





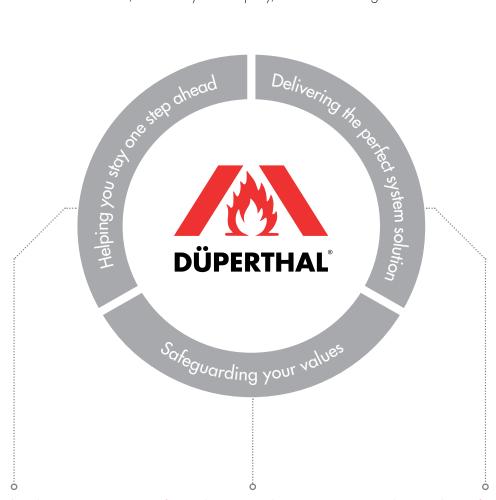
Safety Storage Cabinets
Certified System Solutions





Welcome to DÜPERTHAL

As a leading German quality and technology enterprise, we set the standards when it comes to designing system solutions for the process-optimised storage of chemicals and hazardous materials. All of our products and solutions are tailored specifically to meet your requirements. In addition to maximum safet, they offer the highest levels of effectiveness and efficiency – also in situations where there is no risk of fire. e are therefore providing you with constant reassurance. This is what we, as a family-run company, stand for. The original is what we stand for.



Always a step ahead

You get a strong and active partner with us. Our aim is to always stay one step ahead. All of our products exceed the prescribed standards. The same applies to our work with you. We provide honest analyses and openly discuss challenges and propose improvements, helping you to always identify the ideal solution.

Safeguarding your values

For more than 40 years, we have been the industry standard as Europe's first manufacturer of safety storage cabinets. We have proven our technical and business management competency with successful projects world wide. And we always want to improve. We are continually enhancing our safety solutions - so that you can protect your values with us in the future.

Delivering the perfect system solution

DÜPERTHAL is the only supplier with whom not only the high-quality, standard products are TÜV certified, but also your individually tailored system solutions. There is no need for on-site acceptance. Whether consultation, components, installation, or maintenance - we want to always offer you the best possible value. In product safety and from a business management perspective.

Important information at the outset



Constant development for your safety

We don't rest on our good reputation. Because we are aware that your work is constantly becoming more complex. That's why your demands on our safety solutions are increasing. In order to meet these requirements, we are continuously pushing ahead with further developing our products. We invest time, money, passion and above all one thing: commitment.

Did you know that ...

- » the name DÜPERTHAL stands for full service?
- » DÜPERTHAL markets more than just products?
- » the internet-enabled Cabi2Net brings smart technologies into the workplace?
- » the system solutions from DÜPERTHAL are more than just cabinets?
- » you profit economically and technologically from the wide range of solutions

You can find detailed answers to these questions and further useful information on the following pages - compact, practical, and forward-looking!



Cabi2Net

Simple, safe, effective – the Cabi2Net from DÜPERTHAL is revolutionising the central control of work processes. With every internet-enabled end device, Cabi2Net offers you a virtual look into your safety storage cabinet and information, example about fill: fill levels, ventilation functionali, and provides warning notices.

Cabi2Net can be easily scaled, expandable as necessary through additional modules and can even be integrated into general building automation.



HARDWARE

- Internet capable system
- Processes sensor signals (fill level, pressure flow rate, and more
- Controls signal lights, warnings, valves and more



SOFTWARE

- All cabinets can be activated separately
- Digital real-time protocol
- Operate with keyboard, mouse or touch screen



NEW FUNCTIONS

- One interface, everything under control
- Planning of resource-conserving container exchanges
- Remote access to important data and information



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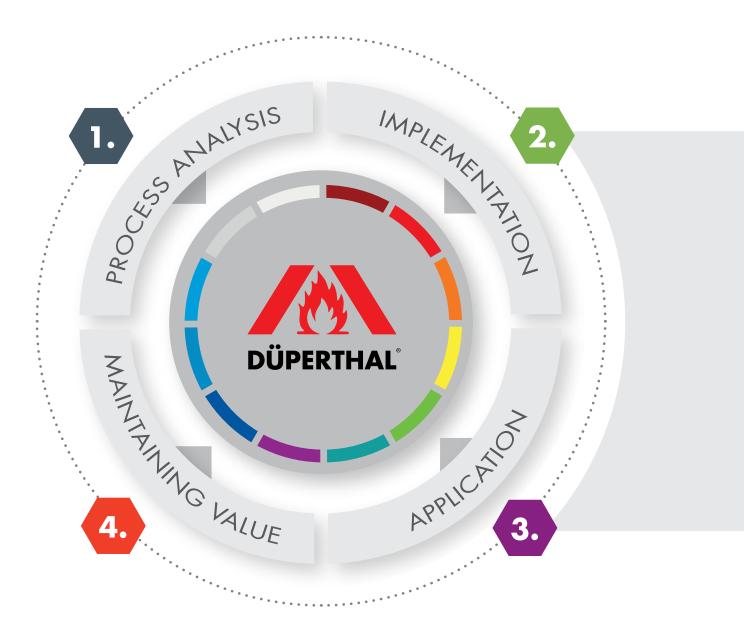


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From the process to realisation: We go with you

We offer products and service for every requirement

DÜPERTHAL offers system solutions for process-optimised storage of chemicals and hazardous substances. for scientific research, development and production. Our goal is to always fulfil your individual requirements wit customised solutions. This is why you can expect not only outstanding certified products from us, but also outstanding full service.









Services throughout the process

One of our distinctive features is our profound knowledge of our customers' processes. For more than 40 years, we have stood by you as an active companion and consultant: from the analysis of your individual requirements, to the planning and implementation of the optimal solution, through to permanent maintenance.

Innovative products for every situation

Our product portfolio for the storage, use and disposal of chemicals and hazardous substances is as diverse as the requirements for their handling. In addition to high-quality, certified safety storage cabinets, we ofer a variety of fitting options and accompanying products for eve y need, however specific



Technical added advantages

- » Safety storage cabinets and accompanying products for every application
- » More occupational safety and environmental protection through maximum fire protection
- » Maximum comfort during use and operation

Economic added advantages

- » Optimisation of processes and work processes.
- » Continuous value retention
- » Excellent service throughout the process

Tailored to your processes



Process analysis



Implementation

Not only do you get a technically perfect system from

us, but we also make sure that you have to put in as little

effort as possible. We deliver our products directly to the

site and take over the implementation. Full service is our

Your problem is our challenge

Your processes should run optimally - in every respect. Our experts take a closer look at safety-relevant and profitability aspects. ou are guaranteed the greatest possible flexibility in implementation. Because we have the right solution for every situation.



