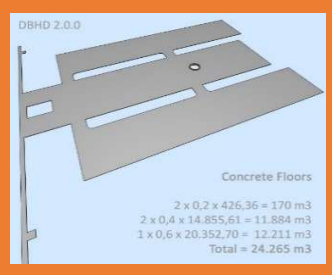
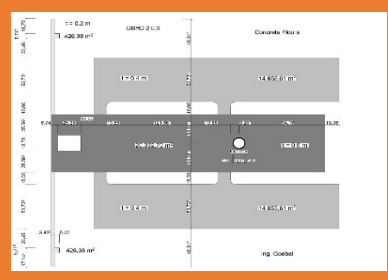




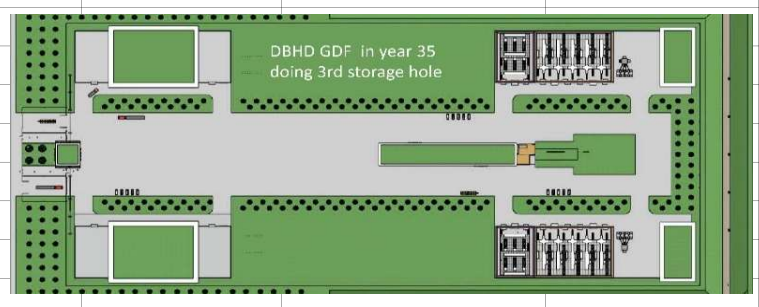
Concrete Floors	Total	**24.265 m3**	please quote	for a Building Site	in your country

Welcome to DBHD 2.0.0 calculation - mid 2021

This is a **request for quotes** for construction work

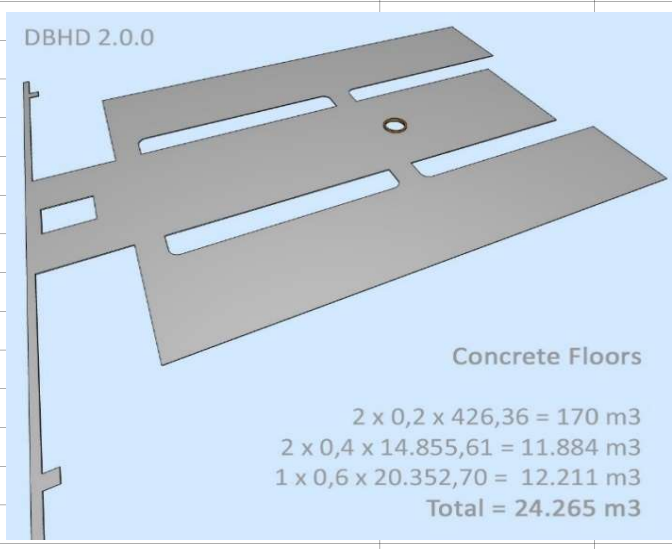
send your quotes - you quote what is shown in the detail pictures :

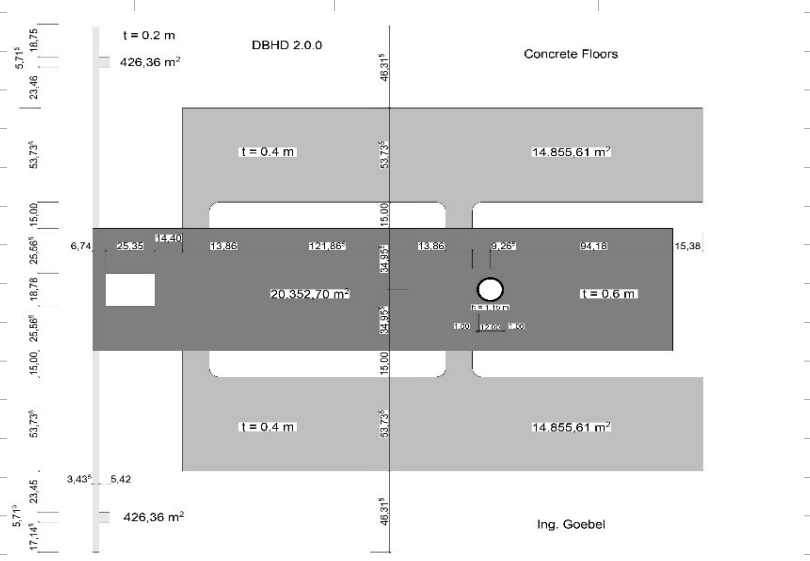
info@ing-goebel.com **and** Postfach 12 06 29, 53048 Bonn, Germany



