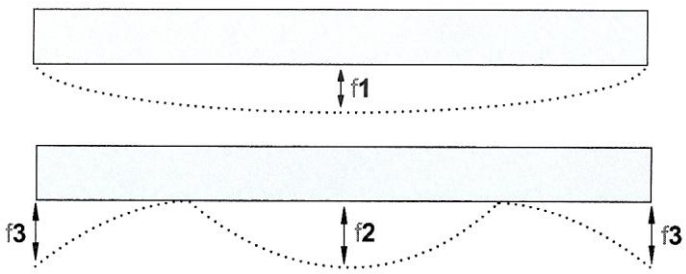


The deflection data is statistically calculated and only approximate for the two shown ways

f1: Worst Support, highest deflection
f2 & F3: Best Support: Used when the deviation of flatness of the Straight Edge is measured to DIN 874 and VDI/VDE/DGQ 2618
Position of the Support Points / Airie Points:
From each end = 0.22 x length of straight edge

Steel Straight Edges: DiN 874/2: General Workshop Grade

Deviation of flatness to DiN 874/2 & VDI/VDE/DGQ 2618
Marked with supporting points on side face
Working surfaces and side faces are fine ground
All straight edges individually marked with serial number

Packed Weight and Dimensions

Code	Length mm	Height mm	Thickness mm	Tol. µm	Weight g	W mm	H mm	L mm
59-010-050	500	30	6	21	1000	80	80	890
59-010-075	750	40	8	27	2165	80	80	890
59-010-100	1000	40	8	33	5000	130	90	1120
59-010-150*	1500	50	10	46	10000	130	90	1630
59-010-200*	2000	60	12	58	16600	130	90	2120

Deflection Data

Code	Deflection f1	Deflection f2	Deflection f3
59-010-050	4	0	0
59-010-075	12	0	0
59-010-100	37	1	0
59-010-150*	118	3	2
59-010-200*	259	7	3

Steel Straight Edges: DiN 874/1: Inspection Grade

Deviation of flatness to DiN 874/1 & VDI/VDE/DGQ 2618 Marked with supporting points on side face Working surfaces and side faces are fine ground All straight edges individually marked with serial number	

Packed Weight and Dimensions

Code	Length mm	Height mm	Thickness mm	Tol. µm	Weight g	W mm	H mm	L mm
59-000-050	500	40	8	12	1550	80	80	890
59-000-075	750	50	10	17	3200	80	80	890
59-000-100	1000	50	10	21	6500	130	90	1120
59-000-150*	1500	60	12	29	12400	130	90	1630
59-000-200*	2000	70	15	37	17600	130	90	2120

Deflection Data

Code	Deflection f1	Deflection f2	Deflection f3
59-000-050	2	0	0
59-000-075	7	0	0
59-000-100	23	1	0
59-000-150*	82	2	1
59-000-200*	146	4	2

Steel Straight Edges: DiN 874/0: Calibration Grade

Deviation of flatness to DiN 874/0 & VDI/VDE/DGQ 2618 Marked with supporting points on side face Working surfaces and side faces are fine ground All straight edges individually marked with serial number	

Packed Weight and Dimensions

Code	Length mm	Height mm	Thickness mm	Tol. µm	Weight g	W mm	H mm	L mm
59-005-050	500	50	10	7	1550	80	80	890
59-005-075	750	50	10	9.5	3200	80	80	890
59-005-100	1000	60	12	12	5780	130	70	820

Deflection Data

Code	Deflection f1	Deflection f2	Deflection f3
59-005-050	2	0	0
59-005-075	7	0	0
59-005-100	16	0	0

