (Roads and Maritime) administers and maintains the Safety, Productivity & Environment Construction Transport Scheme (SPECTS or the Scheme). These Business Rules (SPECTS Business Rules) set out the administrative framework and additional obligations for participants in SPECTS.

1.2 SPECTS Overview
The purpose of the Scheme is to improve the safety, environmental performance and productivity of heavy vehicles used by the construction industry in NSW. Under the Heavy Vehicle National Law (NSW) (HVNL), the National Heavy Vehicle Regulator (NHVR) has issued a notice to authorise specified eligible heavy vehicles (nominated vehicles) which meet the requirements of the Scheme to use approved roads and routes.

The NSW Class 2 Safety, Productivity & Environment Construction Transport Scheme Authorisation Notice 2016 (Notice) provides an enrolled operator’s nominated vehicles with greater access to a prescribed network in return for greater safety, environmental and compliance requirements.

Under SPECTS, Roads and Maritime will enrol nominated vehicles to authorise their movement by participating heavy vehicle operators on the network identified in the Notice. Participation in SPECTS is subject to the conditions contained in the SPECTS Business Rules.

1.3 How the SPECTS Business Rules will be amended
Roads and Maritime may amend the SPECTS Business Rules from time to time. Amendments may constitute part of or the whole of this document. The current version of the SPECTS Business Rules will be available on the Roads and Maritime website at www.rms.nsw.gov.au/spects. Amendments to the SPECTS Business Rules will be published on the Roads and Maritime website identifying the amendments and the date the amendments come into effect.

1.4 Requirement to comply with amended SPECTS Business Rules
It is a condition of the SPECTS Notice that enrolled operators comply with the SPECTS Business Rules as amended from time to time.

Enrolled operators must use the latest version of the SPECTS Business Rules. They are not entitled to rely on any earlier version of the SPECTS Business Rules, as a reason for non-compliance with the latest version.
2. Application of the Scheme

2.1 Eligible vehicles

*Eligible Vehicle* means a Performance Based Standards (PBS) approved vehicle that meets the PBS Bridge Loading standard at Tier 1 (except for the quad axle prime mover semi-trailer combinations listed at paragraph c) and paragraph e) which may operate under the Scheme if they meet the PBS Bridge Loading standard at Tier 3) that is enrolled in the Scheme and is:

a) A PBS Level 1 or 2A 3 or 4 axle rigid truck towing a 3 axle dog trailer with a current PBS Vehicle Approval for operation at up to 54.0 tonnes and with a maximum overall length no greater than 20.0 metres; or

b) A PBS Level 1 or 2A 3 or 4 axle rigid truck towing a 4 axle dog trailer with a current PBS Vehicle Approval for operation at up to 57.5 tonnes and with a maximum overall length no greater than 20.0 metres; or

c) A PBS Level 1 prime mover semi-trailer combination with a quad axle group with a current PBS Vehicle Approval for operation at up to 50.5 tonnes and with a maximum overall length no greater than 20.0 metres (this combination may operate if it meets the Bridge Loading standard at Tier 3); or

d) A PBS Level 1 prime mover semi-trailer combination with a tri-axle group with a current PBS Vehicle Approval for operation at up to 46.0 tonnes and with a maximum overall length no greater than 20.0 metres; or

e) A PBS Level 1 concrete agitator prime mover semi-trailer combination with a quad axle group with a current PBS Vehicle Approval for operation at up to 50.5 tonnes and has a maximum overall length no greater than 20.0 metres (this combination may operate if it meets the Bridge Loading standard at Tier 3); or

f) A PBS Level 1 concrete agitator prime mover semi-trailer combination with a tri-axle group with a current PBS Vehicle Approval for operation at up to 46.0 tonnes and has a maximum overall length no greater than 20.0 metres; or

g) A rigid concrete agitator with a current PBS Vehicle Approval for operation at PBS Level 1; and

h) Has a maximum height of 4.3m; and

i) Is engaged in “construction activity”.