last edit 28.04.2021
Table Version 13
first complete calculation

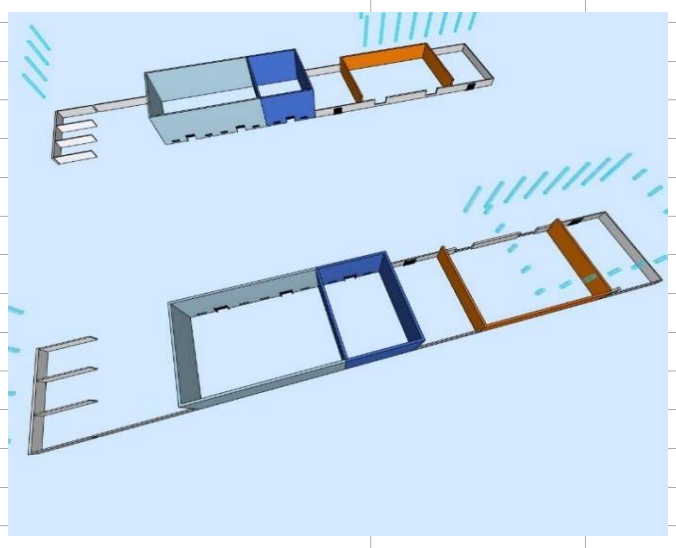
1.	**Concrete Floors**	t = 0,2 m	170 m3		according to given measurement
		t = 0,4 m	11.884 m3		water runs to the trees
		t = 0,6 m	12.211 m3		heavy lorrys 220 tons
		Total	**24.265 m3**		GDF Building Site your country
			2.183 tons		90 kg Steel / m3
	6.914.250 EUR net	170 m3	**25.500**	EUR	8 weeks after 1 st pay - everywhere in Germany
	1.244.565 EUR 18 %	11.884 m3	**1.782.600**	EUR	**B25 Quality** - we use your 2 mixing batches
	8.158.815 EUR brut	12.211 m3	**1.831.650**	EUR	we offer in EUR - we are an EU / DE company
		90 kg steel/m3	**3.274.500**	EUR	there is STEEL inside now - very expensive !!!