From process analysis to concept

Together with you on site, our experts will collect extensive data in an as-is analysis. Based on this information and your requirements, a target state is defined in a task folde.



Modular and tested system solutions

We use the full range of DÜPERTHAL's standard technologies and supplement them with modular and type-tested systems, adapted to your requirements.



principle.

Shipment and delivery

Safe and economical solutions

Safety for us starts with the delivery of the product. The specialist carrier appointed by us works according to a detailed checklist and therefore ensures that our products are professionally transported to and installed in their final place of use - delivery just-in-time and just-in-place.



Project support on site

The professional handling of complex projects requires more than just delivering safety storage cabinets. DÜPERTHAL therefore provides comprehensive support for your national and international projects with planning, delivery service, construction site support and training of the lab managers and users.



Installation, implementation and final acceptance

Our team of specialists ensures a smooth and optimal assembly process on site. After complete installation of all components, the commissioning and joint final acceptance will be carried out with you.







Application



commissioning.

Maintaining value

To ensure the functionality and safety of your system

solution in the long term, we recommend an annual

inspection. Our service agreement guarantees you

maintenance and spare parts long after installation and

Optimal integration - safe and economical solutions

We work conscientiously to optimise your process flows sustainably. This means that we attach great importance to documentation and training. In addition, the latest technology is used for evaluations. In this way, we integrate our products ideally into your existing structures.



Documentation

A detailed operations manual is supplied with each product, especially for complex projects. This already includes the CE certificate of confo mity and the type certificate for the patented system solutions tested by independent third parties.



Training and risk assessment

In order that you are sure that our components can be used professionally and can be operated without any risk, we will be happy to train the responsible persons directly on the spot. The points treated can be included in your risk assessment.



Evaluation

With the Internet-capable Cabi2Net, all relevant operating parameters of the safety storage cabinets can be constantly monitored and evaluated. The query can be sent simply from a mobile phone, tablet or PC. This also safeguards your processes and helps you to make the internal value chain even more efficient



Occupational safety and health OSHA / EU-OSHA

Product life cycle - maximum safety

When dealing with hazardous substances, the highest priority is the protection of employees and the environment. Therefore, DÜPERTHAL safety storage cabinets guarantee compliance with the requirements of the Occupational Safety and Health Administration (OSHA and EU-OSHA). We will clarify all relevant topics and train you in the safe handling of our products

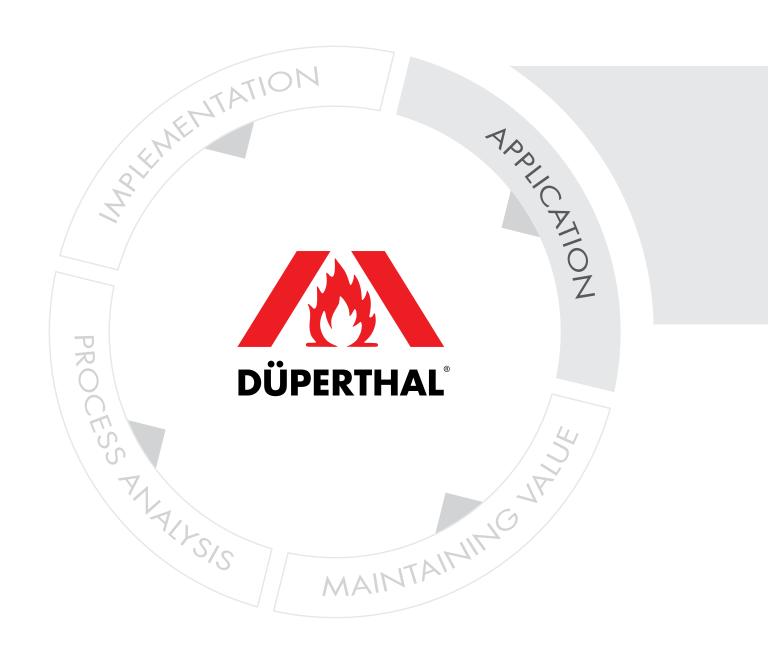


Permanent service agreement with regular maintenance and service

Highly complex processes rely on robust structures. With our service agreement, we can safeguard our reliable system solutions even better in your interest. The annual maintenance also extends the manufacturer's guarantee. A double benefit for you in terms of safety and profitabilit.

Your Challenge – Our Solution

The handling of hazardous substances is subject to stringent regulations – for good reason. DÜPERTHAL can help you to meet all the relevant requirements whilst at the same time optimising your work processes. Based on the analysis of the actual status and the jointly defined objective, you receive an individually tailored and modular system solution from us. Thanks to our varied product range, you can design your laboratory and workplace flexibly and as needed











1. Storage

Safely storing hazardous substances

We offer a wide range of products for the safe storage of sensitive hazardous goods. Up to 90 minutes of protection in case of fire ensures maximum safety.



2. Use

Using products ergonomically

In addition to a large range of standard solutions, we have tailor-made solutions that integrate seamlessly into your workflows and optimise them.



3. Disposal

Disposing of materials in an environmentally sound manner

There are strict regulations for the disposal of dangerous goods. We provide a wide range of products and components for safe implementation in compliance with regulations.

90 minutes - Course of events and timetable of a fir

In the event of a fire, the 90 minutes of tested fire protection is the decisive factor in protecting people and minimisin damage to property. DÜPERTHAL safety storage cabinets of fire resistance rating ype 90 allow sufficient time for workers to leave the room in the event of a fire and allow the fire brigade s ficient time to get into the laborato y. Just before a smaller extinguishable fire from stored flammable substances causes an uncontrollable fire



0 minutes - start of the fire

- » The fire ala m is activated.
- » Workers begin to leave.

5-10-min.

5-10 minutes - after the start of the fire

- » Workers are outside the danger zone.
- » The fire brigade is on the way to the site



The test of the cabinet under fire conditions is pa t of the standard. Each cabinet model is type-tested in a fire chamber in accordance with DIN EN 14470-1. The test parameters and test temperatures in the fire chamber and directly in the cabinet are specified in the standard, and fu ther details are provided on the following pages.