An operator must not exceed the mass available under the PBS Vehicle Approval and must comply with the lower of: the applicable mass set out above or the mass stated in the PBS Vehicle Approval.

2.2 Nominated vehicle

A *nominated vehicle* is an eligible vehicle nominated by an operator to operate under the Scheme.

2.3 Stated areas or routes

The nominated vehicles of an enrolled operator are permitted to travel on all State Roads and approved local roads in the NSW Urban Zone excluding bridges signposted with load limits. This is the SPECTS Network and can be accessed at the Roads and Maritime website at [www.rms.nsw.gov.au/spects](http://www.rms.nsw.gov.au/spects).
The SPECTS Network will be published and amended in the manner provided for in section 142A of the HVNL.

2.4 Construction activity

For the purposes of paragraph 2.1(e):

i) A person engages in Construction Activity where the person is involved in the transport of one or more of the construction materials listed in paragraph 2.5 of the SPECTS Business Rules.

ii) A person also engages in Construction Activity where the person is involved in travel in an unladen Eligible Vehicle to a place from which one or more construction materials (as listed in the SPECTS Business Rules) are to be picked up or from a place after one or more construction materials have been delivered.

iii) A person may drive an unladen Eligible Vehicle for an ancillary purpose such as taking the vehicle from its usual garaging address to, and returning from, a place at which it will be loaded with construction materials or a place for the purpose of servicing, maintenance or repairs.

2.5 Construction materials

For the purposes of paragraph 2.4 construction materials mean any of the following:

- Bitumen
- Bricks and masonry
- Cement and concrete
- Fly ash and slag
- Glass
- Plasterboard
- Quarry products (aggregates and sand)
- Spoil and demolition waste
- Steel
- Timber

A list of definitions of construction materials is at Table 1 in Appendix 1.

A load being carried in or on a nominated vehicle of an enrolled operator may comprise more than one type of construction material.

Loads consisting of one or more construction materials together with other types of goods are not permitted.

(Note: to obtain the benefit of operating under the Scheme the entire load being carried must consist of construction materials as set out in paragraph 2.5 of these Business Rules.)

3. Enrolment in the Scheme

3.1 Purpose of enrolment
The purpose of enrolment is to ensure that the vehicle operator’s nominated vehicles comply with the requirements of the Heavy Vehicle National Law, the SPECTS Notice and the SPECTS Business Rules. Nothing in these Business Rules obliges Roads and Maritime to grant enrolment to any nominated vehicles.

3.2 Eligibility criteria for enrolment

As a condition of enrolment, an applicant must satisfy Roads and Maritime that all of the applicant’s nominated vehicles comply with the requirements of the SPECTS Business Rules and the SPECTS Notice.

Enrolment applications may be made by sole traders or corporations with an Australian Business Number (ABN) issued in the name of the enrolled operators. Applications for enrolment will not be accepted from trusts.

In the case of an applicant that is a corporation the applicant must nominate a contact person for the purposes of representing the applicant in dealings with Roads and Maritime under the Scheme. The contact person must have the authority to sign documents on behalf of the applicant including the application form.

3.3 Application for Enrolment

An application for enrolment must be in the form approved by Roads and Maritime and published on the Roads and Maritime website. Enrolment will be for a period of 12 months.

Checklist for enrolment

Applications must include the following and be signed by the applicant:

i) The name, address and contact details of the applicant;
ii) The ABN, trading name and the name and contact details of the contact person if the applicant is a corporation;
iii) Registration details of the applicant’s nominated vehicles; and
iv) Evidence that the vehicles nominated by the applicant for use under the Scheme meet all of the relevant vehicle requirements (see section 4 Eligible vehicle requirements).

