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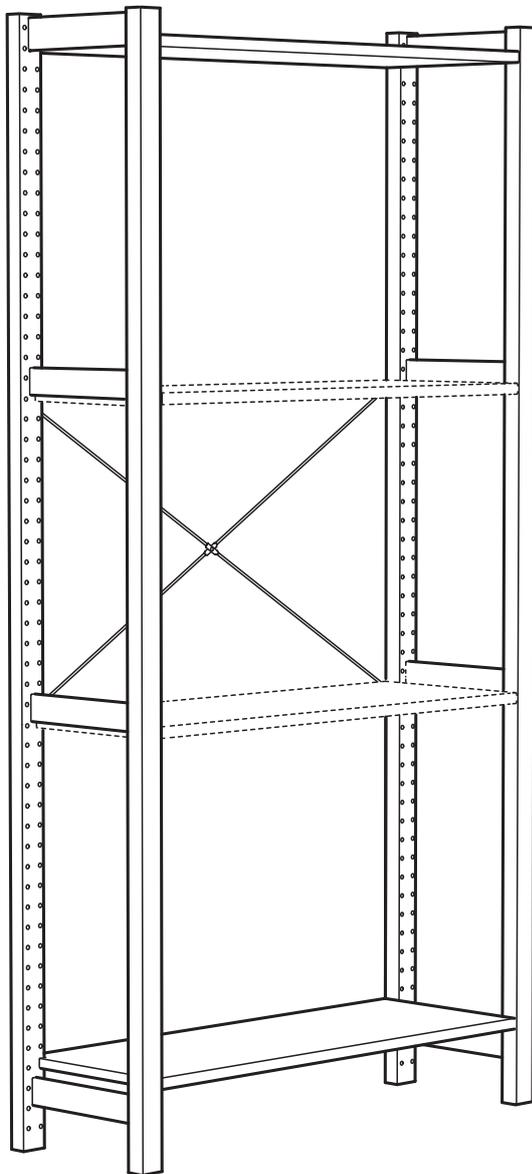
Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel



werk>start

IVAR

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Design and Quality
IKEA of Sweden

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werk>start

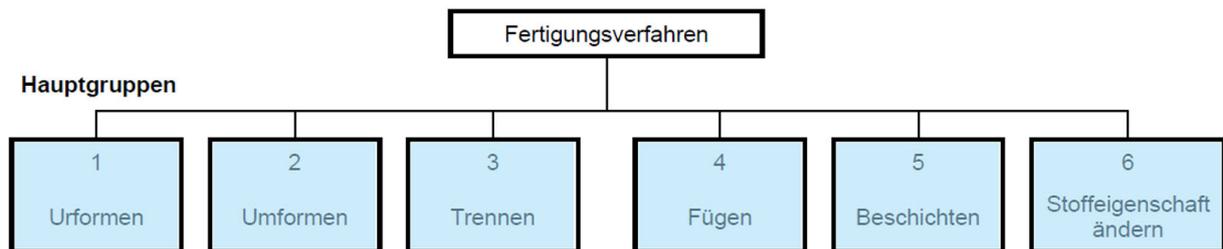
Einteilung der Fertigungsverfahren nach DIN 8580

Merkmale für die Hauptgruppen

Schaffen der Form	Ändern der Form				Ändern der Stoffeigenschaften
Zusammenhalt schaffen	Zusammenhalt beibehalten	Zusammenhalt vermindern	Zusammenhalt vermehren		
Hauptgruppe 1 Urformen	Hauptgruppe 2 Umformen	Hauptgruppe 3 Trennen	Hauptgruppe 4 Fügen	Hauptgruppe 5 Beschichten	Hauptgruppe 6 Stoffeigenschaft ändern



