SRI LANKA STANDARD 1019: 1994

UDC 675.03

# GUIDELINES FOR GRADING OF WET SALTED RAW HIDES AND SKINS

**SRI LANKA STANDARDS INSTITUTION** 



# SRI LANKA STANDARD GUIDELINES FOR GRADING OF WET SALTED RAW HIDES AND SKINS

SLS 1019 : 1994

**Gr.** 5

Copyright Reserved
SRE LANKA STANDARDS INSTITUTION
53, Dharmapala Mawatha
Colombo 3
Sri Lanka

Sri Lanka Standards are subject to periodical revision in order to accommodate the progress made by industry. Suggestions for improvement will be recorded and brought to the notice of the Committees to which the revisions are entrusted.

This standard does not purport to include all the necessary provisions of a contract.

SLS 1019 : 1994

## Sri Lanka Standard GUIDELINES FOR GRADING OF WET SALTED RAW HIDES AND SKINS

#### FOREWORD

This standard was approved by the Sectoral Committee on Textiles, Clothing and Leather and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 1994-11-24.

The quality of raw hides and skins may differ considerably due to various influencing factors such as breed, feeding, living conditions, sex, age and health of the animals, substance (thickness of the hide or skin), appearance of hair, grain defects, flaying, curing, storage and transportation of hides and skins. The selection is generally based on the area, mass, substance, surface defects on grain and flesh sides and general appearance of the hide or skin. It is well recognized that no single test method is capable of evaluating hides and skins and the most accepted method of grading is to examine visually and by physical handling.

This standard has been prepared to provide a prompt and an easy method of assessing the quality of raw hides and skins.

In the preparation of this standard, the valuable assistance derived from the following publications is gratefully acknowledged:

IS 9159: 1979 Guidelines for grading of raw hides and skins. IS 12435: 1988 Guidelines for grading of hides and skins on the

basis of mass and size.

#### 1 SCOPE

This standard prescribes guidelines for assessment of wet salted raw cattle hides and goat, sheep and calf skins by visual evaluation.

## 2 REFERENCES

SLS 1013:1994 Code of practice for curing and preservation of hides and skins.

SLS 1015:1994 Glossary of terms for leather. SLS 1020:1994 Method of trimming of raw hides

## 3 DEFINITIONS

For the purpose of this guideline, the definitions given in SLS 1015:1994 and the following definitions shall apply:

- 3.1 badly shaped: Shape not conforming to the standard configuration of hide or skin.
- 3.2 croupon: Area of a hide or skin excluding head, belly and shoulders.
- 3.3 hair slip: Slipping or loosening of the hair in hides or skins due to putrefaction.
- 3.4 mange mite: A parasite causing skin disease occurring in animals.
- 3.5 offal: The less valuable parts of a hide or skin such as head, shoulders and belly.
- 3.6 red heat: Red or pink coloured spots or patches which appear on the flesh side of salted raw hides and skins.
- 3.7 warble: Blemish caused by larvae of <u>Hypoderma</u> <u>bovis</u>, <u>Hypoderma</u> <u>lineatum</u> and <u>Hypoderma</u> <u>crossi</u>.

#### 4 GRADING

4.1 Cow and buffalo hides and calf skins hides skins, cured and preserved as given in SLS 1013:1994 (see Note) in one lot shall be first classified according to mass given in Table 1.

The mass of cow and buffalo hides and calf skins shall be determined as given in 5.1.

#### NOTE

Cured and preserved hides and skins should have a moisture content in the range 40 to 50 per cent by mass.

4.2 Sheep and goat skins, cured and preserved as given in SLS 1013:1994 (see Note given under 4.1), in one lot shall be first classified according to length of backbone line (see Figure 1) given in Table 2.

The length of backbone line shall be determined as given in 5.2.