At the time of lodging the Application Form for enrolment in SPECTS the applicant must provide satisfactory documentary evidence that the vehicle meets all of the conditions set out in section 4. Eligible Vehicle Requirements of these Business Rules. The following forms of evidence are acceptable:

a) Where the vehicle is new and the required equipment and fittings were included as part of the manufacture process a letter or report from the vehicle manufacturer. The letter or report must specify each part of the equipment or fittings that is fitted to the vehicle; or
b) Where the required equipment and fittings were fitted after the manufacture process a letter or report from the vehicle or equipment manufacturer or dealer or supplier or installer who fitted the equipment. The letter or report must specify each part of the equipment or fittings that is fitted to the vehicle; or

c) A letter or report from an Authorised Vehicle Examiner (AVE) certifying that the vehicle is fitted with the required equipment and fittings. The letter or report must specify each part of the equipment or fittings that is fitted to the vehicle. (Note that in
providing such a letter or report the AVE is not exercising a function under the Vehicle Standards Compliance Certification Scheme (VSCCS)); or
d) A statutory declaration from the applicant attesting that the vehicle is fitted with the required equipment and fittings. The declaration must specify each part of the equipment or fittings that is fitted to the vehicle.

An applicant may use a combination of these forms of documentary evidence to establish that the vehicle meets the SPECTS vehicle requirements.

3.4 Determining applications for enrolment

(a) Assessment of applications
Roads and Maritime may decline to assess an application that does not include all required information, and may contact the applicant to:

i) Advise what additional information is required to enable the assessment of the application; or

ii) Require the applicant to resubmit the application with all required information.

Roads and Maritime will assess all applications received against the eligibility criteria set out in the SPECTS Business Rules and in the SPECTS Notice and may contact the applicant to provide further information if required.

Roads and Maritime may at its sole discretion decide to not process an incomplete application. If an incomplete application is received, the applicant may be contacted to provide the outstanding information. The application process may not proceed until all outstanding information is received from the applicant.

(b) Accepting applications
If Roads and Maritime is satisfied the applicant meets the eligibility criteria of the SPECTS Business Rules and the SPECTS Notice, Roads and Maritime will issue the applicant:

i) an IAP Certificate of Enrolment for the heavy motor vehicles stating the SPECTS and OBM SPECTS IAP networks/schemes; and

ii) SPECTS stickers to affix to its nominated vehicles.

An enrolled operator must comply with the instructions that accompany the IAP Certificate of Enrolment.

(c) Refusal to grant enrolment
If Roads and Maritime is not satisfied that the applicant should be granted enrolment, Roads and Maritime will advise the applicant in writing that Roads and Maritime declines to grant enrolment, and will advise the applicant of the reasons for refusal.

Roads and Maritime may grant enrolment to an operator but decline to accept one or more vehicles nominated by the operator for use under the Scheme. Where Roads and Maritime declines to accept a vehicle nominated by an operator the operator will be advised in writing of the reasons for refusal.

The applicant may apply for an internal review of a decision to refuse enrolment or to refuse to accept a vehicle for use under the Scheme. The notice declining the application will advise the applicant of the manner in which an internal review may be requested.
An application for internal review must be made in writing within 28 days of the operator being informed of the decision or of being taken to have been informed of the decision. The written request for an internal review must set out the grounds on which the review is sought.

3.5 Obligations of enrolled operators

The enrolled operator is required to comply with all of its obligations set out in the SPECTS Business Rules as amended from time to time.

(a) Nominated vehicles

The enrolled operator is responsible for its nominated vehicles and must ensure that they comply with the SPECTS Business Rules, the SPECTS Notice and the HVNL.

(b) Other obligations

Other obligations of the enrolled operator include giving access to nominated vehicles on request by Roads and Maritime and co-operating with any inspections concerning compliance of the enrolled operator and nominated vehicles with the SPECTS Business Rules.

3.6 Cancellation of enrolment

Where during the currency of an operator’s enrolment Roads and Maritime forms the belief that the operator has engaged in serious or repeated failures to comply with any of the requirements of the SPECTS including compliance with these Business Rules or the operator has committed a serious breach or repeated breaches of the HVNL or National Regulations Roads and Maritime may issue the operator with a notice giving the operator 14 days to show cause why the operator’s enrolment in the Scheme should not be cancelled.