Hauptgruppen der Fertigungsverfahren

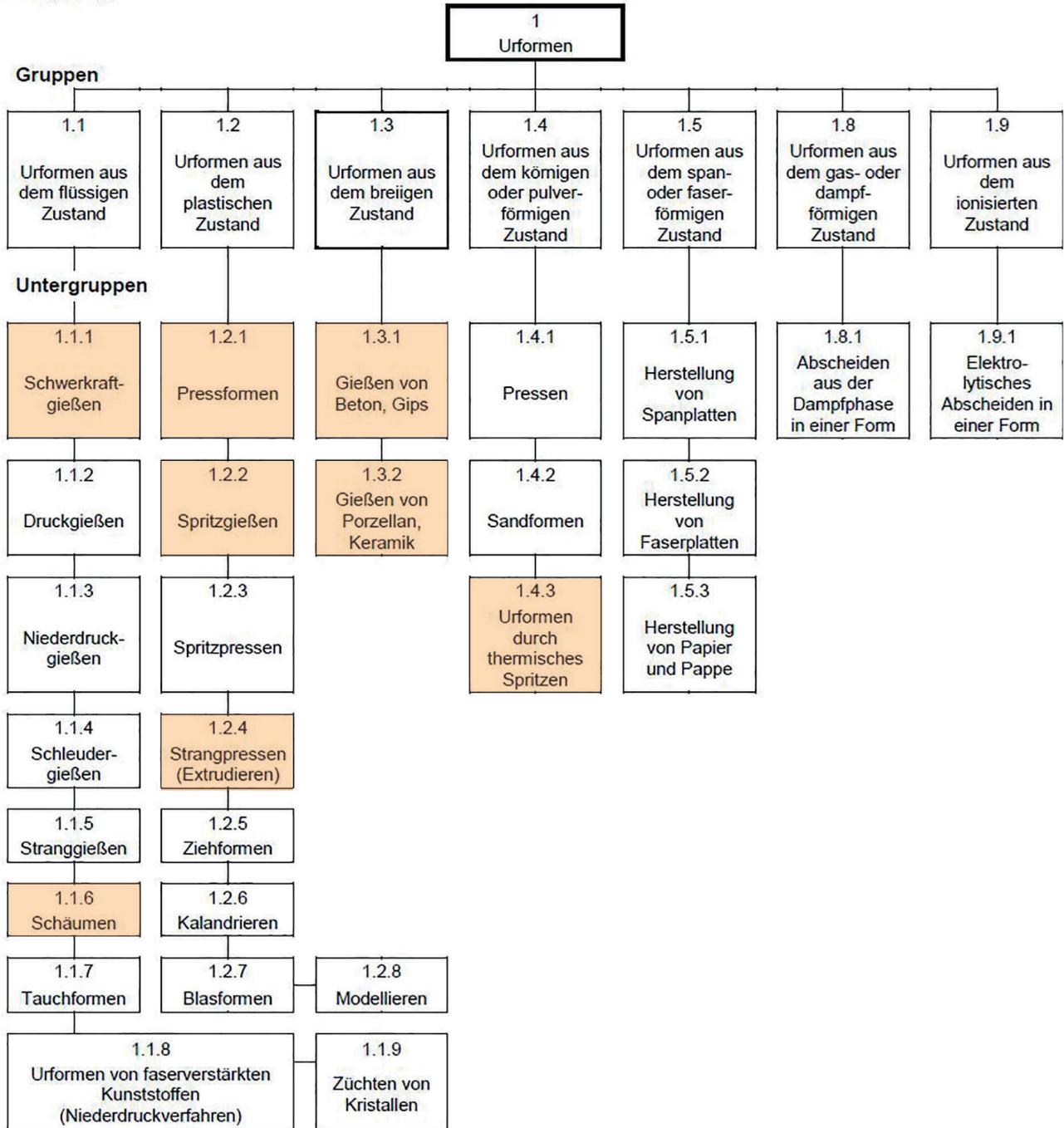




werk>start

1 Übersicht über die Einteilung der Hauptgruppe 1

Hauptgruppe

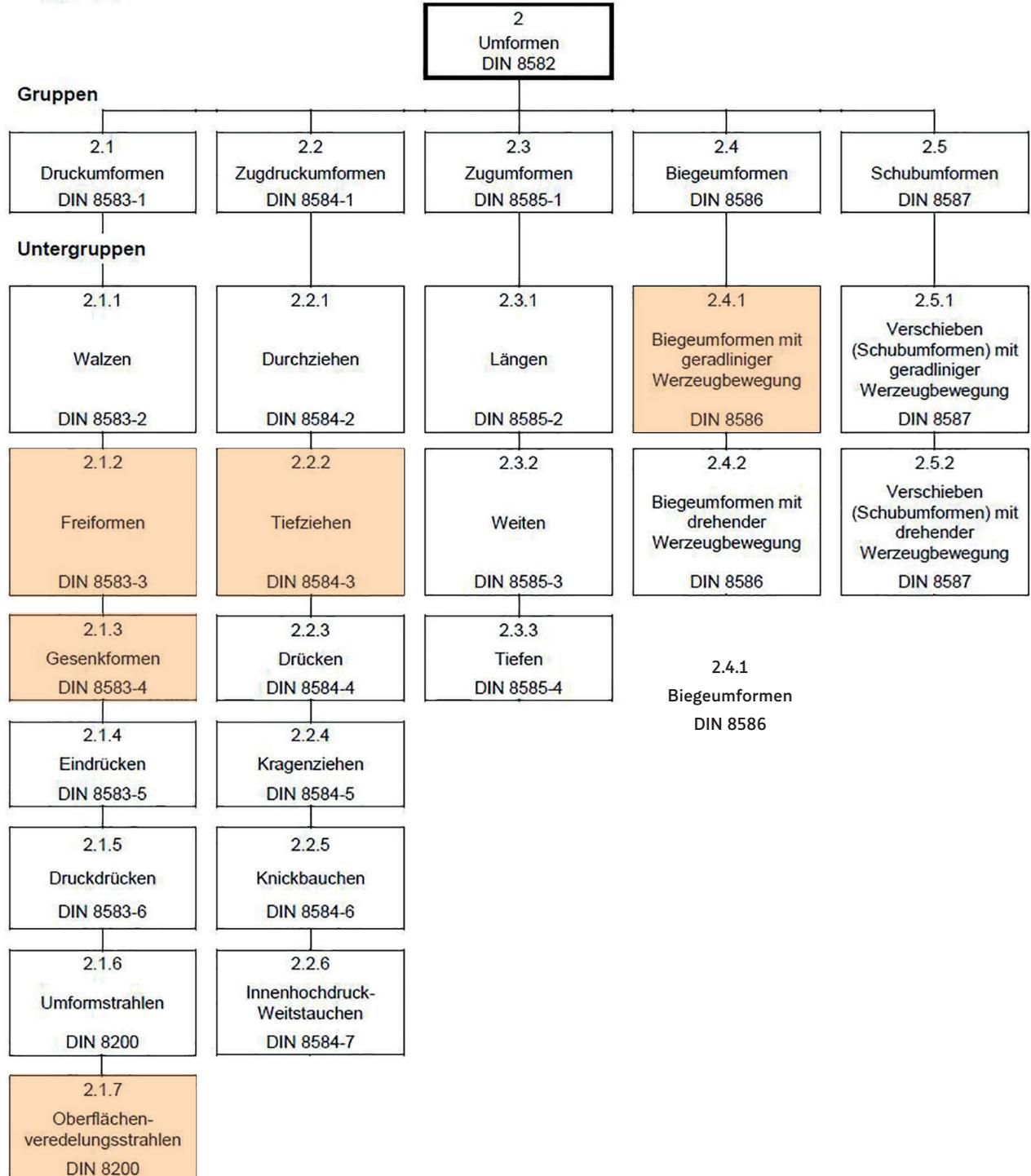




werk>start

2 Übersicht über die Einteilung der Hauptgruppe 2

Hauptgruppe



U

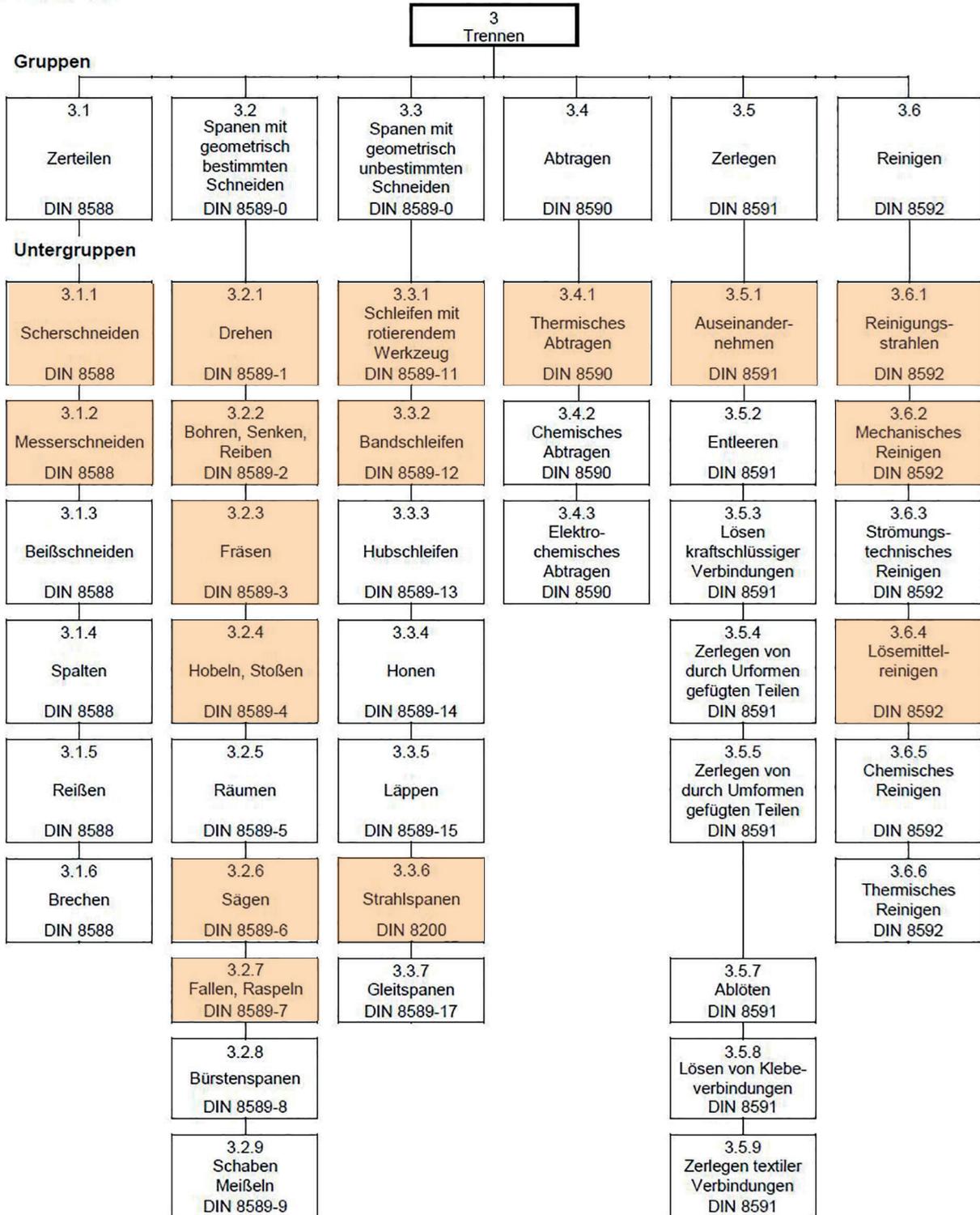
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werk>start

3 Übersicht über die Unterteilung der Hauptgruppe 3

Hauptgruppe



3.1.1
Scherschneiden
DIN 8588

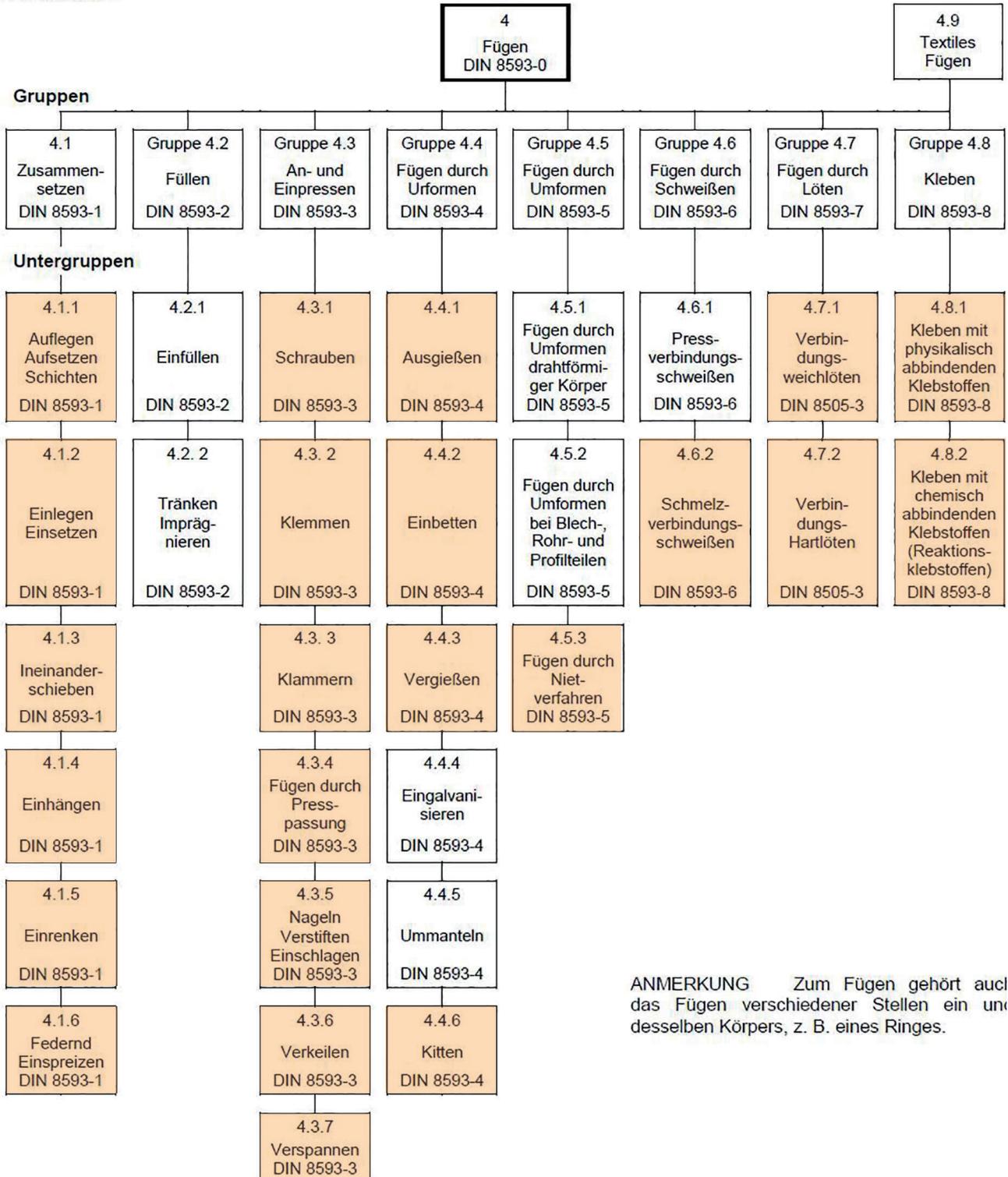
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4 Übersicht über die Einteilung der Hauptgruppe 4