10-15 min. 90 min.

10-15 minutes - after the start of the fire

» The fire brigade is at the source of the fir

After 10 minutes of burn time

- » Safety storage cabinets with a fire resistance o 10 minutes are now losing their function.
- » The flammable substances are no longer safe
- » The fire brigade must fight the fire at a consid bly increased risk.
- » Heavy damage is to be expected.



Your benefits with the 90-minute technology

- » Safety storage cabinets Type 90 retain their function for 90 minutes.
- The hazardous substances are stored safely for at least 90 minutes.
- The fire brigade has considerably more time t extinguish the fire safel.
- » Reduction of the fire load and minimisatio of damage.



Fire chamber test according to DIN EN 14470-1

The fire resistance rating of safety storage cabinets in accordance with DIN EN 14470-1 is determined by the rise of temperature of the cabinet interior inside of a fire chamber according to the temperature-time cu ve in accordance with DIN EN 1363-1. Starting from an initial temperature of 20 +/- 5 °C and after the time until the temperature in the cabinet interior increases to 180 °C maximum, the cabinet is then classified as ype 15, 30, 60 or 90 (analogous to time in minutes). Safety storage cabinets for pressurised gas cylinders are subjected to a comparable test in accordance with DIN EN 14470-2, details on this are provided on page 264.





Your economic advantage

Example calculation: (average values)

Cost of purchasing a safety storage cabinet tested fire resistance

Profitability/Costs

US standards European standard FM/UL, NFPA 30 DIN EN 14470-1

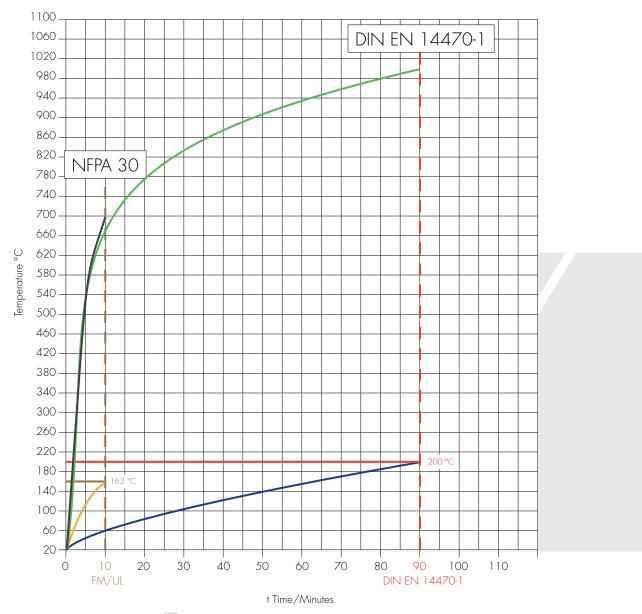
€ 1,000 € 2,430 10 minutes 90 minutes

100 € per min. 27 € per min.

Video of an extreme test









Fire and explosion-proof safety storage cabinets Type 90 by DÜPERTHAL offer a reliable fire resistance of 90 minutes in accordance with DIN EN 14470-1.

US standards according to FM/UL, NFPA 30

- Maximum allowed temperature in the cabinet in acc. with FM/UL = 163 °C (325 °F).
- Temperature profile in accordance wit NFPA 251 in the open fire chambe.
- Example of the rising temperature in an FM/UL cabinet during the fire test, monitored with 1 thermometer.

European standard DIN EN 14470-1.

- Maximum allowed temperature in the cabinet in acc. with DIN EN $14470-1 = 200 \, ^{\circ}\text{C} (392 \, ^{\circ}\text{F})$.
- Temperature profile in accordance wit DIN EN 1363-1 in the closed fire chambe.
- Example of the rising temperature in a Type 90 cabinet during the fire test, monitore with 11 thermometers.

90 minutes of safety thanks to special construction

Utmost care is essential in the handling of hazardous substances. Our technology with maximum fire resistance helps you to achieve this. Thus, thanks to their special construction, our safety storage cabinets guarantee fire resistance of 90 minutes, type-tested according to DIN EN 14470-1.



Construction:

- » The doors and the outer carcass are made of powder-coated sheet steel.
- » The inner carcass and the inside of the doors are made of high-quality decor panels.
- » There is a special insulation between the inner and outer carcasses, so that the heat cannot penetrate into the cabinet interior in case of fire
- » In case of fire, doors, drawers and ventilation openings for air supply and exhaust air are aut matically closed and the door gaps as well as open joints are sealed by foam-forming gaskets.









Your benefits through DÜPERTHAL safety storage cabinets Type 90:

- » A chain reaction will be avoided in case of fire
- » Workers, the fire brigade, and rescue se vices will be protected.
- » Maximum fire protection for buildings and systems
- » Reduction of insurance contributions for fire protection is possible
- » Financial security, e.g. by reducing the risk of default of production and buildings.
- » Fulfilment of the requirements of risk management in accordance with ISO 9000 an ISO 14001.
- » Use of high-quality safety storage cabinets conserves resources and strengthens the image of your company.

Test criteria, protection objectives and minimum requirements

The three essential requirements of a safety storage cabinet in accordance with DIN EN 14470-1 are the minimisation of the risk of fire, the minimisation of fumes released into the work environment, and the retention of possible leakages. The test requirements of the laboratory furniture standard DIN EN 14727 also ensure a minimum of quality.



Extracts from DIN EN 14470-1

Ventilation

- » To prevent an explosive atmosphere, the ventilation must be effective directly above the bottom tray.
- » Ventilation openings for air supply and exhaust air must self-close when the temperature reaches 70 $^{\circ}$ C (158 $^{\circ}$ F).

Interior fittings

- » The bottom tray for the restraint of possible leakages must still be functional even after the fire resistance tes
- The shelves must be made of non-absorbent material, bear the permissible load over the duration of the fir and be at most 1.75 m (5.74 ft) above the floo.

Door technology

» Complete self-locking of the doors within a maximum of

- 20 seconds, optionally, an arrest system with temperature release at 50 °C (122 °F) is possible.
- Closing force between the main closing and opposite closing edge of the door must not exceed 100 Newtons.
- Each wing of the door must be operational with one hand.
- » If the doors are lockable, the locking device must not prevent self-closing in case of fire

Fire chamber test

Each cabinet model and size is type-tested in a fir chamber test in accordance with DIN EN 14470-1 Type 90.



