CEMWOOD

mineral coated wood chips

Stable and secure like a bound fill.
Just faster, more natural, more sustainable.

HIGHLY RESISTANT DRY FILLS

As a strong foundation for professional floors

Products ›› Technical data ›› Range

August 2019

safe for building biology – VOC tested

MINERAL COATED WOOD CHIPS

Sustainable, durable, natural.

We make the very best use of wood as a building material: While retaining the excellent thermal insulation properties and the low weight, we have fully compensated for the weaknesses of the material in terms of durability and resistance. What is more, we increase the compressive grain strength and considerably enhance the structural physical properties of the wood. The mineral chips achieve improved fire safety values, and our building materials have been tested and found to be “safe for building biology” in relation to VOC (volatile organic components).

How is this done? In an environmentally friendly, sustainable process, we coat wood chips without using any chemical additives. The mineral coat, which is just a few micrometres thick, effectively protects the wood cores from pests, rot, mould and fungal attack. Thus our patented process enables minerals to enter the wood core. The mineralisation reduces the water absorption – the swelling and shrinkage that is typical of wood is thus avoided.

RESPONSIBILITY & ENVIRONMENTAL PROTECTION

INDUSTRY AWARD

Our many years of research and our high standards have been recognised: The levelling fill CW 2000 received the industry award

» **BEST OF 2012**

Our products are CO_2-binding when used as they are a renewable resource. Only wood from native forests is processed. In production we deliberately do not use any chemical additives. Our fills do not produce any evaporation and ensure a pleasant and healthy room climate. The thermal insulation parameters help to save energy in the home.

CEMWOOD-DRY FILLS

Positionally stable and risk-free like bound fills. Plus quick to install.

The dry fills obtained from mineralised wood chips are classified after DIN 18560-2 like a bound fill. The positional stability – resulting from the clearly defined chip form – means that they can be walked on immediately after the leveling process. The CEMWOOD dry fills are in no way inferior to the compound fills in terms of stability and reduce the level of subsequent settlement compared to conventional bound fills. This enables risk-free construction.

THE FINE ONE:
CW 1000

Levelling and cavity fill
Fill height:
10 - 60 mm

The fine mineralisation of the very small chips makes low levelling areas a supreme discipline for the CW 1000 levelling fill. But as a cavity fill, it is also adept at filling shafts, ducts and wooden beam ceilings. Like all product lines, it can be installed quickly without using any water or binder.

THE STRONG ONE:
CW 2000

Levelling fill
Fill height:
10 - 200 mm

The strong mineralisation of the slightly coarser fill enables fill heights of up to 200 mm. CW 2000 is ideally suitable for large irregularities, wooden beam ceilings, vaults and much more besides. CW 2000 has unbeatable positional stability and can therefore be walked on immediately. The dry fill is highly resilient, absorbs a high degree of impact sound and is thermally insulat-

THE EXTRA-STRONG ONE:
CW 3000

Special fill for sports floors
Fill height:
10 - 80 mm

CW 3000 is developed specifically for sports floors subject to high dynamic loads. The extra-strong mineralisation increases the compressive grain strength and makes the fill highly durable. The special mixture contains various grain sizes with a fraction of “support chips”. These fill in the gaps and produce an even higher level of durability.