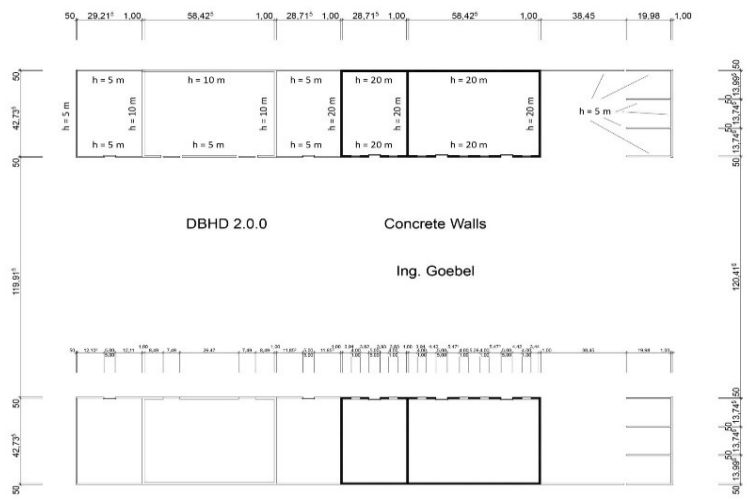




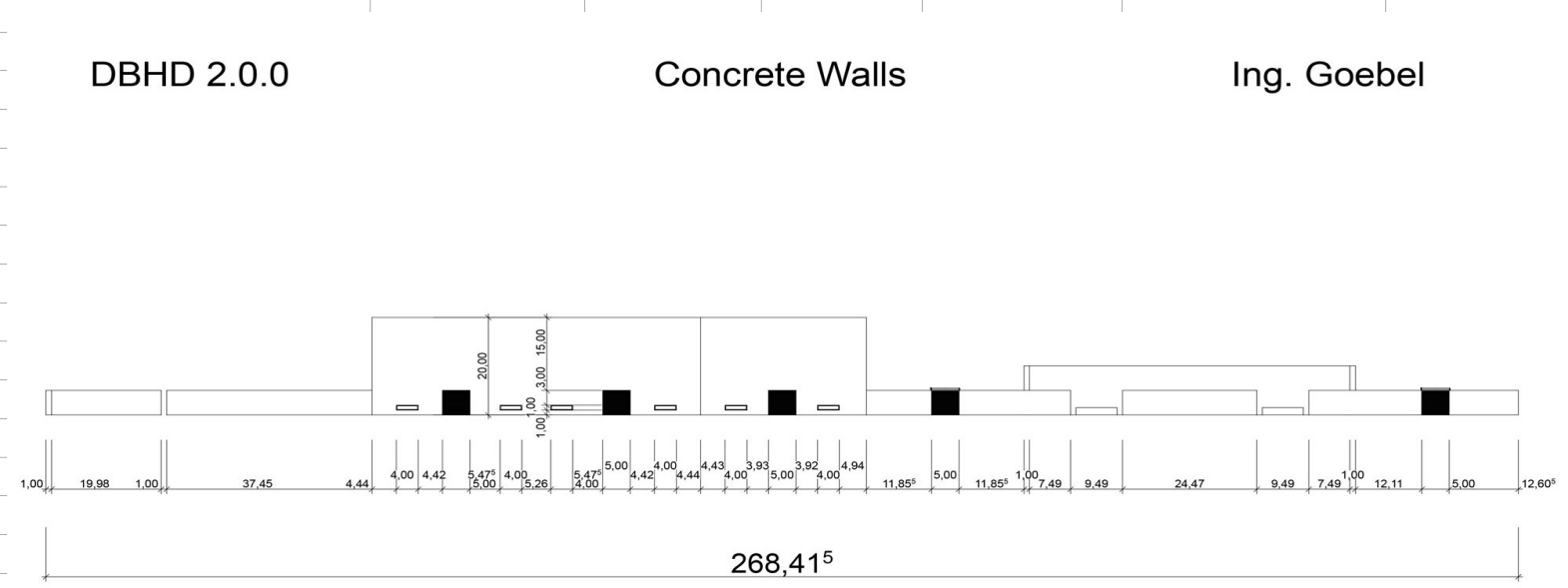
the pictured BOQ by Ing. Goebel - - - - - Anfrage-Tabelle mit Baugruppen Bildern

2.	**Concrete walls**	h = 5 m	780 m	1.950 m3	add up youself using given data
		h = 10 m	300 m	900 m3	quote also for concrete floors
		h = 20 m	720 m	7.200 m3	quote also for concrete columns
				1.206 tons	120 kg Steel / m3





4.370.250 EUR net	h = 5 m	419.250	EUR	8 weeks after 1 st pay - everywhere in Germany
786.645 EUR 18 %	h = 10 m	198.000	EUR	B25 Quality - we use your 2 mixing batches
5.156.895 EUR brut	h = 20 m	1.944.000	EUR	we offer in EUR - we are an EU / DE company
	Steel	1.809.000	EUR	there is STEEL inside now - very expensive !!!



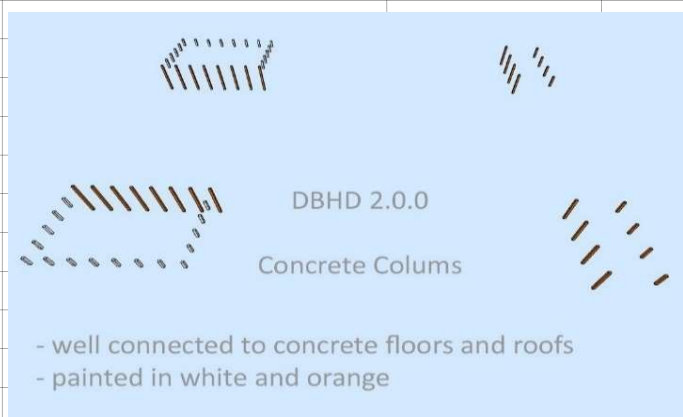
readable plans are all as .pdf on the website ing-goebel.com

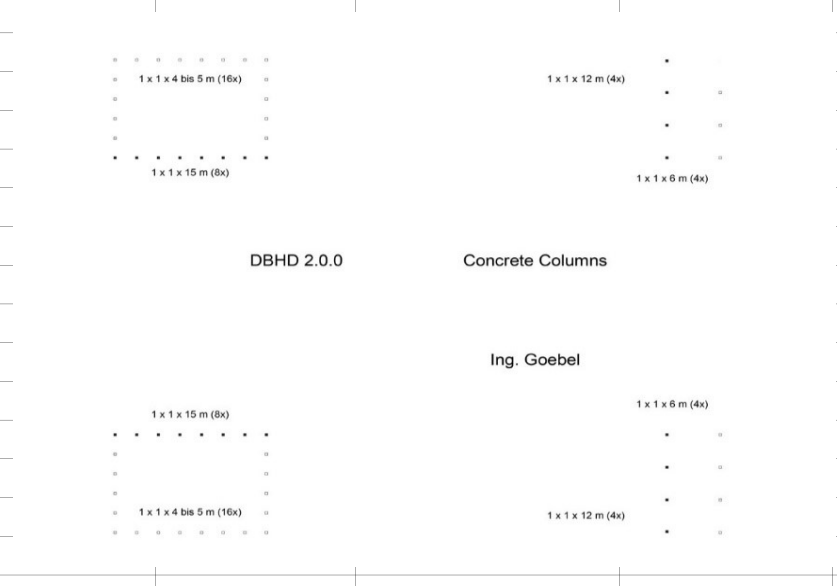
3.	**Doors** in concrete walls				add up yourself using given data
	215.040 EUR net	5 x 5 gates	**16 x**	electric	double gates in t = 1 m walls
	38.707 EUR 18 %	4 x 1 windows	**24 x**	fixed	double windowds in t = 1 m walls
	253.747 EUR brut				