Tested safety at a very high level including:















Extracts from DIN EN 14727

Static endurance test

Standing surfaces, e.g. storage shelves, are subject to a static load and impact tests and must not show any breakage or other damage.

Dynamic load test

» All components that move mechanically such as pull-out shelves, drawers and doors are tested with 50,000 cycles each. After the tests, the doors must close exactly and snap into place.





Tested safety at a very high level including

- Type-testing according to DIN EN 14470-1 by recognised test institutes (TÜV Süd, iBMB Braunschweig, ift Rosenheim).
- » TÜV-tested according to DIN EN 14727 (laboratory furniture standard).
- Type 90 classification in accordance with DI EN 14470-1.
- » GS/CE mark.
- » High Quality mark of approval for upper-level style, user-friendliness and increased lifetime.

>>

High-quality safety storage cabinets with maximum fire protectio





Your added advantage with DÜPERTHAL safety storage cabinets!

- » Maximum fire protection for your safety
 Maximum safety with Type 90 technology and automatic self-closing doors in case of fire
- » Upper-level style for your health Ventilation in every cabinet level with visual inspection of the butterfl valves, with a continuous earthing concept as a standard.
- Increased lifetime for your investment Continuous testing in accordance with DIN EN 14727, even 80,000 instead of 50,000 cycles in the dynamic load test.















1 Ventilation

Ventilation in **every cabinet level** and visual inspection of the venting cut-off flaps

2 Earthing (system)

To prevent ignition hazards through earthing in accordance with TRGS 727, the bearing surfaces are conductively connected as a standard to the equipotential bonding saddles.

3 Automatic closing of the doors

In case of fire, a the mocouple automatically triggers the uninterrupted closing system via the non-wearing safety feature (functional principle similar to the air bag system).

4 Base

A set-back base is the solution to ergonomic working and a safe position.

5 Lock arrangement

The ergonomic lock arrangement at handle level increases handling convenience.

6 Transport

Due to the base construction with removable base boards, the cabinet is accessible from all sides. As a result, simple transport, for example with a hand pallet truck, is possible.

Solved internally, confi med externally and independently

For DÜPERTHAL, quality is the main focus. Proof of this is provided by the quality marks of approval awarded to each of our safety storage cabinets, in recognition of our comprehensive quality management system as per DIN EN ISO 9001. One basic condition here is that, apart from our own in-house inspections, production of the safety storage cabinets is continuously monitored by external accredited test institutes.



Tested safety - Made in Germany

Tested safety at the highest level including

- Type-tested according to DIN EN 14470-1 as well as DIN EN 14470-2 by recognised test institutes (TÜV Süd, iBMB Braunschweig, ift Rosenheim).
- » TÜV testing according to DIN EN 14727 (laboratory furniture standard).
- » GS/CE mark.
- » High Quality mark of approval for upper-level style, user-friendliness and increased lifetime.







Explosion and health protection

In accordance with DIN EN 14470, safety storage cabinets must be provided with supply and exhaust air connection in order to prevent hazardous vapours escaping into the working area by means of a technical exhaust air system. In this case, the ventilation must be carried out to the open air in a safe place. Alternatively, ATEX-compliant (2014/34 / EU) recirculating air filter systems have been tried and tested in practice in safety storage cabinets for solvents. In accordance with TRGS 510, safety storage cabinets without industrial ventilation must be earthed due to the increased danger potential.







Your added advantage with industrial ventilation!

» Preventing an explosive atmosphere

A concentration dilution can already be achieved in the safety storage cabinet from a 10-fold air exchange per hour, so that an ex-zone around the cabinet is avoided. Please note that a lab bottle that has been opened once can already be a permanent source of emissions.

» Minimisation of health risks

With industrial ventilation, an increased risk of explosion as well as odour pollution can be

counteracted. In practice, it might be necessary to set a higher air exchange.

» Effectiveness / Functionality

The ventilation must be effective immediately above the bottom tray, since solvent vapours are often heavier than air. The laboratory directive also requires that the extraction is applied directly at the point of danger. Therefore, all DÜPERTHAL safety storage cabinets are equipped with ventilation at each cabinet level.

Our commitment to sustainable action

As an internationally operating family business with a company culture characterised by the community, we maintain clear values that characterise our daily thinking and action. In this way, we always have the big picture in mind in order to achieve satisfaction and success together with our customers and partners. This vision is committed to bringing the requirements of customers, the environment and society into harmony.



DÜPERTHAL Sustainability

Good economic sense, ecological long-term vision and social care - these are the ingredients for our daily thinking and action.





Economic aspects

The holistic view of the processes of our customers is deeply rooted in our corporate philosophy. This is how we create the basic conditions for optimised, safe and ergonomic work processes. Retaining the value of the products not only reduces costs. The increased lifetime of the safety storage cabinets also saves resources and saves energy for production.



Ecological aspects

DÜPERTHAL is committed to environmental protection and resource efficienc . We attach great importance to the commitment to use locally available raw materials. The short transport routes from suppliers in the surrounding area help to reduce emissions of harmful substances. At the same time, the use of recyclable materials relieves the environment during production.



Socio-cultural aspects

We promote and protect scientific research and development. With our products and se vices we increase safety in the workplace. We help our customers focus on the essentials - their work and the development of innovations that advance our society. Therefore, we do not limit ourselves to Germany. We document and certify our services in many countries and languages in order to implement our high standards on a comprehensive basis.