Classified like "compound" form in line with DIN 18560-2 TESTED QUALITYT

CW 1000 – FOR LOW HEIGHTS

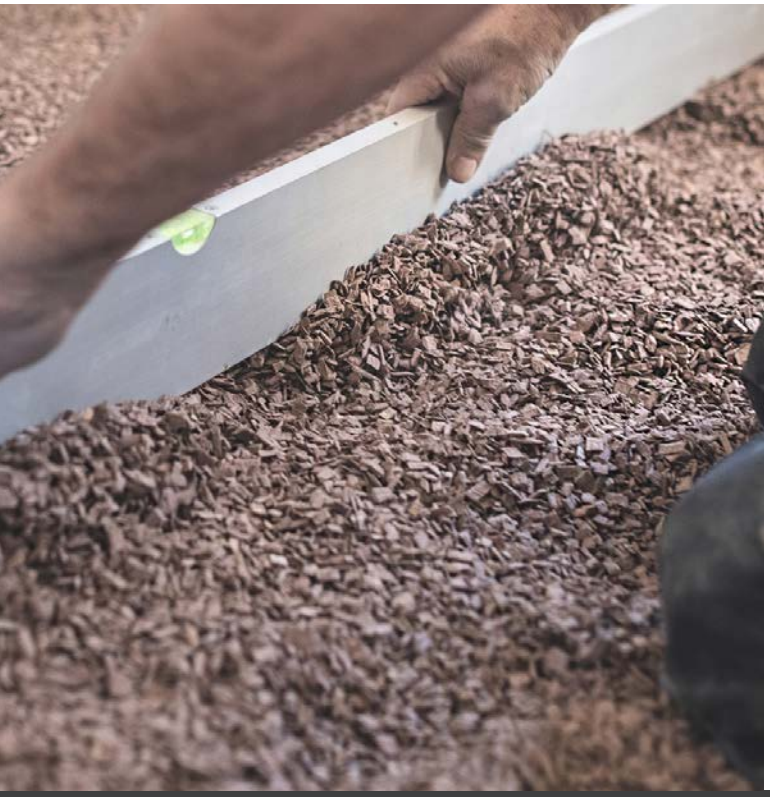
The fine one: installation height of 10 mm to 60 mm

AREAS OF APPLICATION

- **Levelling fill (10-60 mm fill height)**
- **Under all wet and dry screed systems**
- **Cavity fill, e.g. in wooden beam ceilings**
- **Installation ducts**

PRODUCT PROPERTIES

- Positionally stable like bound form,
- Absorbs impact sound and is thermally insulating
- Water absorption: no swelling or shrinkage
- Resistant to mould, fungi and rot
- Ecological product
- Structurally high-quality



ADVANTAGES DURING PROCESSING

- Quick processing without water / binder
- Can be walked on immediately after the fill is applied
- Reliably fills in even the smallest cavities
- No formation of pockets / flaws
- Low weight, low dust formation

