

DIN ISO 8082-1:2023-03 (E)

Self-propelled machinery for forestry - Laboratory tests and performance requirements for roll-over protective structures - Part 1: General machines (ISO 8082-1:2009 + Amd 1:2021)

Contents	Page
National foreword	4
National Annex NA (informative) Bibliography	5
A1 Foreword to Amendment A1 A1	6
1 Scope	7
2 Normative references	7
3 Terms, definitions and symbols	7
4 Static laboratory tests	9
4.1 Facilities	9
4.2 Instruments	9
4.3 Apparatus	10
4.3.1 General	10
4.3.2 Vertical loading	10
4.4 Test procedures	11
4.4.1 General	11
4.4.2 Lateral loading.....	11
4.4.3 Vertical loading	14
4.4.4 Longitudinal loading	15
5 Performance requirements	17
5.1 General	17
5.2 Force, energy and load requirements.....	17
5.3 Temperature and material requirements.....	18
5.3.1 General	18
5.3.2 Bolts and nuts	18
5.3.3 Impact strength	18
6 Reporting results	19
7 A1 Labelling of ROPS A1	19
7.1 A1 General A1	19
7.2 A1 Label specifications A1	19
7.3 A1 Label content A1	19
Annex A (normative) Test report for ISO 8082-1	21
Bibliography	23
Figures	
Figure 1 — Determination of lateral simulated ground plane (LSGP).....	9
Figure 2 — Machine attachment to bedplate.....	11
Figure 3 — Load-distribution device for ROPS with four-post system	12

Figure 4 — Load-distribution device for ROPS with two-post system	13
Figure 5 — Force-deflection curve for lateral loading	14
Figure 6 — Vertical load distribution and loading.....	15
Figure 7 — Longitudinal loading.....	16

Tables

Table 1 — Symbols.....	8
Table 2 — Instrument accuracy requirements	10
Table 3 — Minimum force attained during lateral loading	17
Table 4 — Minimum energy absorbed during lateral loading.....	17
Table 5 — Minimum force attained during longitudinal loading	18
Table 6 — Minimum Charpy V-notch impact strength	19