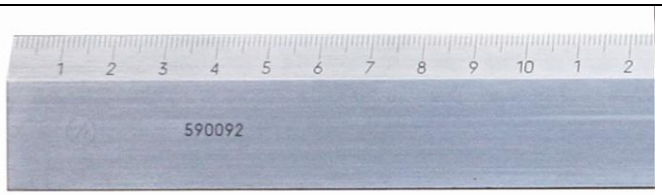
Bevelled Straight Edges: DiN 874/2

Testing edge tolerance according to DiN 874/2 All faces fine ground	

Packed Weight and Dimensions

Code	Length mm	Height mm	Thickness mm	Tol. µm	Weight g	W mm	H mm	L mm
59-015-050	500	30	6	12	915	80	80	890
59-015-100	1000	40	8	21	2295	120	80	1080

Graduated Bevelled Straight Edges: DiN 866/B

Graduation tolerance according to DiN 866/B Bevelled edge marked in millimetres Protective 10mm unmarked final end All faces fine ground	

Packed Weight and Dimensions

Code	Length mm	Height mm	Thickness mm	Tol. µm	Weight g	W mm	H mm	L mm
59-016-050	500	30	6	12	915	80	80	890
59-016-100	1000	40	8	21	2295	120	80	1080

Straight Edges

Calibration

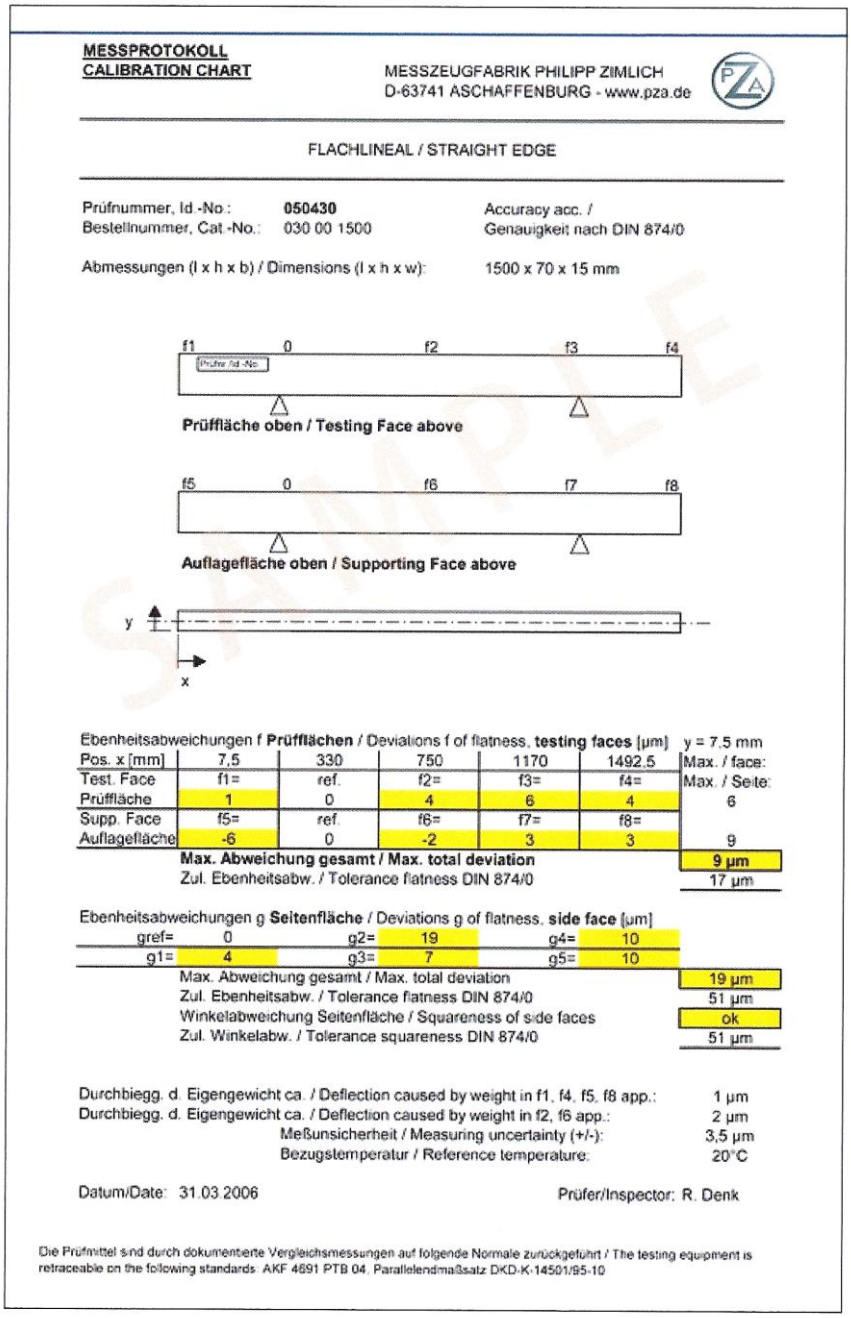
According to the requirements of EN 29 000 ff. (DIN EN ISO 9000 ff.)
All PZA products pass a completely recorded 100% final inspection
PZA's quality assurance system complies with DIN EN ISO 9002