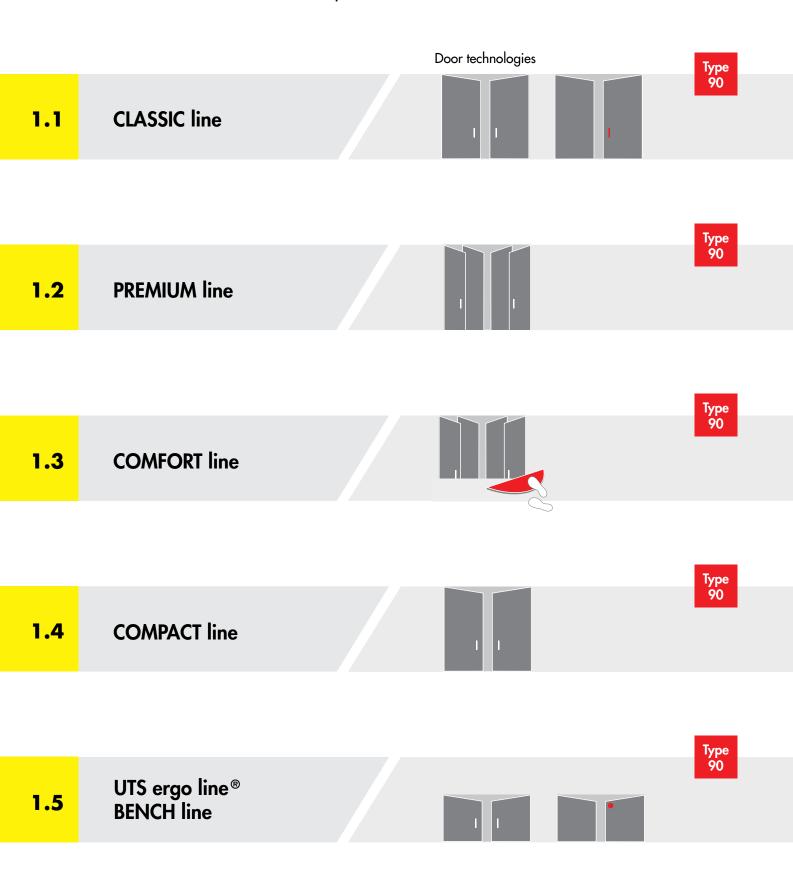
We continue the advancement of our company with the same diligence. For that is how we lay the the foundation stone for securing our future-oriented production sites and the preservation of valuable jobs in the region.

Passive storage of **flammable liquids**





Safety storage cabinets Type 90 for flammable liquids





with wing door technology, interior fittings bottom tray, optionally storage shelves or pull-out shelves.



from page

36

with **folding door technology**, interior fittings bottom tray, optionally storage shelves, pull-out shelves or vario shelves.



66

with folding door technology and pneumatic operation with foot pedal, interior fittings bottom tra , optionally storage shelves or vario shelves.



88

with **wing door technology**, interior fittings bottom tray with grating.



98

with wing door technology, interior fittings optionally bottom tray or automatically extending pull-out tray.



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Safety storage cabinets for non-flammable media or combined storage





For the combined storage of acids, lyes, toxins and flammable hazardous substances



from page

136

For the storage of aggressive liquids Interior fittings pull-out trays made of PE



152

For the storage of flammable and water-polluting substances.



166

Environmental cabinet – for the storage of water-polluting substances. **Toxic cabinet** – for the storage of hazardous substances.



170

with wing door technology, interior fitting bottom tray and shelves.



176

COMPACT line 1.4





Safety storage cabinets for passive storage of drums



COMPACT line!

» Health

Ventilation on each cabinet level provides optimised air exchange.

» Safety

In case of fire, a the mocouple automatically initiates the uninterrupted closing of the doors.

» Working safety

Equipotential bonding saddles as a standard on the cabinet help to prevent spark formation.

COMPACT line in detail



Drums can also be stored with safety and comfort near the work site. The COMPACT line by DÜPERTHAL, with 90 minutes of fire protection, allows sho t paths and efficient work even for the storage of large containers

1.4













1 Classical wing door technology

Easy-moving wing door technology is the correct solution for a multitude of possible applications.

2 Simple to load and unload

General concept for easy and ergonomic loading and unloading with an optional drum lifter and heavy load drawer.

3 Arrest system

The heavy load drawer is fitted with safety locking to prevent the uncontrolled activation of the heavy load drawer.

4 Base bezel

Base bezel easy to remove in all COMPACT XXL models. After the removal of the base with the drum lifter 1.31.045* roll-under.

5 Ventilation

Ventilation on every cabinet level and optical control option of the venting cut-off flaps

6 Self-closing in case of fire

Maximum safety with the automatic closing of the doors in case of fire

COMPACT line - Type 90

Discover the space-saving solution for the storage of large quantities of hazardous goods, the COMPACT line by DÜPERTHAL, with 90 minutes of fire protection. Experience the versatility and the comfo t offered by the COMPACT line.



COMPACT LL - V1



COMPACT LL - V2



COMPACT XXL - V3











Interior fittings:

- » Bottom tray optionally made of powder-coated sheet steel with galvanised grating or made of stainless steel, including grating.
- » Optional heavy load drawer with safety locking for 200 litre (52.83 gal) drums in light grey RAL 7035.

Construction:

- » Wing doors, powder-coated sheet steel.
- » Outer carcass, powder-coated sheet steel.
- » Inner carcass made of high-quality decor panels.

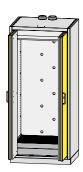
Colour standard version:

- » Wing doors in zinc yellow RAL 1018.
- » Carcass completely in light grey RAL 7035.
- » Base in slate grey RAL 7015.
- » Individual colours possible.

Zinc yellow RAL 1018 Pure white RAL 9010 Golden yellow Light grey **RAL 7035 RAL 1004**

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Ordering information





COMPACT LL – V1	COMPACT LL - V2		
for max. 60 litre (15.85 gal) drum/container	for max. 200 litre (52.83 gal) drum/container		

Ref. no.

with classical wing door technology		29-200977-011	29-200977-031	
'				
Details		1 bottom tray for 60 litre drum with grating and base	1 bottom tray for 200 litre drum with grating and base	
Dimensions				
Outer (width x depth x height)	[mm] [inch]	895 x 745 x 2080 35.23 x 29.33 x 81.89	895 x 745 x 2080 35.23 x 29.33 x 81.89	
Inner (width x depth x height)	[mm] [inch]	799 x 595 x 1535 31.46 x 23.43 x 60.43	799 x 595 x 1200 31.46 x 23.43 x 47.24	
Weight [kg] [lbs]		442 974.44	442 974.44	

Storage capacity/standing surface

(approx. data)

Size	[50/60 l] [13.21/15.85 gal]
	[200 l] [52.83 gal]

2	drums	2	drums
_		1	drum

Ref. no.

Additional interior fittings Material

Interior fitting	Sheet steel	
Storage shelf	Sheet steel	
Storage shelf	f Stainless steel	
Drum lifter for 60/200 (15.85/52.83 gal) drums/containers		
Heavy load drawer with safety locking for 200 litre (52.83 gal) drum, load bearing capacity 250 kg (551.16 lbs)		

on request	on request
29-50977-013	-
29-50977-213	-
see programme section 9	see programme section 9
-	29-80970-069

Other accessories on page 106. Other technical details and dimensions from page 108 onwards.