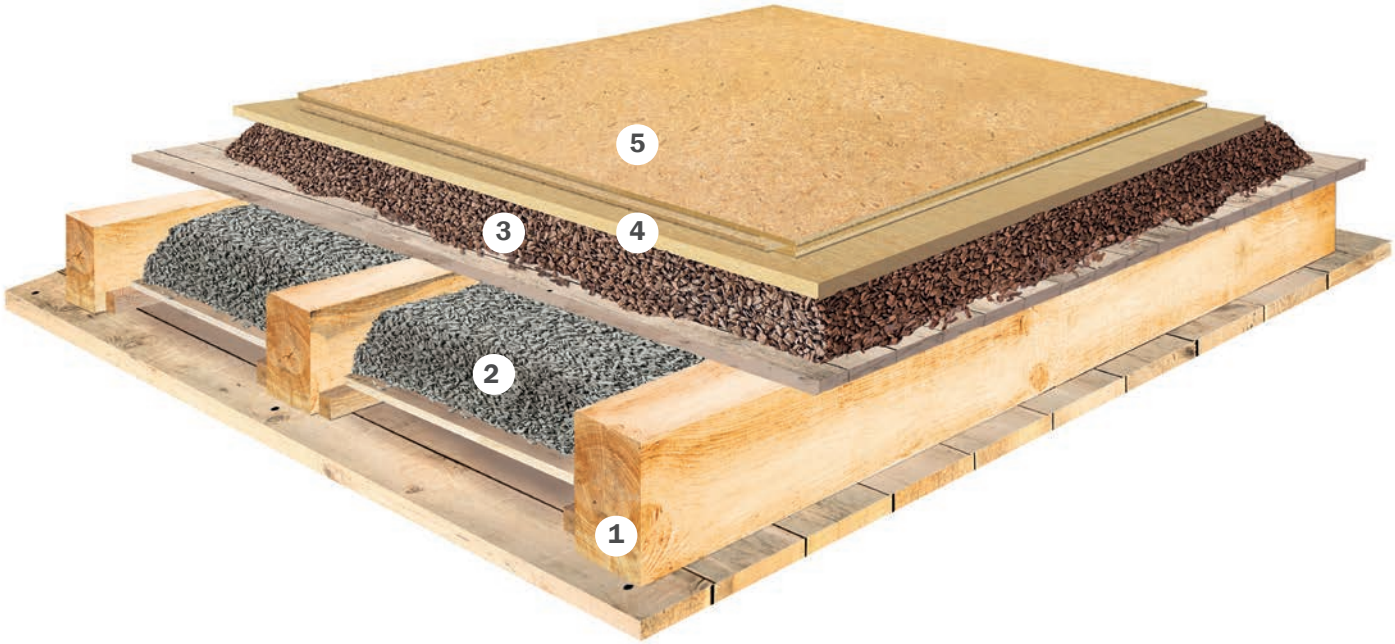
BENEFITS FOR THE CLIENT

- **Shorter build time**
- **Lower building costs**
- **Active contribution to protecting the environment**
- **Safety thanks to risk-free construction**
- **Impact sound insulation enhances quality of life**

APPLY, LEVEL, DONE. CW 1000 is applied without any water or binder and, thanks to its proven positional stability, it can be walked on immediately after it has been leveled.

CW 1000 » APPLICATIONS

Cavity fill in wooden beam ceilings



STRUCTURE

1. Existing wooden beam ceiling
2. CW 1000 cavity fill
3. CW 2000 levelling fill
4. Load-distributing layer
   (here: fibreboard)
5. Floor covering

PERFECT FOR RENOVATING OLD BUILDINGS

CW 1000 can be applied quickly and without much dust, fills the cavities reliably, absorbs impact sound and is thermally insulating.

CW 2000 has a levelling effect as the foundation for the floor structure and also increases the impact-sound insulation.

For timber construction, new buildings, renovation of old buildings, professionals & DIY builders

CW 1000 » APPLICATIONS

Levelling fill for low levelling areas

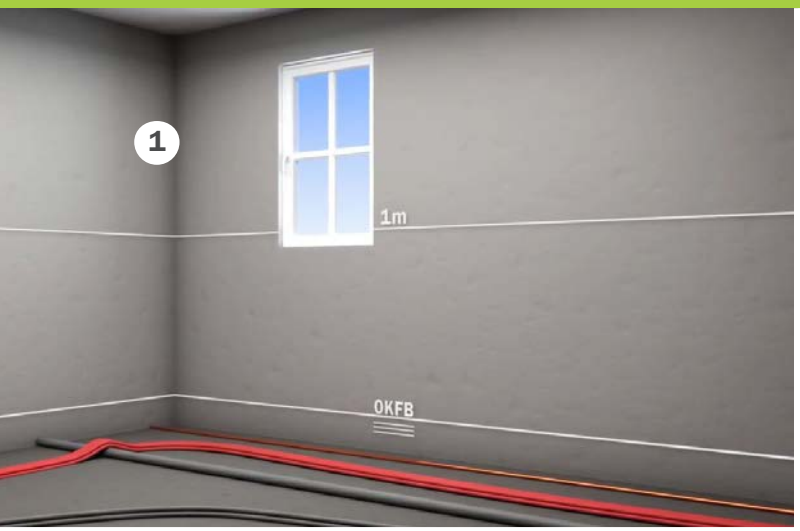
STRUCTURE

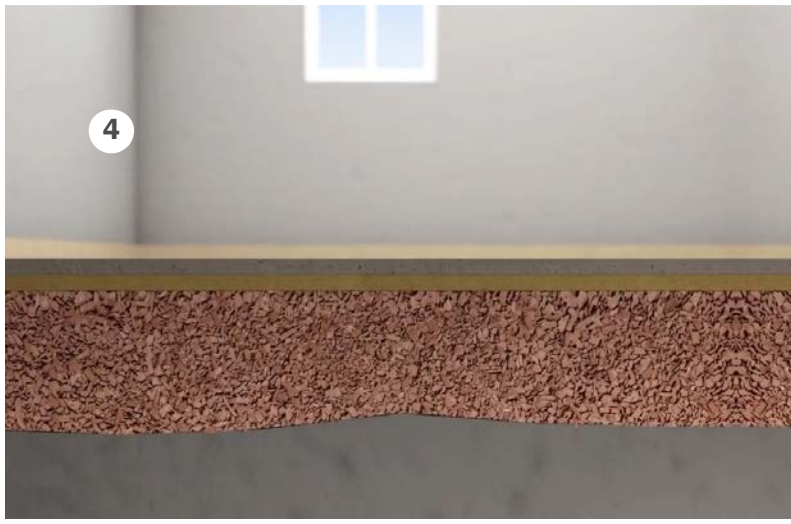
1. CW 1000 levelling fill
2. Load-distributing layer (here: fibreboard)
3. Floor covering

QUICK AND RELIABLE

CW 1000 is the ideal fill for uneven floors and low levelling areas. It reliably fills small gaps and can be applied quickly, dry and without any fuss. The fill can be walked on immediately after smoothing, thus saving time on the next operation.