Hauptgruppe



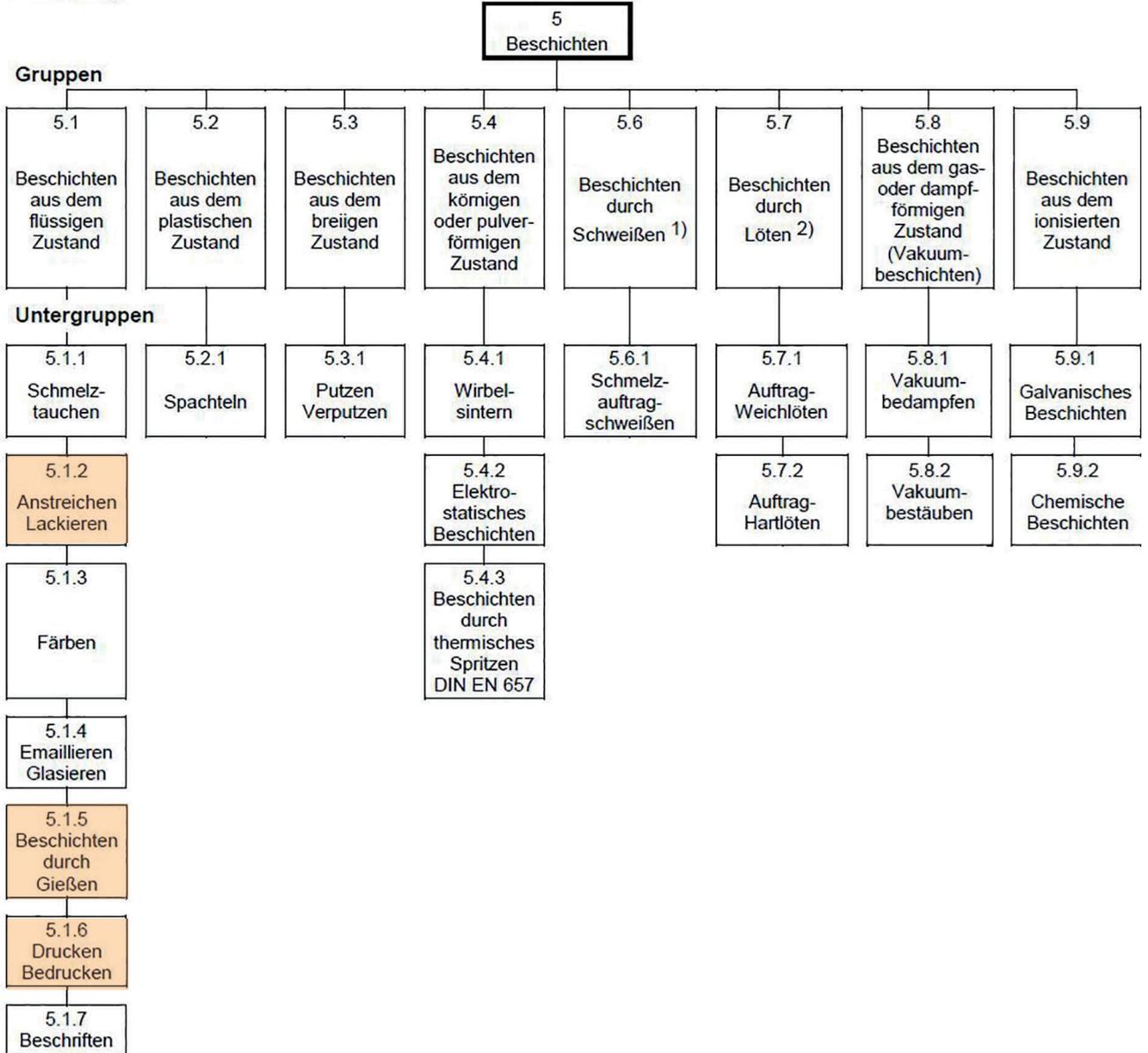
ANMERKUNG Zum Fügen gehört auch das Fügen verschiedener Stellen ein und desselben Körpers, z. B. eines Ringes.



werk>start

5 Übersicht über die Einteilung der Hauptgruppe 5

Hauptgruppe



U

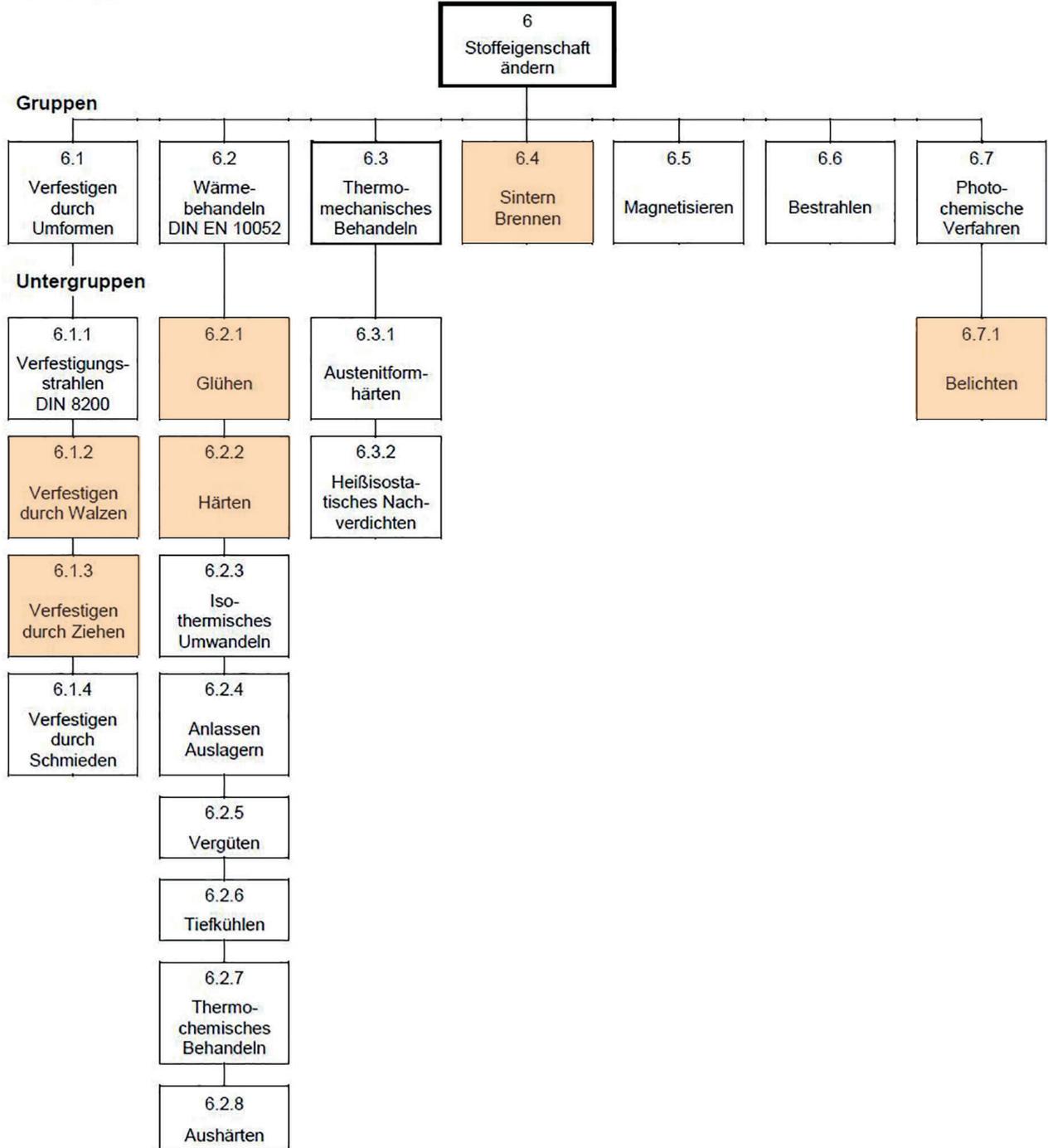
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werk>start

6 Übersicht über die Einteilung der Hauptgruppe 6

Hauptgruppe



B

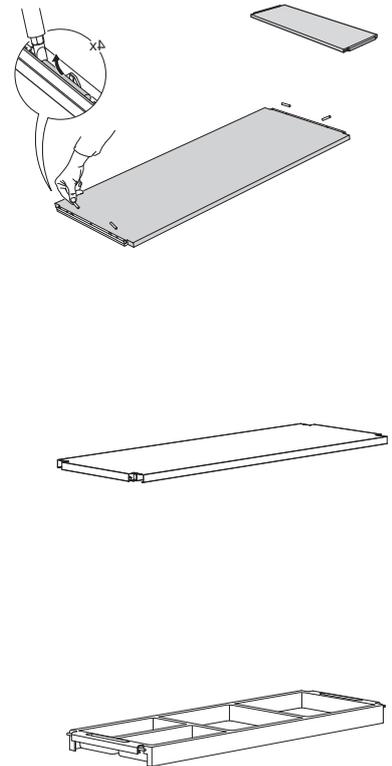
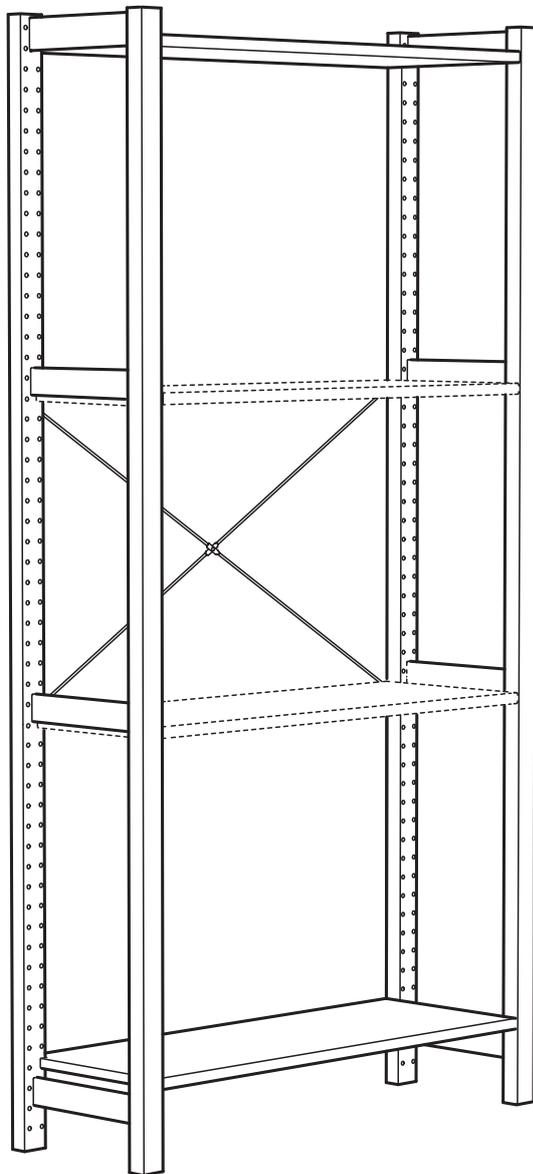
Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel



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IVAR

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IKEA of Sweden

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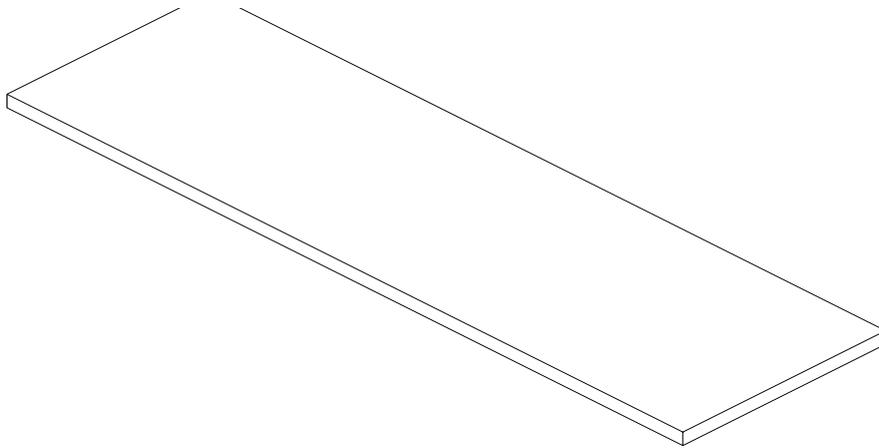
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Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel

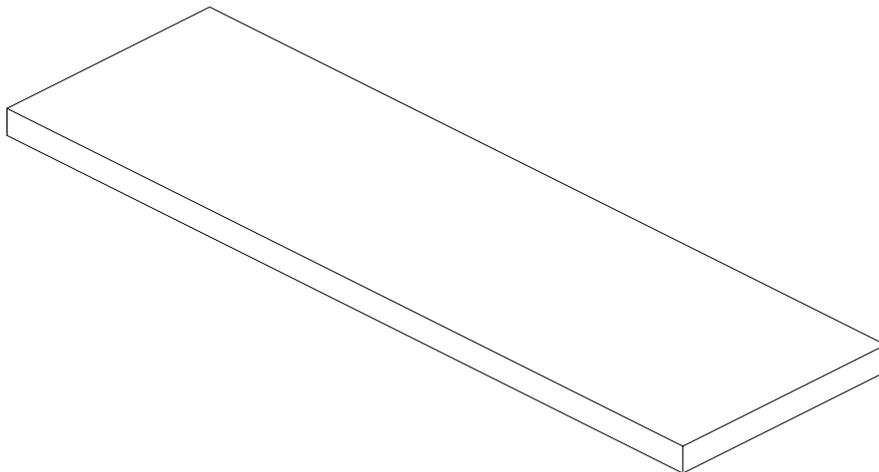


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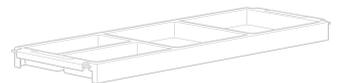
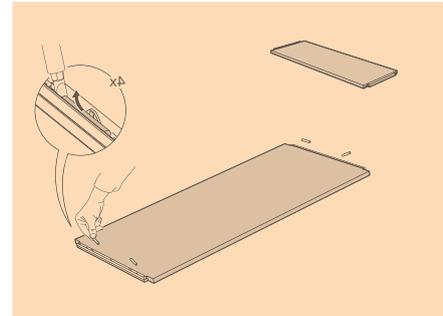
Fachboden Holz



HOBELN



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IVAR Holz Regalboden 1/6

3.2.4
Hobeln
DIN 8589-4



3.2.4
Hobeln
DIN 8589-4



G

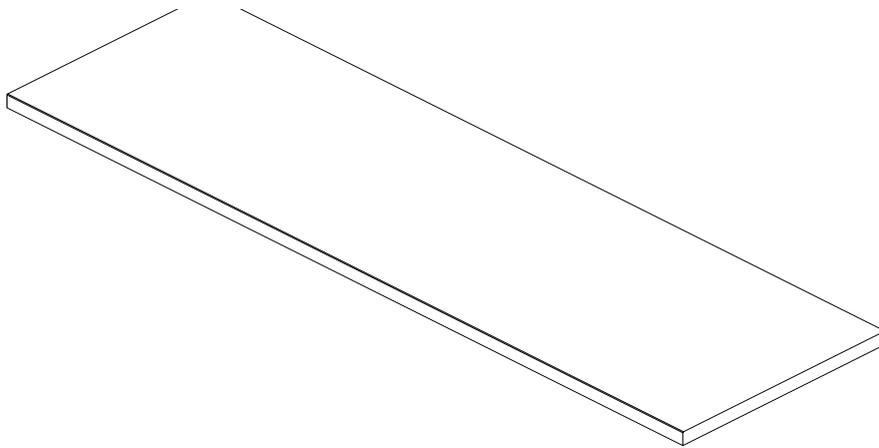
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Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel

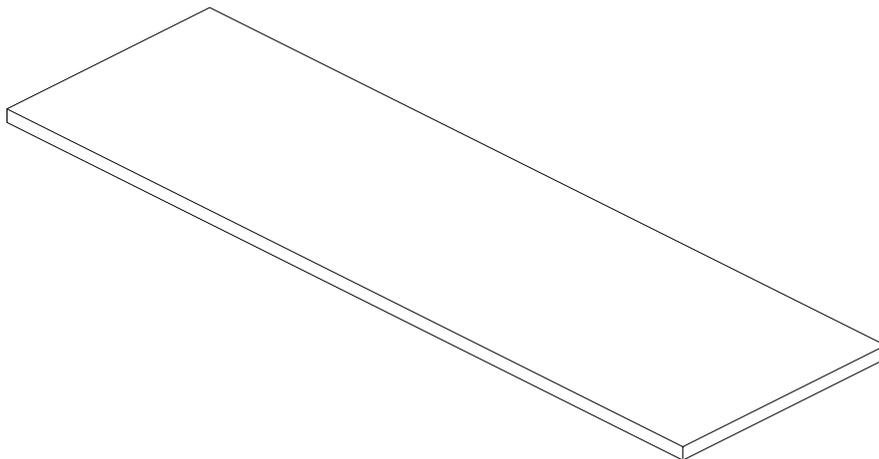


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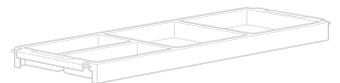
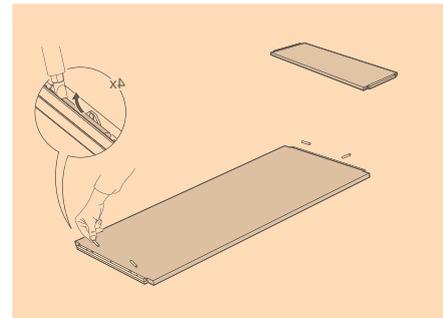
Fachboden Holz



FASEN



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IVAR Holz Regalboden 2/6

3.2.3
Fräsen
DIN 8589-3



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B

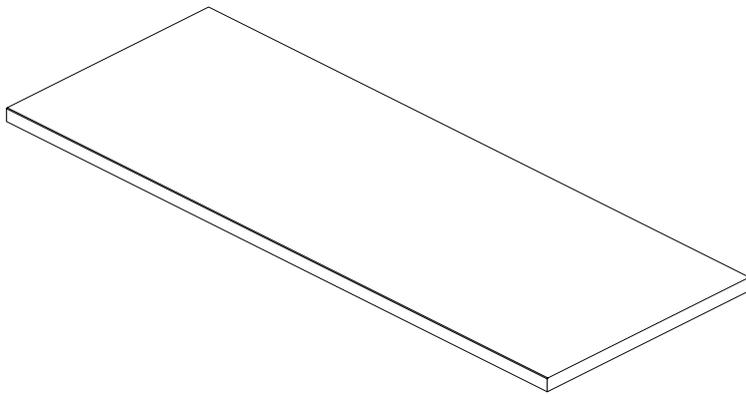
Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel



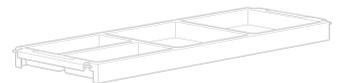
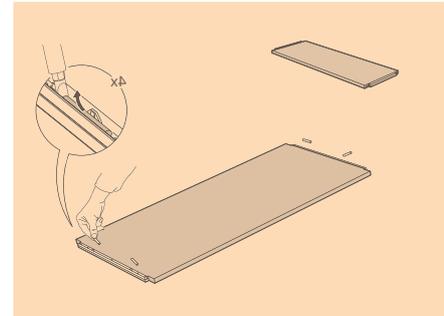
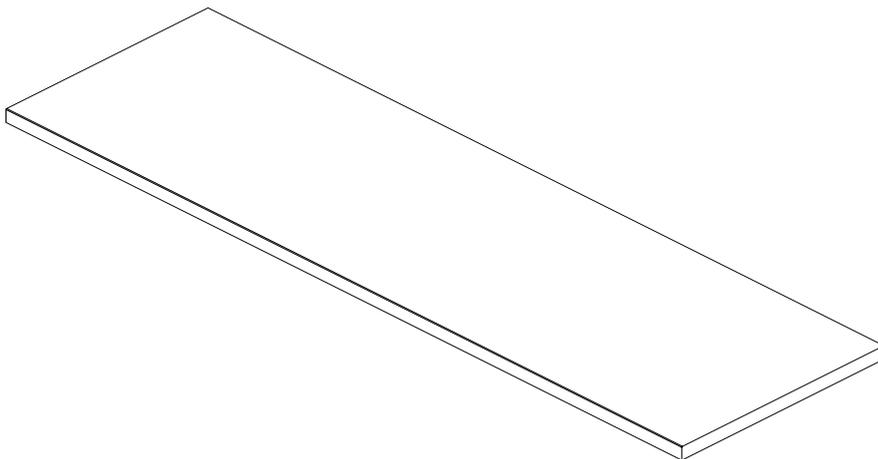
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Fachboden Holz