Where, having had regard to any matters put by the operator, Roads and Maritime is satisfied that the operator’s enrolment should be cancelled it may cancel the enrolment. Roads and Maritime must give the operator notice in writing that the enrolment has been cancelled and give reasons for the cancellation.

An operator whose enrolment has been cancelled may apply for an internal review of the decision to cancel the enrolment. The notice informing the operator of the cancellation of enrolment will advise the operator of the manner in which an internal review may be requested.

An application for internal review must be made in writing within 28 days of the operator being informed of the decision or of being taken to have been informed of the decision. The written request for an internal review must set out the grounds on which the review is sought.

3.7 Renewal of enrolment

The eligibility criteria and application procedures set out in the SPECTS Business Rules apply to a renewal of enrolment in the same way as for a new application.

At the time of renewal Roads and Maritime will take into account the compliance history of the enrolled operator to determine whether the applicant for renewal of enrolment is capable
of managing their operations to ensure continued compliance with the SPECTS Notice and the SPECTS Business Rules.

Factors which may be taken into account by Roads and Maritime to determine the application for renewal of enrolment include:

i) The use of nominated vehicles that do not meet the vehicle requirements set out in the SPECTS Business Rules;

ii) The provision of false information to the NHVR or Roads and Maritime in relation to an application for enrolment or renewal in the Scheme;

iii) Road safety breaches involving a nominated vehicle or the enrolled operator;

iv) The number of Intelligent Access Program (IAP) non-compliance reports generated in respect of an enrolled operator’s nominated vehicles;

v) The number of penalty notices issued to an enrolled operator or in respect of a nominated vehicle in respect of IAP or fatigue or mass or vehicle standards breaches;

vi) Conviction by a court in respect of an enrolled operator or in respect of a nominated vehicle for an IAP or fatigue or mass or vehicle standards breach;

vii) Failure to comply with a requirement of an Improvement Notice issued to an enrolled operator;

viii) The number of major defects issued in respect of an enrolled operator’s nominated vehicles;

ix) The number of major grounded defects issued in respect of an enrolled operator’s nominated vehicles.

If a decision is made not to renew the operator’s enrolment Roads and Maritime will advise the operator in writing and give reasons why it has declined to renew the enrolment.

The applicant may apply for an internal review of a decision to refuse re-enrolment. The notice declining the application will advise the applicant of the manner in which an internal review may be requested.

An application for internal review must be made in writing within 28 days of the operator being informed of the decision or of being taken to have been informed of the decision. The written request for an internal review must set out the grounds on which the review is sought.

3.8 Surrender of enrolment

An enrolled operator may at any time voluntarily surrender the enrolment of their nominated vehicles in SPECTS by giving notice to Roads and Maritime in writing. Any fee paid by the enrolled operator is not refundable.

4. Eligible vehicle requirements

An enrolled operator must ensure that all of the operator’s nominated vehicles comply at all times with the Scheme requirements and conditions.

4.1 PBS Approval
An eligible vehicle must be operated in accordance with the conditions contained in a relevant PBS Vehicle Approval.

(Note: section 153 of the HVNL requires a driver of a PBS vehicle to keep a copy of the PBS Vehicle Approval in their possession.)

4.2 Compliance with Scheme requirement

An eligible vehicle must operate in accordance with all of the requirements of SPECTS.

An eligible vehicle must clearly display any markings, stickers, plates or other identifying features required as a condition of enrolment under the Scheme. Details of what stickers to display and where the stickers are to be positioned will be provided if and when an IAP Certificate of Enrolment is issued to the operator.

4.3 Intelligent Access Conditions

The use of an eligible vehicle operating under SPECTS at PBS Level 1 and PBS Level 2 is subject to the following intelligent access conditions:

a) The heavy motor vehicle component of an eligible vehicle must be enrolled and monitored in the IAP with Roads and Maritime Services in accordance with Chapter 7 of the HVNL; and

b) A current IAP Certificate of Enrolment issued by Roads and Maritime Services must be carried in the vehicle which indicates the vehicle is monitored under the relevant IAP scheme/network in NSW.