Tested safety at a very high level including:

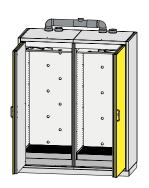
















COMPACT XXL - V1	COMPACT XXL - V2	COMPACT XXL - V3
for 60 litre (15.85 gal) drums	for 60/200 litre (15.85 /52.83 gal) drums	for 200 litre (52.83 gal) drum

29-201777-011	29-201777-033	29-201777-031
2 bottom trays each for 1x 60 litre drum with grating and base	1 bottom tray each for 1x 60 litre drum (left), 1 bottom tray for 1x 200 litre drum (right) each with grating and base	2 bottom trays each for 1x 200 litre drum with grating and base
1655 x 745 x 2080 35.23 x 29.33 x 81.89	1655 x 745 x 2080 35.23 x 29.33 x 81.89	1655 x 745 x 2080 35.23 x 29.33 x 81.89
2x 744 x 2x 595 x 1515 2x 29.29 x 2x 23.43 x 59.65	2x 744 x 2x 595 x L-1515 R-1155 2x 29.29 x 2x 23.43 x L-59.65 R-45.47	2x 744 x 2x 595 x 1515 2x 29.29 x 2x 23.43 x 59.65
005	005	005
895 1973.14	895 1973.14	895 1973.14

2 drums	2	drums	2	drums
-	1	drum	1	drum

on request	on request	on request
29-51777-013	29-51777-013	-
29-51777-213	29-51777-213	-
see programme section 9	see programme section 9	see programme section 9
-	29-80970-069	29-80970-069

Accessories - varied and flexible

Adapt the cabinets of the COMPACT line to your requirements even better with the large variety of accessories offered. To make your workplace more efficient and safe .



Exhaust air systemsMonitoring exhaust air systems help prevent explosion risks in work areas, see programme section 7.



Heavy load drawer with safety locking for 200 litre (52.83 gal) drums in light grey RAL 7035.



Drum lifter
for picking up and transporting
200 I (52.83 gal) drums. Ideally
in connection with heavy load
drawer, see programme section 9.



Pipe penetration
Safety storage cabinets can be adapted to your requirements by incorporating additional penetrations for pipes, hoses and cables.



Platform liftIdeal for lifting and transporting of drums and canisters when used in conjunction with a transport unit with a roller system.



Roller system as insertion aid, with arrest system for easy intake of drums and canisters.



Cabi2Net for central control of work processes. Configuration according to individual requirements.



Absorber cloths
Absorber cloths are specially
designed for use with chemicals
and are thus ideal for picking up
spilled hazardous substances.



Accessories	Ref. no.
Cabi2Net	on request
Pipe penetration (reclosable)	on request
Pipe penetration	29-70000-048
Red-Box	2.233.04

Optional extras

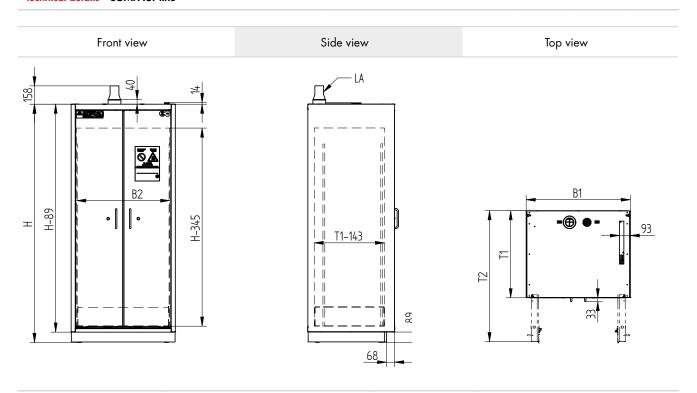
Absorber

Drum lifter with quick lift, load bearing capacity 300 kg (661.39 lbs) for 200 litre (52.83 gal) drum
Platform lift, load bearing capacity 160 kg (352.74 lbs)
Roller system as an insertion aid
Earthing cable with crocodile clip
Exhaust air system or ventilator
Safety container

1.31.045*	
1.31.050	
1.31.053	
1.806.63	
see programme section 7 or at www.dueperthal.com	
see programme section 8 or at www.dueperthal.com	
see programme section 10 or at www.dueperthal.com	

Tech specs COMPACT line – Drum cabinets

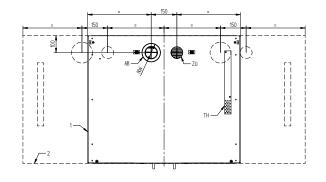
Technical details - COMPACT line



Model siz	ze	ML	ш	XXL
Н	[mm]	2045	2045	2045
	[inch]	80.51	80.51	80.51
B1	[mm]	594	894	1650
	[inch]	23.39	35.2	65
B2	[mm]	498	798	2x 746
	[inch]	19.61	31.1	2x 29.37
TI	[mm]	747	747	747
	[inch]	29.21	29.21	29.21
T2	[mm]	1235	1125	1483
	[inch]	48.62	44.29	58.39
Doors		1	2	2

LA: Connection socket NW 75 (2.95)

Top view - more details



1: Cabinet size ML | LL

2: Cabinet size XXL

NW: 110 (4.33) with adapter 75 (2.95)

AB: Exhaust air connection

ZU: Air supply TH: Thermocouple

'

Tech specs COMPACT line – Drum cabinets

Technical details - COMPACT line

Front view Side view

Model size		ML	LL - V1	LL - V2	XXL - V1 (CP)	XXL - V2 (CP)	XXL - V3 (CP)
В	[mm]	479	776	776	2x 724	2x 724	2x 724
	[inch]	18.86	30.55	30.55	2x 28.5	2x 28.5	2x 28.5
LB	[mm]	374	674	674	2x 684	2x 684	2x 684
	[inch]	14.72	26.54	26.54	2x 26.93	2x 26.93	2x 26.93
Н	[mm]	1 <i>5</i> 40	1540	1180	1540	1180	1540 1180
	[inch]	60.63	60.63	46.46	60.63	46.46	60.63 46.46
Т	[mm]	594	594	594	594	594	594
	[inch]	23.39	23.39	23.39	23.39	23.39	23.39
М	[kg]	250	250	250	250	250	250
	[lbs]	551.16	551.16	551.16	551.16	551.16	551.16
L	[l]	60	60	200	60	200	60 200
	[gal]	15.85	15.85	52.83	15.85	52.83	15.85 52.83
V	[l]	66	66	220	66	220	66 220
	[gal]	17.44	17.44	58.12	17.44	58.12	17.44 58.12
Tare weight	[kg]	325	400	424	820	866	844
	[lbs]	716.5	881.85	934.76	1807.8	1909.2	1860.7
Max. additional load	[kg]	360	360	360	2x 360	2x 360	2x 360
	[lbs]	793.66	793.66	793.66	2x 793.66	2x 793.66	2x 793.66