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FORMATSÄGEN



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IVAR Holz Regalboden 3/6

3.2.6
Sägen
DIN 8589-6



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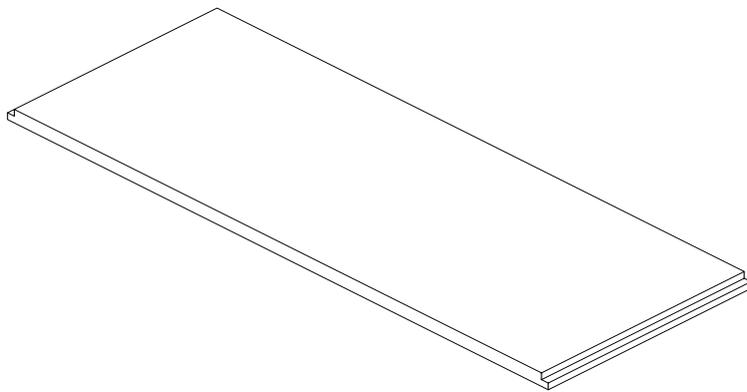
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Dipl.-Ing. Martin A. Büdel

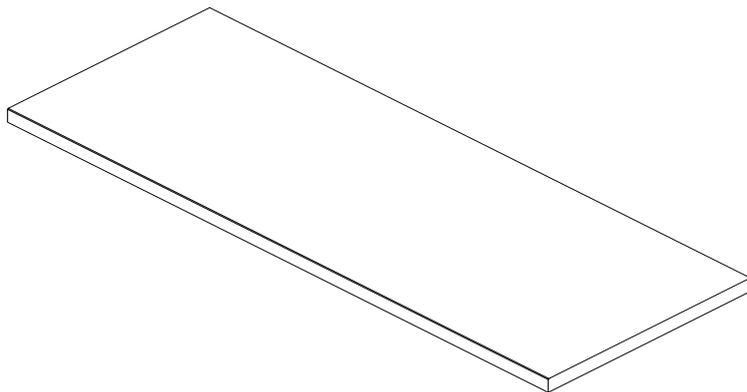


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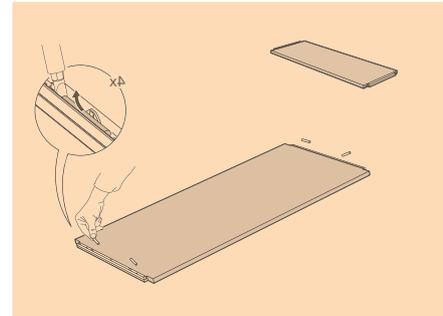
Fachboden Holz



FÄLZEN



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IVAR Holz Regalboden 4/6

3.2.3
Fräsen
DIN 8589-3



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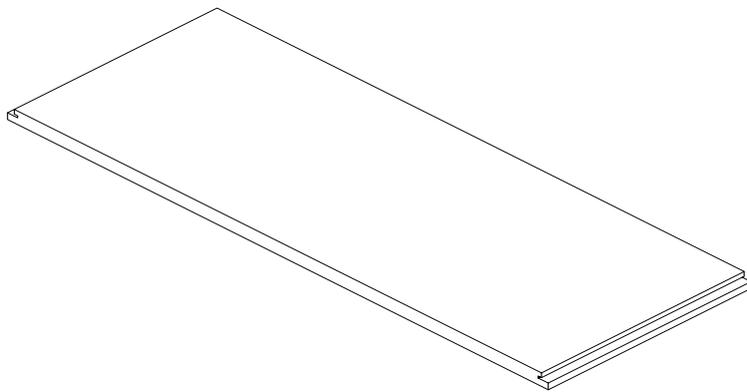
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Dipl.-Ing. Martin A. Büdel

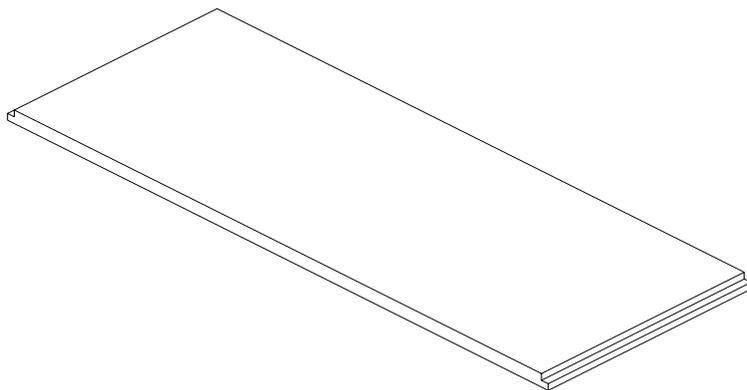


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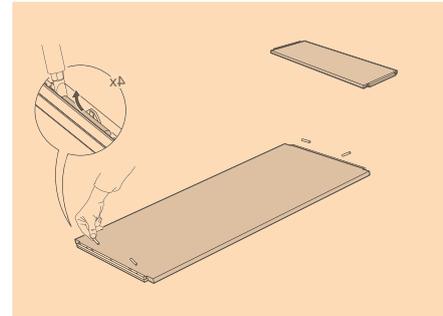
Fachboden Holz



NUTEN



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IVAR Holz Regalboden 5/6

3.2.6
Sägen
DIN 8589-6



3.2.3
Fräsen
DIN 8589-3



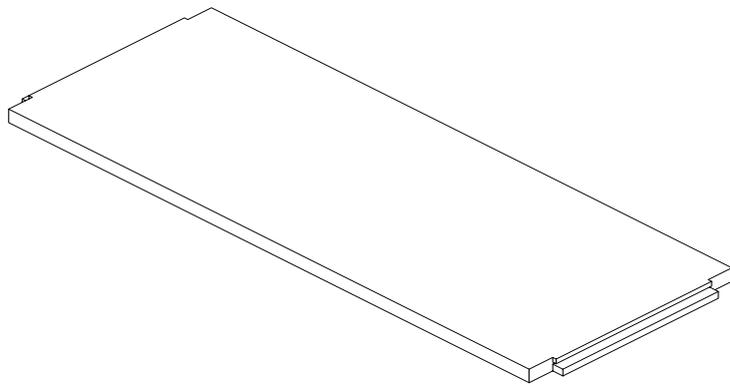
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Dipl.-Ing. Martin A. Büdel

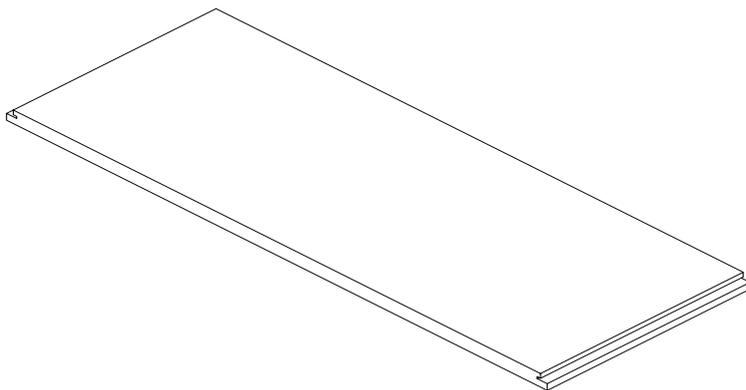


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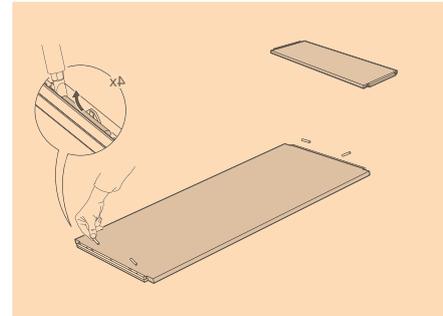
Fachboden Holz



AUSKLINEN



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IVAR Holz Regalboden 6/6

3.2.6
Sägen
DIN 8589-6



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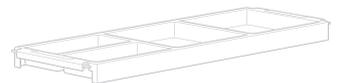
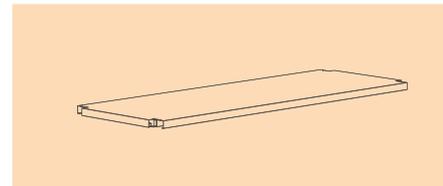
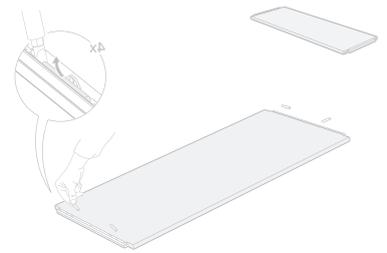
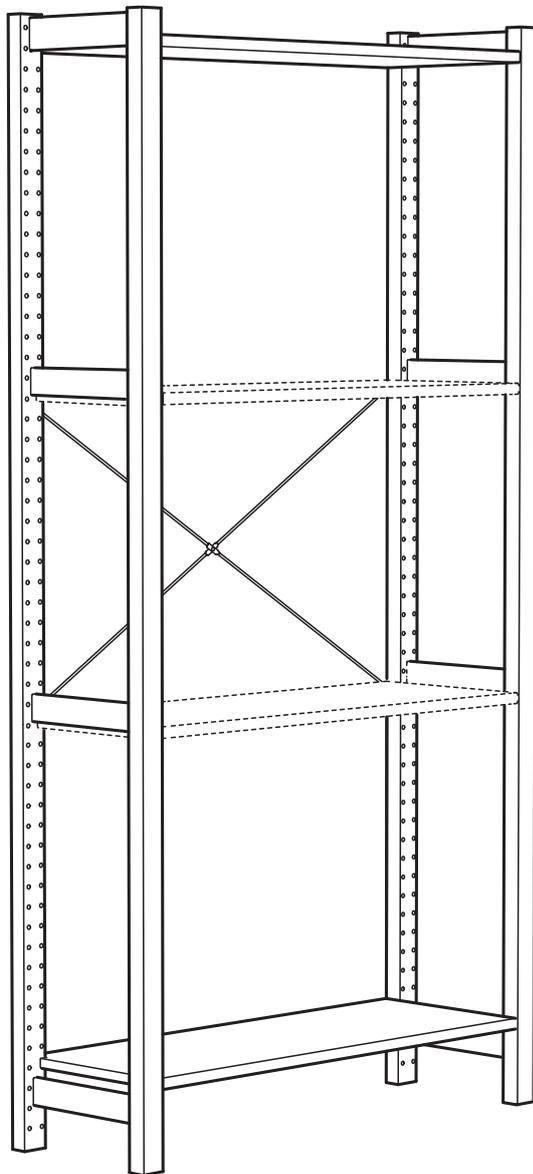
Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel



werk>start

IVAR

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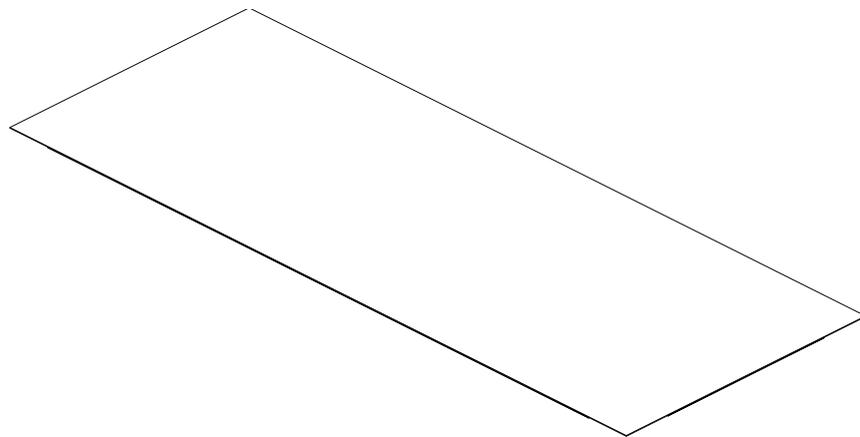
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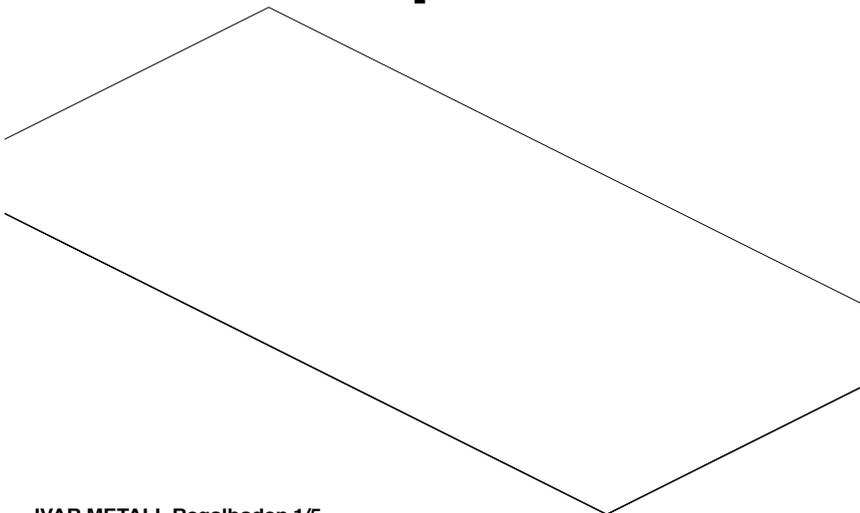


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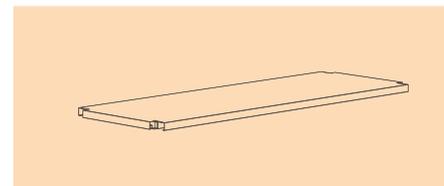
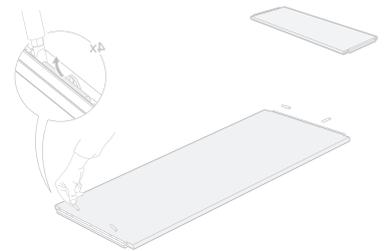
Fachboden Metall



FORMATIEREN



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IVAR METALL Regalboden 1/5

3.4.1
Thermisches
Abtragen
DIN 8590



3.1.1
Scherschneiden
DIN 8588

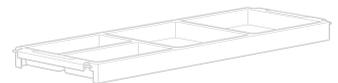
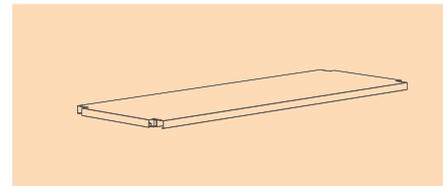
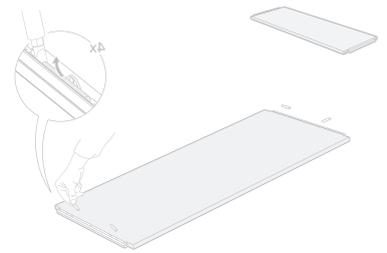
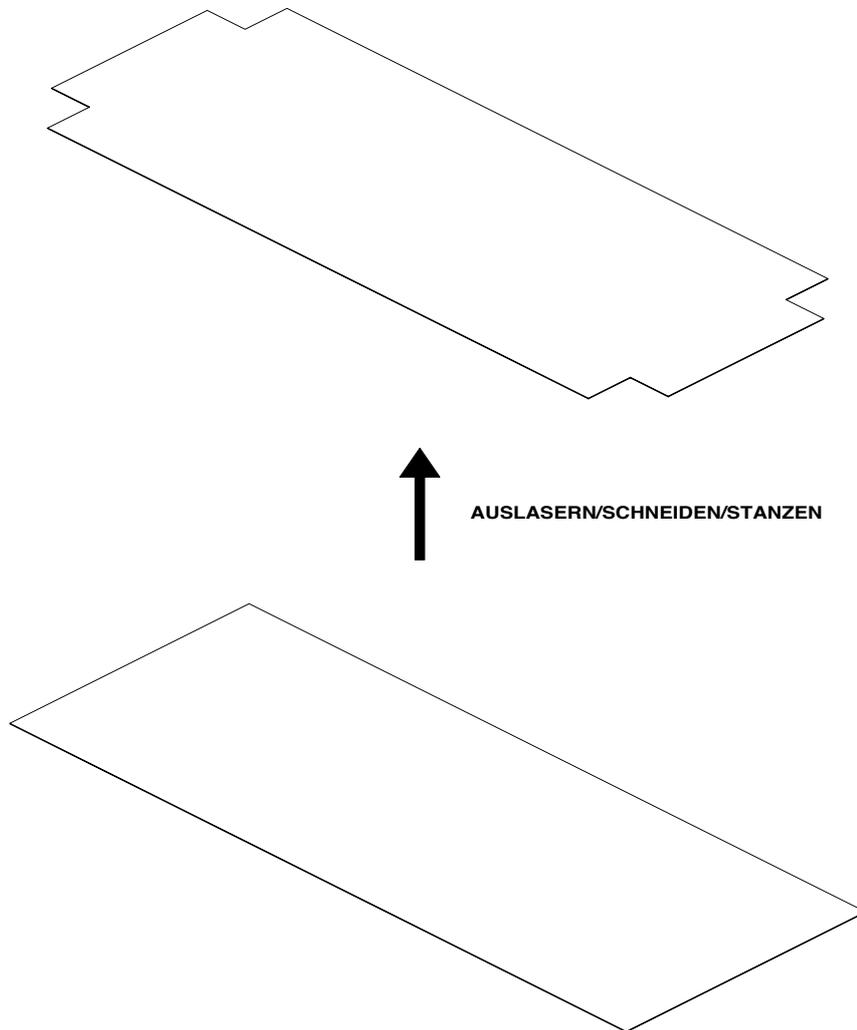


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Fachboden Metall

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IVAR METALL Regalboden 2/5

3.4.1
Thermisches
Abtragen
DIN 8590



3.1.1
Scherschneiden
DIN 8588



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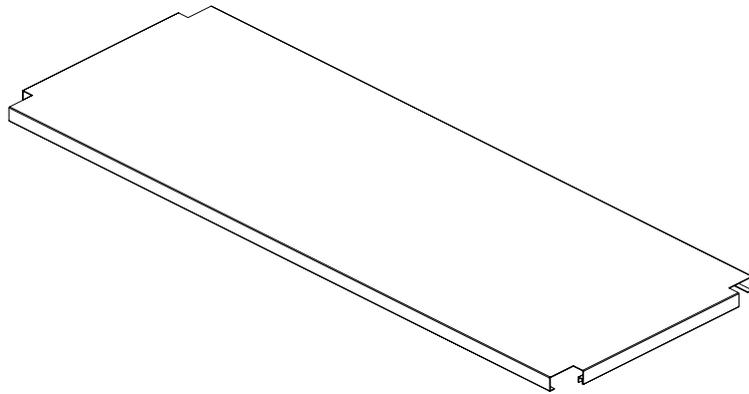
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Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel

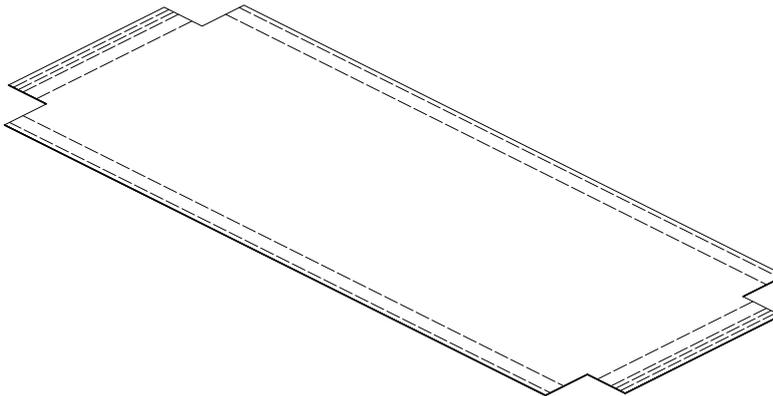


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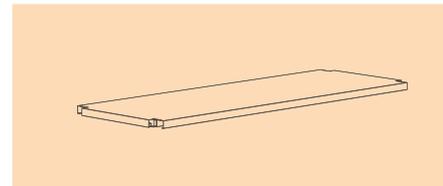
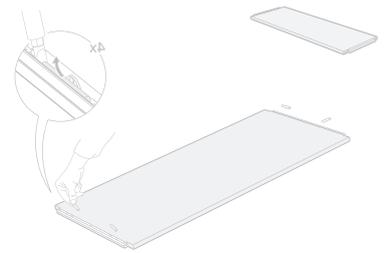
Fachboden Metall