(Note – An IAP Certificate of Enrolment is issued from Roads and Maritime Services when the vehicle is enrolled and monitored by the IAP in NSW.)

c) The operator (or person acting on behalf of the operator, including the driver) of an eligible vehicle must meet the mass declaration requirements under the IAP by declaring:

i) The vehicle configuration; and

ii) The number of axles in the configuration; and

iii) The total mass of the vehicle or combination including the mass of the heavy motor vehicle component of the eligible vehicle, and any attached trailers plus any load on-board the vehicle or combination.

The information contained in clause c) i) – iii) must be declared at each of the following times:

a) At the start of the journey; and

b) Whenever there is change in vehicle configuration; and

c) Whenever there is a change in the total mass of the vehicle or combination including the mass of the heavy motor vehicle component of the eligible vehicle and any attached trailers plus any load onboard the vehicle or combination; and

d) Whenever prompted by the Self Declaration Input Device (SDID), if a SDID is available in the vehicle.

Mass declaration requirements under the IAP must be made using one of the following methods:

a) Through the SDID in the vehicle that is certified by Transport Certification Australia (TCA) and linked to the IAP service provider; or
b) Through an alternative method approved and certified by TCA.

Enrolment under the IAP is not transferable.

4.4 On-Board Mass Management Conditions

The use of an eligible vehicle operating under the SPECT Scheme at PBS Level 1 and PBS Level 2 is subject to the following conditions:

a) An eligible vehicle must have an On-Board Mass (OBM) system that has been approved by Transport Certification Australia (TCA) and that meets the requirements of the Interim OBM Mass Monitoring Business, Operational and Technical Requirements issued by TCA.

b) When an OBM system type approved by TCA becomes available for use in the IAP, all eligible vehicles operating under the Notice will be required to transition to an OBM system that is type approved by TCA for use in the IAP, at a timeframe specified by Roads and Maritime.

“OBM system that is type-approved by TCA” means On-Board Mass scales or weighing devices or load cell systems capable of accurately measuring vehicle axle and gross weights that are type-approved by Transport Certification Australia.

c) The OBM system must be maintained, operable and calibrated at least once every six months, commencing with calibration prior to the commencement of its use under the Notice.

d) The operator must provide OBM system calibration reports for each vehicle to their IAP Service Provider within five days of a calibration being completed. The IAP Service Provider will provide calibration reports to Roads and Maritime.

e) Roads and Maritime must be provided with reports from the OBM measuring systems in the format and timeframes agreed.

4.5 Stability Control

Each nominated vehicle (heavy motor vehicles and trailers) manufactured on or after 1 January 2017 must be fitted with a vehicle stability function which meets the performance requirements of Regulation 13*.

For the purposes of SPECTS “vehicle stability function” means an electronic control function for a vehicle which improves the dynamic stability of the vehicle and includes both of the following:

a) directional control; and

b) roll-over control.

Where:

directional control means a function within a vehicle stability function that assists the driver, in the event of under steer and over steer conditions, within the physical limits of the vehicle in maintaining the direction intended by the driver in the case of a power-driven vehicle, and assists in maintaining the direction of the trailer with that of the towing vehicle in the case of a trailer; and

roll-over control means a function within a vehicle stability function that reacts to an impending roll-over in order to stabilise the power-driven vehicle or towing vehicle
and trailer combination or the trailer during dynamic manoeuvres within the physical limits of the vehicle.

The vehicle stability function must include in the towing vehicle a warning light that complies with the relevant requirements of ADR35/04 and is visible to the driver in a normal driving position; and indicates that the vehicle stability function is operating correctly.

In respect of a combination comprising a towing vehicle and a trailer the vehicle stability function must include a connector that complies with the relevant Part (Part 1 for 24V nominal supply voltage or Part 2 for 12V nominal supply voltage) of International Standard ISO 7638 of 2003.