- $B{:} \qquad \text{Inner width of standing surface, in millimetres} \\$
- LB: Clear width (doors), in millimetres
- H: Inner height (maximum container height), in millimetres
- T: Inner depth of standing surface, in millimetres
- $\stackrel{\cdot}{\mathsf{M}}$ Load bearing capacity per storage shelf (uniformly distributed), in kilograms
- L: Maximum volume of the largest individual container, in litres
- V: Max. collection volume, in litres
- CP: (with) centre partition wall

Comfort Service Agreement

We thank you for the trust you have shown in purchasing DÜPERTHAL safety storage cabinets. Please note that according to BetrSichV, TRGS 526, TRGS 510, ArbStättV and the maintenance interval indicated by the manufacturer, all safety-relevant features have to be checked by a qualified person once a in accordance with TRBS 1203. In order to meet these requirements and to guarantee the safe function of your safety storage cabinets, we recommend that the cabinets should be checked once a year by our service technicians.



Your economic advantage

- » 5-year manufacturer's guarantee. * *
- » First inspection is free of charge.
- » Cost saving with regard to repairs, time expenditure is not billed separately (included in lump sum).
- » Travel expenses are included in the lump sum.
- » Guarantee systematic monitoring of your safety equipment for audits. We remind you about upcoming deadlines.

Your technical advantage

- » Your cabinet's protective function is constantly maintained.
- » Support from trained and certified se vice technicians.
- » Inspection of safety storage cabinets and exhaust air filter systems.



Preventive maintenance.
Sustainable maintenance.
Our service sets new standards.

Your contact person - Service

Phone: +49 6188 9139-166 E-mail: service@dueperthal.com



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DÜPERTHAL Comfort* service agreement



Customer:
(please specify exact address and phone no.)

Service agreement no.:

between the recipient as the customer and the DÜPERTHAL SICHERHEITSTECHNIK GmbH & Co. KG Frankenstrasse 3 63791 Karlstein, Germany

In Germany, the annual inspection of safety storage cabinets including proof of the test is legally required by the BetrSichV, TRGS 526, TRGS 510, and the ArbStättV legislation. Employers are responsible for implementation.

The DÜPERTHAL Comfort* Service Agreement includes the following services:

- » Annual safety inspection and maintenance
- » Test certificate and test labe
- » Time expenditure for repairs (spare parts are billed separately)
- » Travel expenses
- » 5-vear manufacturer's augrantee * *



o your manor	acioner o godinamos	
Number of (please enter quantit	safety storage cabinets:	Lump sum per safety storage cabinet/year:
1		
2-3		
4 or more		
Number of (please enter quantit	exhaust air filter systems:	Lump sum per exhaust air filter system/year:
1		
2-3		
4 or more		
'	, , ,	arts, such as fire protection and air seals, fusible links, ve - as insulation. Furthermore, all mechanical components are

checked to ensure that they are working properly and an exhaust air measurement is taken.

Deviations from this agreement are only valid if they have been agreed on in writing by both parties to the contract. Otherwise the service terms and conditions (supplement) must be complied with.

Karlstein,	
Date	Place / Date
DÜPERTHAL SICHERHEITSTECHNIK GmbH & Co. KG	CLIENT
Date / Signature / Company stamp	Date / Signature / Company stamp

^{*} Only valid for cabinets not older than 2 years (from delivery date). ** Manufacturer's guarantee does not apply to cabinets of other manufacturers.

Delivery checklist for safety storage cabinets

Simply complete and send back by e-mail to info@dueperthal.com

This checklist is part of the order. We would like to deliver and align your safety storage cabinets at the place of use. To ensure a timely and smooth delivery at the preferred installation location / place of use without complications, we need you to fill in the information below. If information is incomplete or received too late, substantial additional costs may arise, which we have to pass on to you. Please take notice of the delivery date mentioned in the order confirmation.

1. Order data	3. Access route/transport route outside the
Customer	building
	3.1 Is access possible with a 26 t truck, min. dimensions $3 \times 12 \times 4$ n (W \times L \times H)?
Customer no.:	☐ Yes, road width approx. W x H m ☐ no
Company:	☐ res, road widin approx. vvx ⊓ m ☐ nc
	☐ Roofing – max. clearance height only r
Post code/city:	☐ Bridge – max. clearance heightn
Name:	
Dlane	☐ Blocked, because
Phone:	☐ Route not suitable, because
Department:	3.2 Distance to the building?
PO no:	<u> </u>
PO IIO:	3.3 Road surface?
Order no:	3.4 Pedestrian zone ☐ yes ☐ no. Delivery time from to
Delivery address	3.5 At ground level □ yes □ no
	3.5 Steps into the building □ yes, steps □ no
Company:	3.6 Loading ramp available ☐ yes ☐ no
Contact person on site:	3.7 Can the truck bridge the steps by means of its rear lifting platform?
Phone:	3.8 Parking facilities
Street:	3.9 Forklift truck & driver available
	3.10 Best access route by road?
Post code/city:	error best decess todie by road:
Cabinet model:	4. Transport route inside the building
Dimensions: (W x D x H in mm)	4.1 Is the load bearing capacity of the transport route sufficient for the weight listed above? □ yes □ no
Weight: (in kg)	4.2 Installation location on ground floor □ yes □ no
2. Installation location and delivery date	4.3 Installation location in basement/on upper floor □yes, floo
2.1 When will the rooms/	5. Lift
transport routes be ready for use? (This includes all lifts, staircases, corridors on the way)	5.1 Lift available?
2.2 Delivery possible from to	5.2 Lift usable?
2.3 Installation location (building, room):	5.3 Load bearing capacity in kg
2.4 Person to be notified by phone:	5.4 Usable inner carcass (W x D x H)
2.5 Phone:	5.5 Door clearance dimensions (W x H)