7 | Installation: quick and straightforward





COULD NOT BE QUICKER

Apply, level, that's it.

PLEASE NOTE: The pictures illustrate the method of working and do not represent instructions for laying. These can be found with hints to look out for on the product packaging and on our homepage.
www.cemwood.de

APPLIES TO CW 1000, CW 2000 and CW 3000

1. Establish heights
2. if necessary lay cables or other feeding lines
3. infeed the material
4. level the material
5. Fill can be walked on immediately. Lay the load-distributing layer (here: fibreboard)
6. Floor structure (here: Lithowood low-temperature flooring system)

For timber construction, new buildings, renovation of old buildings, professionals & DIY builders

CW 2000 – IT IS VERY STRONG

The strong one: Installation height of 10 mm to 200 mm

AREAS OF APPLICATION

- **Levelling fill**
- **On wooden beam ceilings**
- **Solid concrete and solid wooden ceilings**
- **Beamed ceilings**
- **On vaults**

ADVANTAGES DURING PROCESSING

- Low weight
- Quick processing without water / binder
- Can be walked on immediately after the fill is applied
- Reduced dust formation
- Efficient thanks to avoidance of waste material

PRODUCT PROPERTIES

- Strong mineralisation,
- Highly resilient
- Positionally stable like compound form, prevented from migrating
- Thermally insulating and impact-sound-absorbing
- Resistant to pests, fungal attack and rot
- Water absorption: no swelling or shrinkage

BENEFITS FOR THE CLIENT

- **Shorter build time, lower building costs**
- **Safety thanks to risk-free construction**
- **Impact sound insulation enhances quality of life**
- **Active contribution towards environmental protection**

UNREAL TOUGHNESS: CW 2000

CW 2000: the first dry fill that is as stable as a compound fill. The interlocking of the chips makes the fill extremely positionally stable. CW 2000 allows you to build safely and risk-free without any subsequent settling or cracks. However, in terms of the processing time it is far superior to a compound fill.

CW 2000 » APPLICATIONS

Levelling fill with high fill heights

POSITIONALLY STABLE UP TO 200 mm: CW 2000's unique positional stability allows fill heights of up to 200 mm. There is no need to level out any irregularities and feeding lines can easily be embedded.

STRUCTURE (TOP)

1. Concrete floor with irregularities
2. CW 2000 levelling fill
3. Load-distributing layer (here: fibreboard)
4. Floor covering

STRUCTURE (BOTTOM)

1. ceiling elements
2. Trickle protection
3. CW 2000 levellimg fill
4. Load-distributing layer (here: fibreboard)
5. Floor covering (here: laminate)

CW 2000 » APPLICATIONS

Levelling fill in wooden beam ceilings

Structure

1. Wooden beam ceiling
2. CW 1000 cavity fill
3. CW 2000 levelling fill
4. Load-distributing layer (here: wood fibre board)
5. Floor covering

