DIN EN 1065:1998-12 (E)

Adjustable telescopic steel props - Product specifications, design and assessment by calculation and tests

Contents

Page

EN 1065:1998 Contents Foreword 3

Introduction 3

1 Scope 3

2 Normative references 4

3 Definitions and symbols 6

4 Classification 8

5 Designation 9

6 Materials 9
6.1 General 9
6.2 Modification by cold working 9
6.3 Corrosion protection 10

7 Configuration 10
7.1 Tubes 10
7.2 Welding 11
7.3 Length adjustment device 12
7.4 Permanent prevention against unintentional disengagement 13
7.5 Endplates 13
7.6 Props with fixed forkheads 13
7.7 Anti hand trap 15
7.8 Minimum extended length 15
7.9 Overlapping length 16
7.10 Data required from the manufacturer 16

8 Nominal characteristic strength 16

9 Verification 16
9.1 General 16
9.2 Verification of the actual characteristic strength by calculation 17
9.3 Verification of the actual characteristic strength by testing 20
9.4 Verification of the strength of adjustment device 21
9.5 Verification of the prevention against unintentional disengagement 21

10 Test methods 21
10.1 General 21
10.2 Test method for the prop strength 22
10.3 Test of a pin and its supports 25
10.4 Test of the prevention against unintentional disengagement 26

11 Test report 26

12 Marking 27

Annex A (normative) Equations for the calculation of the structural properties of tubes 28

Annex B (normative) Calculation of resistance for pin connections 30

Annex C (normative) Statistical evaluation of data 31

Annex D (informative) Prototype assessment 32

Annex E (informative) Ongoing production inspection 33