



## Norwegian Public Roads Administration

Snoline s.p.a.  
Via F. Baracca 19/23  
20056 Trezzo s/Adda (MI)

ITALY

Executive unit:  
Directorate of Public Roads

Contact person/direct line:  
Egil Haukås - 22073869

Our reference:  
2007/028430-011

Your reference:

Our date:  
04.06.2007

### Approval for Snoline TAU crash cushion class 50, 80 and 100 (km/t)

In letter of February 23, Snoline s.p.a. applied for approval of TAU crash cushion for velocity class 50, in order to complete the group of models from class 50 km/h to class 100 km/h.

TAU crash cushion system consists of three models, Parallel, Large and XLarge with widths varying from 0.9 to 3.1 meter. Each model is tested in three velocity classes 50, 80 and 100 km/h as a system type tested crash cushion, according to NS-EN 1317-3, table 6.

The tests are performed by L.I.E.R. (Laboratoire d'essais Inrets Equipements de la Route), Lyon, Frankrike og STI (Safety Technologies, Inc.), USA.

We have received the following test reports (incl. videos):

| Velocity class (km/h) | Test       | Report                | Date       | Model |
|-----------------------|------------|-----------------------|------------|-------|
| 100                   | TC 1.1.100 | (SNO/TAU-03/546)      | 2001-12-21 | P     |
|                       | TC 1.2.100 | (SOD/ACS-03/037)      | 1999-03-10 |       |
|                       | TC 2.1.100 | (SOD/ACS-04/056)      | 1995-04-04 |       |
|                       | TC 3.2.100 | (SOD/ACS-05/057)      | 1995-04-10 |       |
|                       | TC 4.2.100 | (SNO/TAU-02/459)      | 2001-04-24 |       |
|                       | TC 5.2.100 | (SOD/ACS-07/072)      | 1995-06-29 |       |
|                       | TC 1.1.100 | (STI report # TXL 03) | 2002-10-10 | XL    |
|                       | TC 4.2.100 | (STI report # TXL 02) | 2002-10-10 |       |
| 80                    | TC 1.2.80  | (SNO/TAU-06/754)      | 2004-04-23 | P     |
|                       | TC 4.2.80  | (SOD/ACS-06/071)      | 1995-06-26 | L     |
|                       | TC 4.2.80  | (SNO/TAU-18/992)      | 2006-04-05 | XL    |
| 50                    | TC 1.1.50  | (SNO/TAU-09/865)      | 2005-01-17 | P     |
|                       | TC 4.2.50  | (SNO/TAU-11/867)      | 2005-01-18 | XL    |

We have also received TAU Installation & maintenance manual

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With reference to the test reports, TAU fulfils the requirements for re-directive crash cushion according to NS-EN 1317-3.

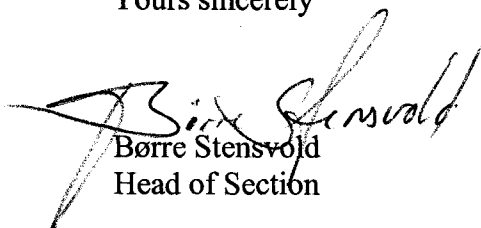
Norwegian Public Roads Administration approve Snoline TAU redirective crash cushion system, consisting of the models: Parallel, Large and XLarge, in three velocity classes 50, 80 and 100 (km/t), for use on the national road network.

The crash cushions meet the requirements of impact severity class B, redirection zone Z2 and lateral displacement D1, cf. NS-EN 1317-3.

The product shall be manufactured and installed as tested, and according to the installation- and maintenance manual.

The approval is valid until the Notified Body for safety barrier is established for Norway, and is for the time being limited for use within Norwegian Public Roads Administration.

Bridge Section  
Yours sincerely



Børre Stensvold  
Head of Section



Egil Haukås