Perfect for renovating old buildings

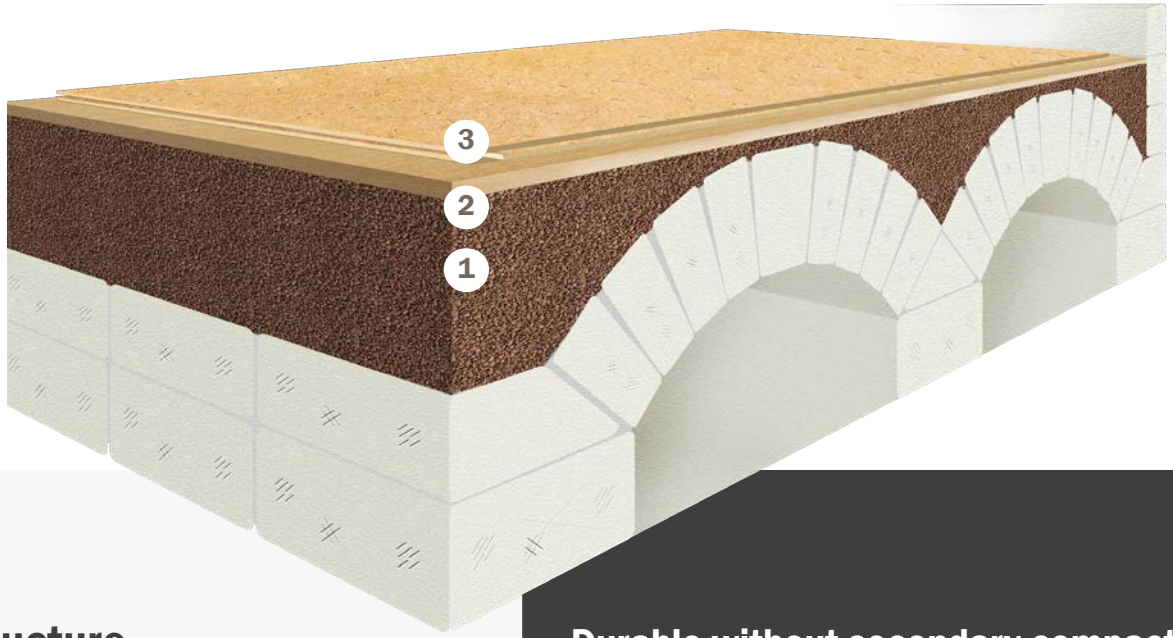
In this application example, CW 2000 can be used as a cavity fill and levelling fill in one operation. The dry fill delivers increased impact-sound absorption and thermal insulation and ensures a fully high-end floor.

*) Only possible with sufficiently reinforced subfloors

11 | CW 2000: Example of vaulted ceiling

CW 2000 » APPLICATIONS

Levelling fill on beamed and vaulted ceilings



Structure

1. CW 2000 levelling fill
2. Load-distributing layer (here: fibreboard)
3. Floor covering

Durable without secondary compaction

200 mm maximum fill height: This strength of CW 2000 is particularly evident in the case of beamed and vaulted ceilings. Nevertheless, the dry fill CW 2000 is as durable as a compound fill even without any needed compression or additional binders.

For timber construction, new buildings, renovation of old buildings, professionals & DIY builders

CW 3000 SPORT

The extra-strong one: Made for action

AREA OF APPLICATION

» As a special levelling fill under sports floors subject to dynamic and regular impacts

PRODUCT PROPERTIES

- Extra-strong mineralisation
- High compressive grain strength
- Stable
- Highly resilient
- Classified after DIN 18560-2 bound form
- Water absorption: no swelling or shrinkage
- Resistant to pests, fungal attack and rot
- Sustainable and ecological