[*Regulation 13 is Addendum 12 to the 1958 Agreement Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions – Revision 8 published on 3 March 2014, reference E/ECE/324/Rev.1/Add.12/Rev.8–E/ECE/TRANS/505/Rev.1/Add.12/Rev.8*]

4.6 Contour marking

Each nominated vehicle unit shall have full contour marking which uses conspicuity marking that complies with UN ECE Regulation 104*.

For the purposes of the SPECT Scheme:

- **contour marking** means conspicuity marking intended to indicate the horizontal and vertical dimensions (length, width and height) of a vehicle;
- **full contour** marking means contour marking that indicates the outline of the vehicle by a continuous line; and
- **conspicuity marking** means a device intended to increase the conspicuity of a vehicle, when viewed from the side or rear (or in the case of trailers, additionally from the front), by the reflection of light emanating from a light source not connected to the vehicle, the observer being situated near the source.

[*Regulation 104 is Addendum 103 to the 1958 Agreement Concerning the Adoption of Uniform Technical Prescriptions for Wheeled Vehicles, Equipment and Parts which can be Fitted and/or be Used on Wheeled Vehicles and the Conditions for Reciprocal Recognition of Approvals Granted on the Basis of these Prescriptions – Revision 2 published on 25 March 2010, reference E/ECE/324/Rev.2/Add.103/Rev.1–E/ECE/TRANS/505/Rev.2/Add.103/Rev.1*]

(Note: the Australian Trucking Association has published an Industry Technical Council Advisory Procedure Australian Heavy Vehicle Visibility Code of Practice dated October 2003 which identifies styles of contour marking. The full contour marking displayed at pages 8, 9 and 11 of the Code of Practice provide a guide to the conspicuity marking required under the Notice. Vehicles are not required to have retro-reflective graphics.)

4.7 Visibility/detection of vulnerable road users

Eligible heavy motor vehicles must be equipped with a system whether comprising mirrors, cameras, refracting lenses, sensors, additional windows, any combination of these or any other means that provides a field of view to the front and on the left hand side of the vehicle or, if using cameras, sensors or other means of detection, provides coverage equivalent to that field of view as set out in Regulation 46* for a close proximity exterior mirror (Class V) and a front mirror (Class VI).
4.8 Reversing lamps

Eligible trailers must be fitted with reversing lamps that comply with the requirements of ADR 13/00* as if compliance with ADR 13/00 was mandatory for trailers.

[*ADR 13/00 is Vehicle Standard (Australian Design Rule 13/00 – Installation of Lighting and Light Signalling Devices on other than L-Group Vehicles) 2005, Compilation 5 with a compilation date of 30 June 2015]

4.9 Self-adjusting reversing alarm

Each nominated vehicle unit (heavy motor vehicles and trailers) must be fitted with a self-adjusting repeater reversing alarm which automatically adjusts its output to the surrounding noise level and is capable of emitting a sound that is audible to a person behind the vehicle and within 20 metres of it.

4.10 Engine emissions standard

Eligible heavy motor vehicles must be equipped with an engine that complies with or exceeds the emissions standards set out in Vehicle Standard (Australian Design Rule 80/03 – Emission Controls for Heavy Vehicles) 2006 as amended.

(Note: the purpose of paragraph 4.10 is to require that heavy motor vehicles enrolled in the Scheme meet, at a minimum, the Euro 5 emission standards.)

5. Other requirements

5.1 Documents to be carried

An enrolled operator must ensure that the driver of an enrolled vehicle carries in the driving compartment of the vehicle and has available for immediate production on request by an Authorised Officer or Police Officer:

i) a document that identifies which construction material or construction materials as set out in paragraph 2.5 of these Business Rules is/are being carried and which accurately identifies the place at which the driver’s current journey commenced and the intended destination; and

ii) a copy of the PBS Vehicle Approval in respect of the vehicle; and

iii) a copy of the IAP Certificate of Enrolment in SPECTS
5.2 Roadworthiness/vehicle maintenance

An enrolled operator must have in place arrangements that are reasonably capable of ensuring that each nominated vehicle meets all of the heavy vehicle standards applicable to the vehicle and that no vehicle is operated on a road when the vehicle is in an unsafe condition.