UMSEITIG UMBIEGEN



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IVAR METALL Regalboden 3/5

2.4.1
Biegeumformen
DIN 8586



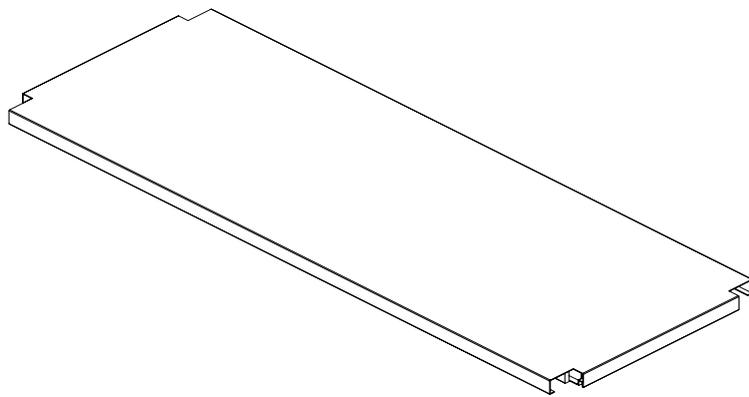
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Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel

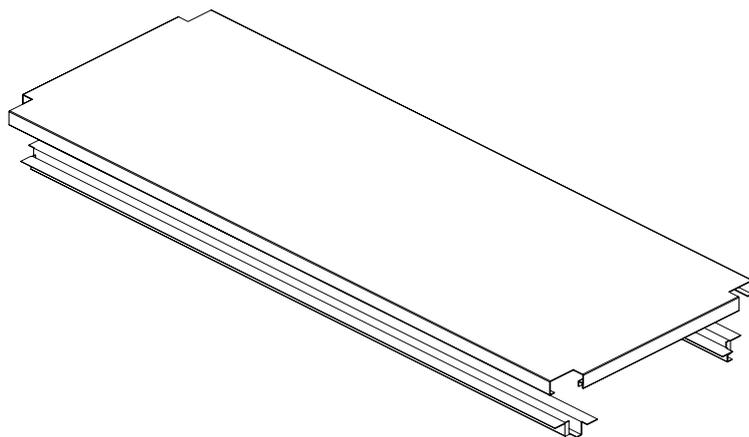


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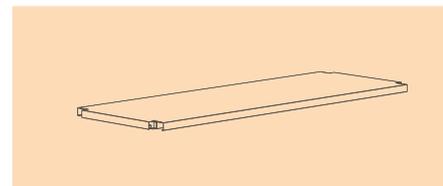
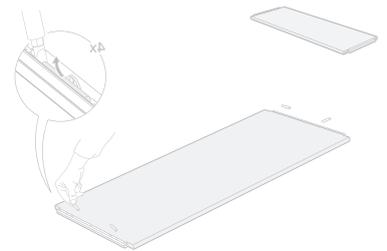
Fachboden Metall



PROFILE EINKLEBEN



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IVAR METALL Regalboden 4/5

4.8.1/2
Kleben
DIN 8593-8



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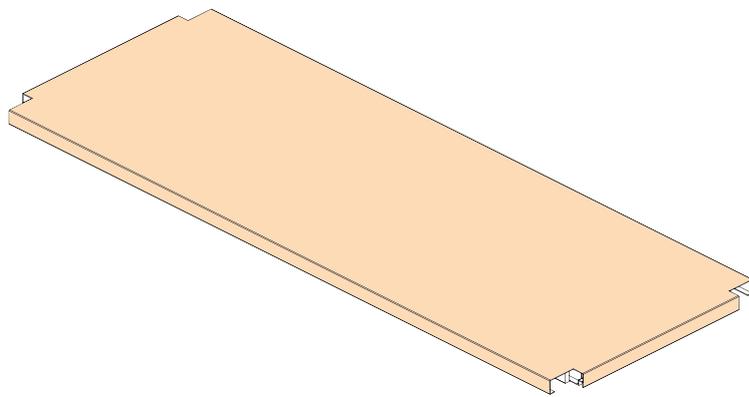
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Dipl.-Ing. Martin A. Büdel

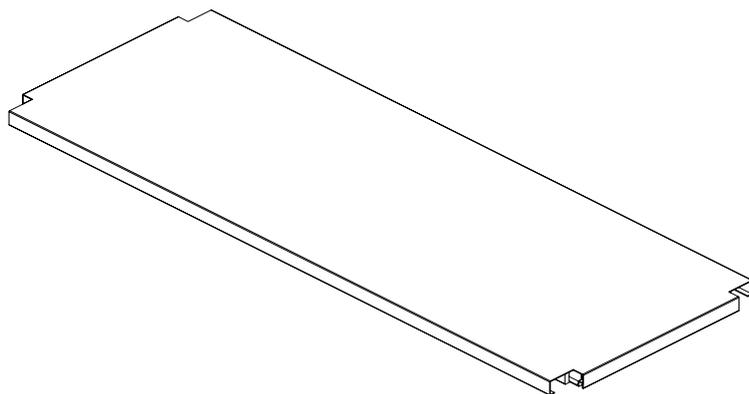


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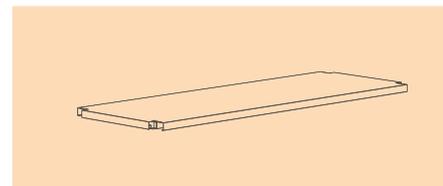
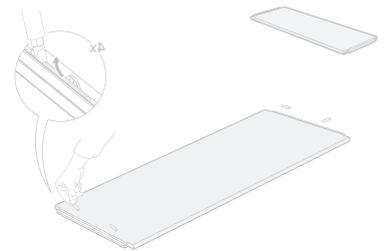
Fachboden Metall



BESCHICHTEN



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IVAR METALL Regalboden 5/5

5.1.2

Anstreichen
Lackieren



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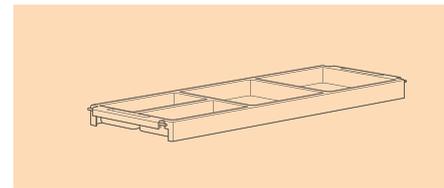
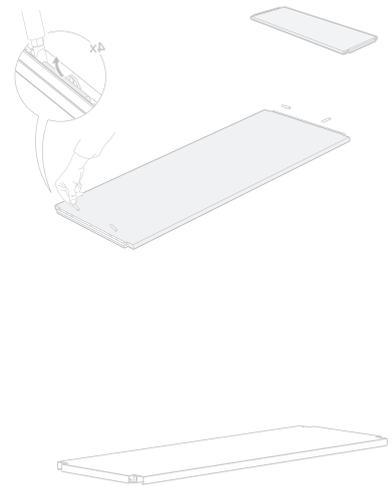
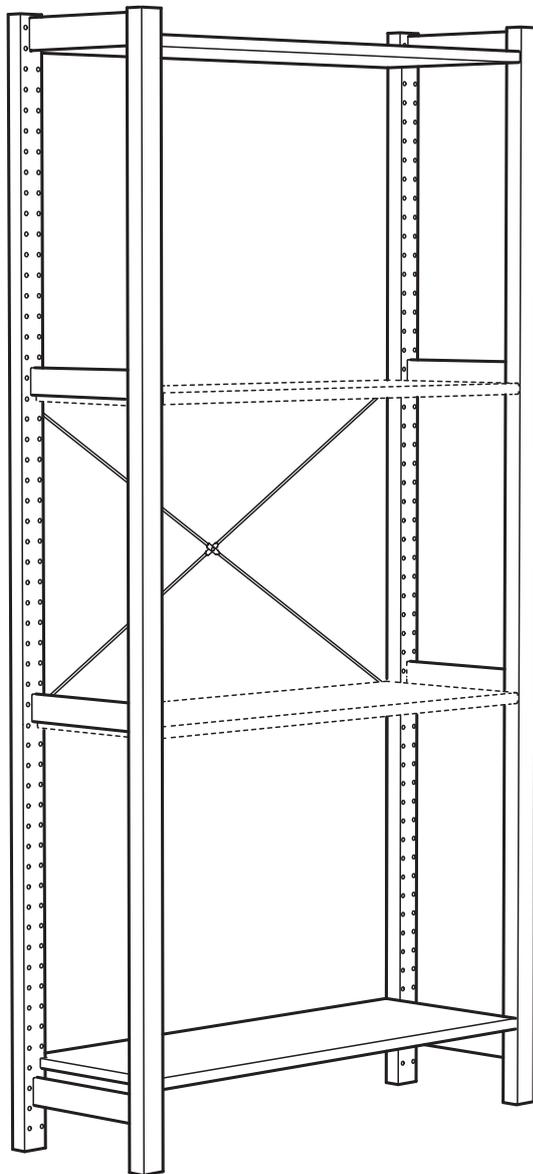
Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel



werk>start

IVAR

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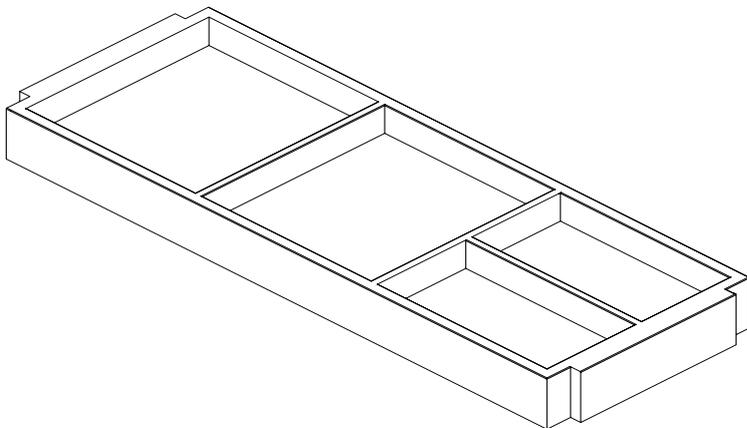


