

ISO 22389-2:2020-04 (E)

Timber structures - Bending applications of I-beams - Part 2: Component performance and manufacturing requirements

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Component requirements	2
4.1	Flange stock	2
4.2	Web material	2
4.3	Adhesives	2
5	Manufacturing requirements	2
5.1	General	2
5.2	Dimensional tolerances	2
6	In-house quality assurance	3
6.1	Manufacturing standard	3
6.1.1	General	3
6.1.2	Inspection personnel	3
6.1.3	Record keeping	3
6.1.4	Testing equipment	3
6.2	I-beam quality control testing	4
6.2.1	Objectives	4
6.2.2	Initial quality control	4
6.2.3	Required tests	4
6.2.4	Data collection and analysis	4
7	Qualification and quality assurance of I-beam components manufactured by others	5
7.1	Producer's responsibility	5
7.2	Record keeping	5
7.3	Identification	5
8	Periodic re-evaluation of structural capacities	5
8.1	Re-evaluation required	5
8.1.1	General	5
8.1.2	Reaction capacity re-evaluation	5
8.1.3	Regraded sawn timber flanges	5
8.2	Minimum database in periodic evaluation	5
8.2.1	Shear and flange material tests	5
8.2.2	Empirical moment capacity tests	6
8.3	Data analysis	6
8.3.1	Data requirements	6
8.3.2	Flange strength distributions	6
9	Identification	6
	Bibliography	7