5.3 Audit and inspection

An enrolled operator may be subject to audit or inspection conducted by Roads and Maritime.

An enrolled operator must comply with all requests made by Roads and Maritime for the purposes of conducting an audit of the operator’s compliance with all of the requirements of SPECTS and/or inspecting a nominated vehicle for the purposes of determining compliance with the Scheme.

6. Roads and Maritime Contacts

Safety, Productivity & Environment Construction Transport Scheme
Roads and Maritime Services
Vehicle Telematics Operations
110 George Street Parramatta NSW 2150
PO Box 3035
Parramatta
NSW 2124

Telephone: 1300 134 847
Email: iap@rms.nsw.gov.au
<table>
<thead>
<tr>
<th>Material</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bitumen</td>
<td>Resinous or tar-like substance used for road construction and for roofing</td>
</tr>
<tr>
<td>Bricks and masonry</td>
<td>Includes fired clay blocks; stone blocks; glass blocks; and concrete blocks (often but not always bound with mortar) for construction, also includes clay, glass, concrete and terra cotta tiles</td>
</tr>
<tr>
<td>Cement and concrete</td>
<td>Cement powder; concrete in wet mix form; crushed concrete; and pre-cast concrete products used for construction (such as noise walls), drainage and landscaping</td>
</tr>
<tr>
<td>Fly ash and slag</td>
<td>Fly ash is a cementitious material used in the production of concrete and mortar</td>
</tr>
<tr>
<td></td>
<td>Slag is a by-product from steel production used in concrete production</td>
</tr>
<tr>
<td>Glass</td>
<td>Includes glass used for internal and external glazing, as a structural item (eg curtain walls) and for decorative purposes. Does not include non-fixed items made from or including glass such as shelves, table tops and household products</td>
</tr>
<tr>
<td>Plasterboard</td>
<td>Solid sheets of gypsum between sheets of paper used for walling, includes buckets, tape and other fixings for the installation of plasterboard</td>
</tr>
<tr>
<td>Quarry products (including aggregates and sand)</td>
<td>Aggregates (crushed rocks) and sand (including manufactured sand) for example, as used in concrete production and as a road base</td>
</tr>
<tr>
<td>Spoil and demolition waste</td>
<td>Spoil is dirt and rock excavated from a construction site</td>
</tr>
<tr>
<td></td>
<td>Demolition waste is waste material from the demolition of an existing structure including:</td>
</tr>
<tr>
<td></td>
<td>• Concrete;</td>
</tr>
<tr>
<td></td>
<td>• Bricks;</td>
</tr>
<tr>
<td></td>
<td>• Insulation materials;</td>
</tr>
<tr>
<td></td>
<td>• Electrical wiring and conduit;</td>
</tr>
<tr>
<td></td>
<td>• Plumbing;</td>
</tr>
<tr>
<td></td>
<td>• Reinforcing rods or mesh and other metals;</td>
</tr>
<tr>
<td></td>
<td>• Glass; and</td>
</tr>
<tr>
<td></td>
<td>• Wood</td>
</tr>
<tr>
<td></td>
<td>Does not include hazardous waste such as contaminated soil or material removed from a structure prior to its demolition</td>
</tr>
<tr>
<td>Steel</td>
<td>An alloy of iron and carbon commonly used in construction as structural beams, roofing and concrete reinforcement. May be in the form of rods, sheets, coils or mesh and also includes fabricated items such as stairways, doors and window frames</td>
</tr>
<tr>
<td>Timber</td>
<td>Milled or dressed timber intended for use in construction including as a structural item, for internal or external flooring or cladding, also includes plywood and particleboard</td>
</tr>
</tbody>
</table>
Figure 1: Field of view for Class V and Class VI mirrors

Driver’s ocular points

Ground level

1m 1.75m

R2000

Ground level