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IKEA of Sweden

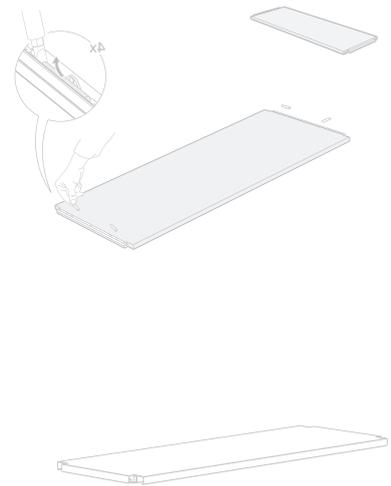
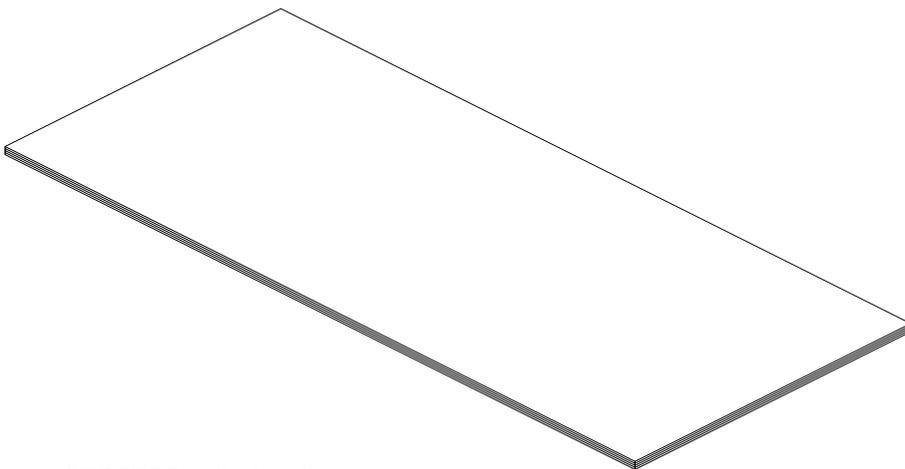
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Fachboden Kunststoff

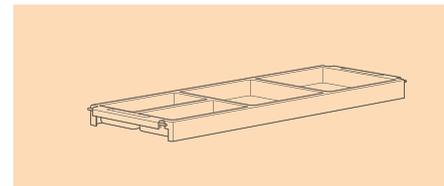


PET-STAPELVLIES PRESSEN



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IVAR FILZ Regalboden 1/3

6.2
Wärme-
behandeln



1.2.1
Pressformen



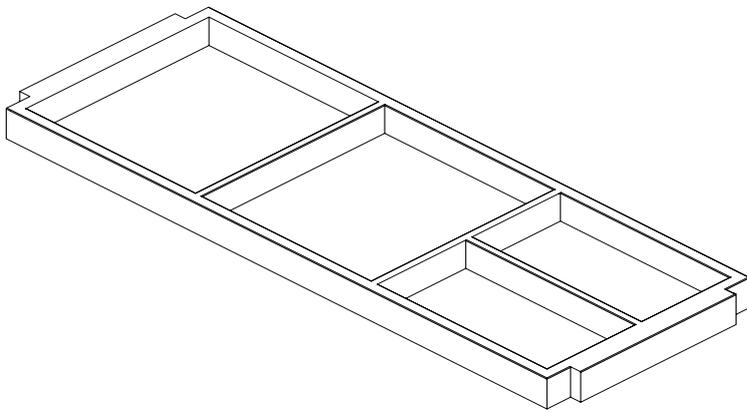
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Zentrale Werkstätten der BURG
Dipl.-Ing. Martin A. Büdel

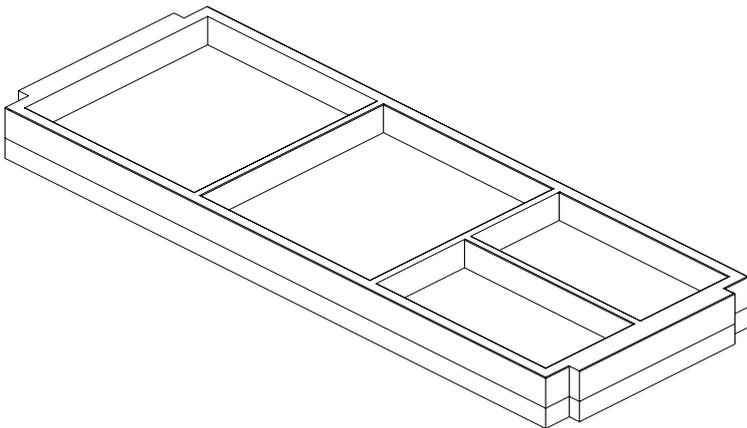


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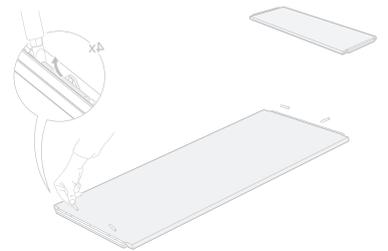
Fachboden Kunststoff



AUF HÖHE SCHNEIDEN



U



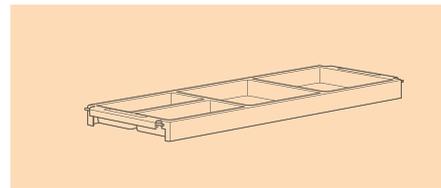
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IVAR FILZ Regalboden 2/3

3.1.2
Messerschneiden
DIN 8588

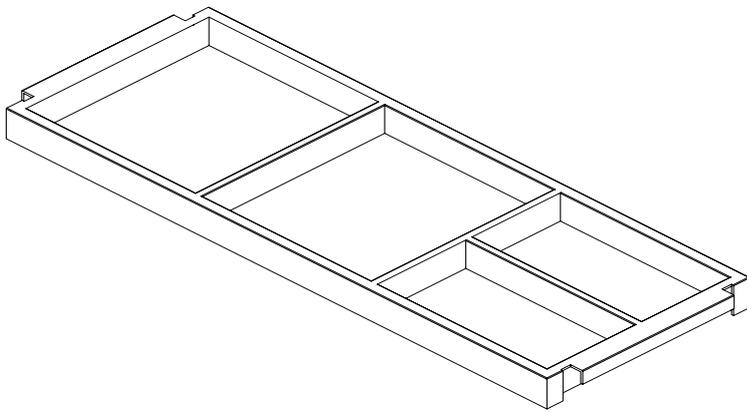


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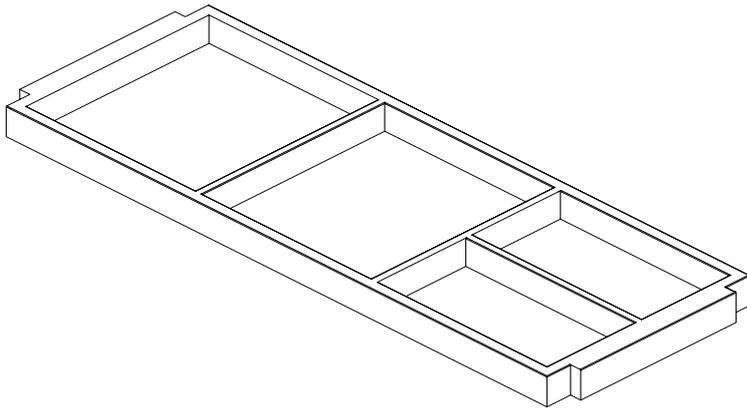




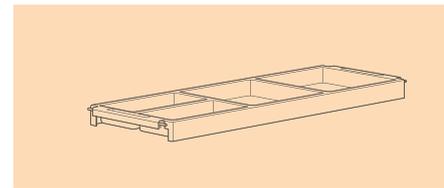
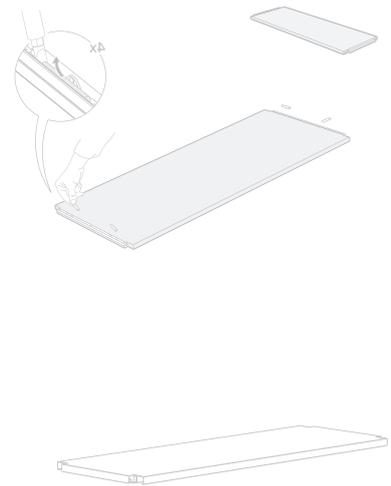
Fachboden Kunststoff



AUSKLINKEN



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R

IVAR FILZ Regalboden 3/3

3.2.6
Sägen
DIN 8589-6



3.1.2
Messerschneiden
DIN 8588



G



werk>start

Toolbox

ALL HOLZWERKSTATT KUNSTSTOFFWERKSTATT METALLWERKSTATT DIGITALE WERKSTATT
FARBSPRITZRAUM GIESS- UND LAMINIERWERKSTATT DATEN URFORMEN UMFORMEN TRENNEN
FÜGEN BESCHICHTEN STOFFEIGENSCHAFTEN ÄNDERN



3D Drucker (LDM/Paste)
Bearbeitung: 3D drucken
Materialien: verschiedene
keramische Massen Bauraum: Ø:
200 mm x Z: 400 mm Auflösung: 1
/ 1,5 / 2...



**Handwerkzeug
(persönlicher
Werkzeugkoffer)**
Handwerkzeug

Spritzgussanlage
Spritzgießen



3D Drucker (Pellets)
3D drucken



Tellerschleifmaschine
Schleifen



Schwingschleifer
Schleifen



Handbohrmaschine
Bohren



Blechscherer
Schneiden



Akkuschauber
Bohren



Geradschleifer (groß)
Schleifen



Geradschleifer
Schleifen



Sandstrahlanlage
Sandstrahlen