The Inspection and Measuring equipment is regularly inspected and adjusted, having a known valid relationship to the recognised standards of the PTB (Physikalisch-Technische Bundesanstalt)

Calibration

Straight Edges can be supplied with a Calibration Certificate traceable to the German National Standards of the PTB/DKD
This Calibration Certificate is available at an additional cost. For further details please call our sales office

Sample Calibration Certificate



MESSPROTOKOLL
CALIBRATION CHART

MESSZEUGFABRIK PHILIPP ZIMLICH
D-63741 ASCHAFFENBURG - www.pza.de

FLACHLINEAL / STRAIGHT EDGE

Prüfnummer, Id.-No.: **050430**
Bestellnummer, Cat.-No.: 030 00 1500

Accuracy acc. /
Genauigkeit nach DIN 874/0

Abmessungen (l x h x b) / Dimensions (l x h x w): 1500 x 70 x 15 mm

f1 0 f2 f3 f4

Prüffläche oben / Testing Face above

f5 0 f6 f7 f8

Auflagefläche oben / Supporting Face above

y
x

Ebenheitsabweichungen f **Prüfflächen** / Deviations f of flatness, **testing faces** [µm] y = 7.5 mm

Pos. x [mm]	7,5	330	750	1170	1492.5	Max. / face:
Test. Face	f1=	ref.	f2=	f3=	f4=	Max. / Seite:
Prüffläche	1	0	4	6	4	6
Supp. Face	f5=	ref.	f6=	f7=	f8=	
Auflagefläche	-6	0	-2	3	3	9

Max. Abweichung gesamt / Max. total deviation 9 µm
Zul. Ebenheitsabw. / Tolerance flatness DIN 874/0 17 µm

Ebenheitsabweichungen g **Seitenfläche** / Deviations g of flatness, **side face** [µm]

gref=	0	g2=	19	g4=	10
g1=	4	g3=	7	g5=	10

Max. Abweichung gesamt / Max. total deviation 19 µm
Zul. Ebenheitsabw. / Tolerance flatness DIN 874/0 51 µm
Winkelabweichung Seitenfläche / Squareness of side faces ok
Zul. Winkelabw. / Tolerance squareness DIN 874/0 51 µm

Durchbiegg. d. Eigengewicht ca. / Deflection caused by weight in f1, f4, f5, f8 app.: 1 µm
Durchbiegg. d. Eigengewicht ca. / Deflection caused by weight in f2, f6 app.: 2 µm
Meßunsicherheit / Measuring uncertainty (+/-): 3,5 µm
Bezugstemperatur / Reference temperature: 20°C

Datum/Date: 31.03.2006 Prüfer/Inspector: R. Denk

Die Prüfmittel sind durch dokumentierte Vergleichsmessungen auf folgende Normale zurückgeführt / The testing equipment is retraceable on the following standards: AKF 4691 PTB 04, Parallelendmaßsatz DKD-K-14501/95-10

SAMPLE