ADVANTAGES DURING PROCESSING

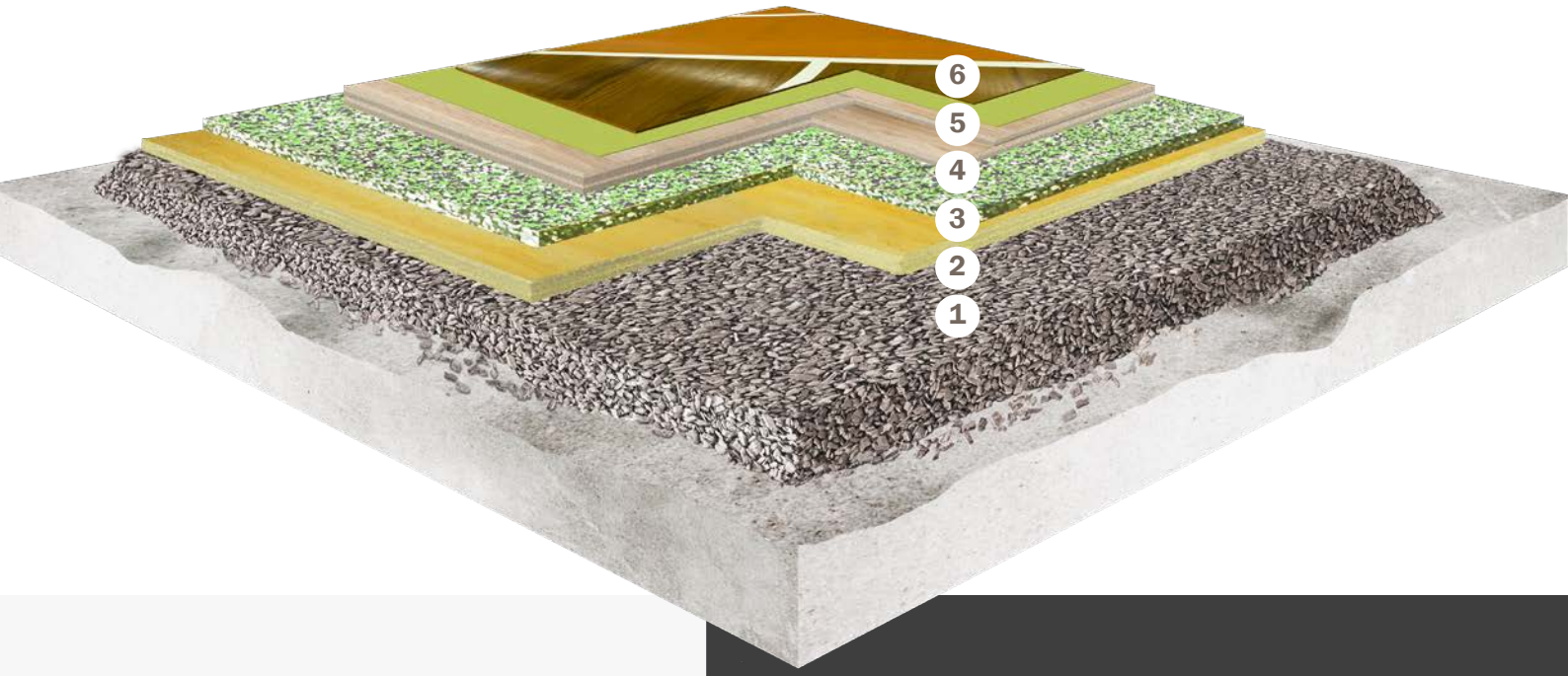
- Quick processing without water / binder
- No drying times
- Can be walked on immediately after the fill is applied
- Low weight
- Reduced dust formation

BENEFITS FOR THE CLIENT

The extra-strong mineralisation and the extremely high resilience prevent subsequent settling and damage in floors that are subject to extremely high dynamic impacts. CW 3000 enables risk-free and safe construction.

CW 3000 » APPLICATIONS

Special fill for sports floors



STRUCTURE

1. CW 3000 levelling fill
2. Thermal insulation
3. PUR composite foam
4. Birch plywood board
5. Seamless PUR coating
6. Sports floor covering

PARTICULARLY STABLE SETTLING

The special fill for sports floors is particular stable. It can be applied quickly and easily without the use of water or binders and without any secondary compression. Despite high impacts, the extra-strong mineralisation and the wooden structure prevent the chips from crumbling.

TECHNICAL DATA

Overview

PROPERTIES		» CW 1000	» CW 2000	» CW 3000
Chip size	mm	1 - 5	4 - 8	5 - 10
Fire behaviour	Class	Bfl-s1	Bfl-s1	Bfl-s1
Thermal conductivity	W/mK	0.060	0.075	0.085
Compressive grain strength	N/mm2	8.2	12.6	15.4
Bulk density	kg/m³	Approx. 320	Approx. 360	Approx. 370
Installation height	mm	10 - 60	10 - 200	10 - 80
Packaging unit	Litres	50	50	50
Uniform load distribution per cm	kg/m²	3.2	3.6	3.7
Material requirement per cm of	l/m2	10	10	10

WE HAVE MORE TO OFFER

PLEASE CONTACT US AT: Tel.: +49 (0)391 810 560 0

OUR PORTFOLIO

CW 1000 - THE FINE ONE

CW 2000 - THE STRONG ONE

CW 3000 - THE EXTRA-STRONG ONE

and:

GALA DEKO STIXX in different variations for professional landscape designers or hobby gardeners.

SENTINEL HAUS
INSTITUT

PUBLISHER AND MANUFACTURER

CEMWOOD GmbH
Glindenberger Weg 13
39126 Magdeburg
Tel.: +49 (0)391 810 560 0
Fax: +49 (0)391 810 560 29
info@cemwood.de .
www.cemwood.de

DESIGN AND IMPLEMENTATION

DREIFACH Agentur für Kommunikation
www.dreifach-kommunikation.de