4.3 The hides and skins classified as in 4.1 and 4.2 shall be graded as given in Appendices A,B, or C as appropriate.

TABLE 1 - Classification of cow and buffalo hides and calf skins on the basis of mass

S1 No.	Classification	Mass of wet salted hide/skin , kg	
i i ii	Cow calf skins Cow hides	1.5 to 5.0	
1	a) light	above 5.0 to 8.0	i
1	b) medium c) heavy	above 8.0 to 12.0 above 12.0	1
iii iv	Buffalo calf skins Buffalo hide	2.0 to 8.0	
;	a) light	above 8.0 to 12.0	į
! ! !	b) medium c) heavy	above 12.0 to 16.0 above 16.0	1

TABLE 2 - Classification of goat and sheep skins on the basis of length of backbone line

S1 No.	Classification	Length of backbone line, mm
i	Kid	up to 300
ii	Small	above 300 to 450
iii	! Medium	above 450 to 600
iv	Large	above 600 to 800
v	Extra large	above 800

# 5 METHODS OF TEST

## 5.1 Determination of the mass of hides and skins

Open each hide or skin of the lot and shake vigorously knocking the flesh side down against a hard surface. The remaining salt is removed by brushing. The hides and skins are then weighed individually.

# 5.2 Determination of the length of goat and sheep skins

Fold the skin lengthwise and lay flat. Measure the length along the backbone from the root of the tail to the point where the skin of the front part of throat is the widest when determined at right angles to the fold (see Figure 1).

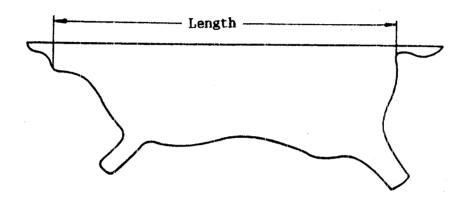


FIGURE 1 - Measurement of length of backbone line of goat and sheep skins

SLS 1019 : 1994

# APPENDIX A GRADING OF CATTLE HIDES

Grade	Characteristic
1	Well shaped and trimmed as given in SLS 1020 hides from young or middle aged animals with no rib marks; having good substance; free from deep cuts, holes, various grain damages caused by parasitic, viral and helminthics, brand marks, bacterial damage, adhering flesh, fat and extraneous matter; having not more than 2 open and 4 blind warbles; and having minor defects in offal (not in croupon) compared to Grade 2.
2	Well trimmed hides as given in SLS 1020 of normal substance; having not more than 2 small flaying holes in the butt or not more than 4 holes in the hide (small holes in areas less than 80 mm from the edge and deep flay cuts not in the butt need not be counted); having not more than 6 visible warble holes, not more than 4 open and 8 blind warbles and showing slight hair slip but no putrefactive damage.
3	Well trimmed as given in SLS 1020 hides having normal substance; having not more than 4 small flay holes in the butt or not more than 8 holes in the hide (small holes in area less than 80 mm from the edge and deep flay cuts not in the butt need not be counted); having slight grain damage caused by various agents; having not more than 12 visible warbles holes, or not more than 8 open and 16 blind warbles; and showing slight hair slip but no putrefactive damage.
4	Hides not suitable for any good type of leather (rejection quality) . Further divided into Grades 4-A, 4-B, and 4-C.
4-A	Rejection quality, no brand marks other than the brand specified in the regulations issued under the Animals Act and no major grain damage.
4-В	Rejection quality, brand marks only on one side; no serious grain damage; red heat developed on the flesh side and badly shaped.
4-C	Rejection quality, brand marks on both sides; more grain damage than in Grade 4-B; red heat developed on the flesh surface and badly shaped.