5.1	Transport by stairs?	!				
	□ yes,		□no			
	Note: In case of tra and delivery above for additional perso borne by the custon	e groun onnel, e	d floor, any equipment,	/ additiona load crane	ıl costs arisinç e, etc. will be	9
6.2	What kind of stairs	are the	ere on site?	Please mo	ark with a cro	ss!
	☐ Version 1					
	A = Stair width	=	cm		. 13	J
	B = Landing depth	=	cm	. (/.	D B	
	C = Landing width	=	cm	الزازان	D _{I.B.}	ı
	D = Lintel height	=	cm			/
	No. of steps	=		. —		
	Step depth	=	cm			
	Step height	=	cm			
	☐ Version 2					
	A = Stair width		cm		В	
	B = Landing depth	=	cm			_
	C = Landing width	=	cm		7//	//c
	No. of steps	=		//-		
	Step depth	=	cm			
	Step height	=	cm			
	□ Version 3					
	A = Stair width		cm	1 /2	C	
	B = Landing depth			7		В
	C = Landing width	=	cm			7
	No. of steps	=				É
	Step depth	=	cm			=======================================
	Step height	=	cm			
	When giving the c	limensi	ons, pleas	e consider	all obstruc-	
6.3	Do all stairs along marked above?					on
	□ yes □ no. Diffe	erences:				
6.4	Other stairs:					
	Description:					
Sketc	:h					

please arrange with us a transport route inspection by our carrier in

good time!

6.6	Number of stairs in total?										
6.7	Type of stair	s (e.g. concrete,	wood, steel, etc	:.)ș							
	To the building										
	Inside the building										
	Note: Rubber edges on steps may be damaged; we cannot accept liability for this.										
6.8	Protruding edges □ yes cm overhang □ no										
6.9	Can each ir cabinet's we		e loaded with the	□ yes	□no						
7.	Doors										
7.1	How many	doors are there	along the transpo	ort route?	?						
7.2	Door dimensions	Clear height [cm]	Clear width [cm]	Space	e available d [m]						
	Door 1										
	Door 2										
	Door 3										
	Door 4										
	Door 5										
		nents for th ceiling loc	e installation	on							

Please take into account the allowable ceiling/floor load at the installation location for all safety storage cabinets. In particular, the SUPREME plus XL and XXL safety cabinets for pressurised gas cylinders may not be installed without consulting a structural engineer first if the ceiling load is less than 600 kg/m².

8.1 The surface must be level and flat and be able to bear the weight of the safety cabinet when fully loaded. Is the load bearing capacity of the installation location sufficient for the weight listed above?
yes \(\sigma \) no

8.2 Is the floor at the installation location free of cables and underfloor heating?☐ yes ☐ no

Note: Furthermore, the installation location must ensure that the safety storage cabinet

- cannot be damaged by vehicles.
- is not exposed to any direct or indirect heat source.
- is protected against moisture.
- \bullet is not exposed to an operating temperature below-5 °C or above + 45 °C.

The lump sum price quoted for transport is subject to the condition that the installation location (place of use) is freely accessible and it is possible to complete the transport on site. The customer assures that they are aware of the dimensions of the safety storage cabinets to be delivered and that their information regarding the conditions on site at the place of delivery is completely accurate. Any additional costs will be borne by the customer. These may arise from differences between the information given above and the actual situation on site and consequent further action necessary to be taken, such as exceeding the delivery time and/or interventions in the building fabric (widening of door openings, dismantling and reassembly of banisters, etc.) or the installation of a crane to bring the safety storage cabinet to the place requested by the customer. If the transport company refuses transport for reasons of risk and the customer nevertheless insists on installation, all of the customer's rights of recourse are cancelled should the mentioned risks materialise, unless a case of deliberate intent or gross negligence exists.

Date / Signature / Company stamp

Intelligent technology – Great service

There is more to safety than simply buying a safety storage cabinet. This is why we offer you our certified knowledge, comprehensive service and expertise – supporting you before, during and especially after your decision to buy a DÜPERTHAL safety storage cabinet. For a reassuring feeling of having done everything within your power.



Safety means responsibility.

DÜPERTHAL is one of the leading manufacturers of safety storage cabinets. There are good reasons for choosing DÜPERTHAL safety technology. Find out more about us and our entire product range on **www.dueperthal.com**.

We look forward to your call!

Mondays to Thursdays from 8.00 am to 5.00 pm Fridays from 8.00 am to 4.00 pm

DÜPERTHAL Sicherheitstechnik GmbH & Co. KG Frankenstrasse 3 | 63791 Karlstein | Germany



Commonly used measurements

[rounded]

Volume / Liquid measure equivalents

Containers	&	Drum	Sizes

[ounce]	4	8	16	32		[pint]	1	[quart]	1	2	[gallc	on]	1	1.32	1 ½	2
[litre]	0.12	0.24	0.5	1		•	0.5			1	2			4	5	6	7.5
[gallon]	2 ½	2.6	4	3	3 ½	4	5	6 6	.6		8	10	12	15.	9 (30	55
[litre]	9.5	10)	11	13	15	19	23	25	3	30	38	45	60) 1	10	200

[mm]	6	10	13	19	38	51
[inch]	1/4	3/8	1/2	3/4	1 1/2	2

Sheet Steel Sizes

[mm]	0.5	1	1.5	1.9
[gauge steel]	24	18	16	14

Weight Equivalents

[pounds] 60 132 165 350 600 1000 1500	[kg]	27	60	75	159	272	454	680
	[pounds]	60	132	165	350	600	1000	1500

Pressure and Temperature

[psig] 3 5 [Fahre	[bar]	0.2	0.35	[Celci
	[psig]	3	5	[Fahre

[Fahrenheit]	34°	50°	59°	68°	122°	158°	165°	325°	392°
[Celcius]	1°	10°	15°	20°	50°	70 °	74 °	163°	200°



Conversion Chart

Fahrenheit to Celcius:

 $(^{\circ}F - 32) \times 0.5555 = ^{\circ}C$

Inches to Millimeters:

Multiply by 25.4

Inches to Centimeters:

Multiply by 2.54

Feet to Meters:

Multiply by 0.3048

Feet to Centimeters:

Multiply by 30.48

Feet to Millimeters:

Multiply by 304.8

Ounces to Grams:

Multiply by 28.35

Pounds to Kilograms:

Multiply by 0.4536

Gallons to Litres:

Multiply by 3.785



DPVT B.V. DUPA Veiligheidstechniek

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