# APPENDIX B GRADING OF COW AND BUFFALO CALF SKINS

Grade	Characteristic
1	Well shaped and trimmed as given in SLS 1020 (head and feet trimmed); skins of good substance; having no flay cuts or holes (except 1 small hole or a few flay cuts in the belly area); and free from surface defects caused by parasitic, viral and bacterial diseases, brand marks, putrefaction etc.
2	Well shaped and trimmed as given in SLS 1020 (head and feet trimmed); skins of normal substance; having not more than 1 flay hole in the butt or up to 3 holes in the entire skin (small holes in the offal less than 40 mm from the edges need not be counted); having a few deep cuts; not more than 3 open and 5 blind warbles and showing slight hair slip but no putrefaction.
3	Well trimmed as given in SLS 1020 (head and feet trimmed) skins of normal substance; having not more than 2 flay holes in the butt or up to 6 holes in the entire skin (small holes in the offal less than 40 mm from the edges need not be counted); having a few deep flay cuts; not more than 6 open and 10 blind warbles; showing hair slip but no putrefaction; red heat developed on the flesh side and badly shaped.
4	Skins not suitable for any good type of leather (rejection quality) .

# APPENDIX C GRADING OF GOAT AND SHEEP SKINS

Grade	Characteristic
1	Well shaped and trimmed as given in SLS 1020 (head and feet trimmed); skins of good substance; with not deep flay cuts or holes (except 1 small hole or a few cuts in the belly area); and free from surface defects caused by mange mites, pock marks, brand marks bacterial damage etc.
2	Well shaped and trimmed as given in SLS 1020 (head and feet trimmed); skins of normal substance; having not more than 2 small holes or a few flay cuts in the belly area; and having not more than 6 lesions or small scales caused by skin diseases, brand marks etc. (not in belly area).
3	Well trimmed as given in SLS 1020 (head and feet trimmed) skins of normal substance; having not more than 4 small holes or a few flay cuts in the belly area; having not more than 12 lesions or small scales caused by skin diseases; brand marks etc. (not in belly area); and showing hair slip but no putrefaction.
4	Skins not suitable for any good type of leather.



# SLS CERTIFICATION MARK

The Sri Lanka Standards Institution is the owner of the registered certification mark shown below. Beneath the mark, the number of the Sri Lanka Standard relevant to the product is indicated. This mark may be used only by those who have obtained permits under the SLS certification marks scheme. The presence of this mark on or in relation to a product conveys the assurance that they have been produced to comply with the requirements of the relevant Sri Lanka Standard under a well designed system of quality control inspection and testing operated by the manufacturer and supervised by the SLSI which includes surveillance inspection of the factory, testing of both factory and market samples.

Further particulars of the terms and conditions of the permit may be obtained from the Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.



### SRI LANKA STANDARDS INSTITUTION

The Sri Lanka Standards Institution (SLSI) is the National Standards Organization of Sri Lanka established under the Sri Lanka Standards Institution Act No. 6 of 1984 which repealed and replaced the Bureau of Ceylon Standards Act No. 38 of 1964. The Institution functions under the Ministry of Science & Technology.

The principal objects of the Institution as set out in the Act are to prepare standards and promote their adoption, to provide facilities for examination and testing of products, to operate a Certification Marks Scheme, to certify the quality of products meant for local consumption or exports and to promote standardization and quality control by educational, consultancy and research activity.

The Institution is financed by Government grants, and by the income from the sale of its publications and other services offered for Industry and Business Sector. Financial and administrative control is vested in a Council appointed in accordance with the provisions of the Act.

The development and formulation of National Standards is carried out by Technical Experts and representatives of other interest groups, assisted by the permanent officers of the Institution. These Technical Committees are appointed under the purview of the Sectoral Committees which in turn are appointed by the Council. The Sectoral Committees give the final Technical approval for the Draft National Standards prior to the approval by the Council of the SLSI.

All members of the Technical and Sectoral Committees render their services in an honorary capacity. In this process the Institution endeavours to ensure adequate representation of all view points.

In the International field the Institution represents Sri Lanka in the International Organization for Standardization (ISO), and participates in such fields of standardization as are of special interest to Sri Lanka.

Printed at the Sri Lanka Standards Institution, 17, Victoria Place, Elvitigala Mawatha, Colombo 08.