5 x 5 meter
electric gates
double gate
192.000 EUR
silver, color coating

4 x 1 meter
fixed 3 layer glass
double window
23.040 EUR
no frames

4.	**Concrete Columns**	1 x 1 x 4-5 m	32x	160 m3	concrete poured on site
		1 x 1 x 15 m	16x	240 m3	color coating
					reinforced connection to the groud
		1 x 1 x 6 m	8x	48 m3	
		1 x 1 x 12 m	8x	96 m3	quote also for the concrete floors
					quote also for the concrete walls

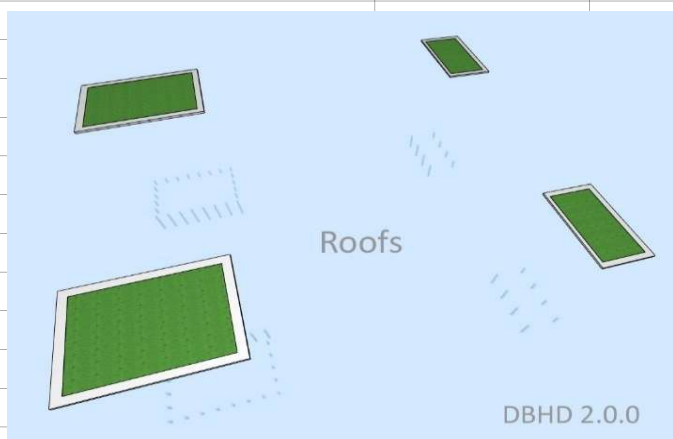


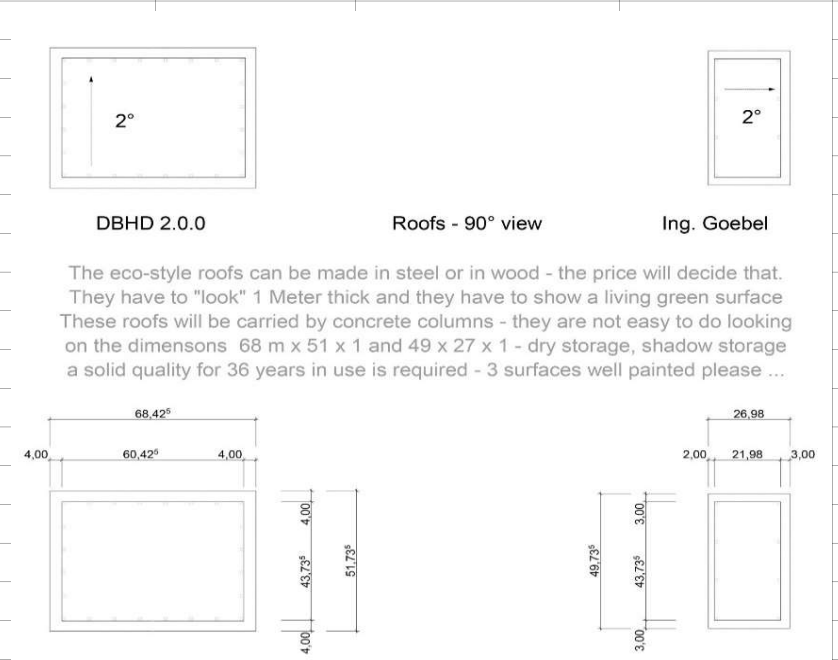


zoom in - clear view

337.280 EUR net	h = 4-5 m	56.000	EUR	8 weeks after 1 st pay - everywhere in Germany
60.710 EUR 18 %	h = 15 m	84.000	EUR	B25 Quality - we use your 2 mixing batches
397.990 EUR brut	h = 6 m	16.800	EUR	we offer in EUR - we are an EU / DE company
	h = 12 m	33.600	EUR	we quoted what is on the drawings - Thanks
	Steel	146.880	EUR	180 kg Steel / m3

5.	**Roofs**	2 x big roofs	7.078 m3	see in the given technical plans
		2 x small roofs	2.683 m3	in metal or in wood - put earth on top



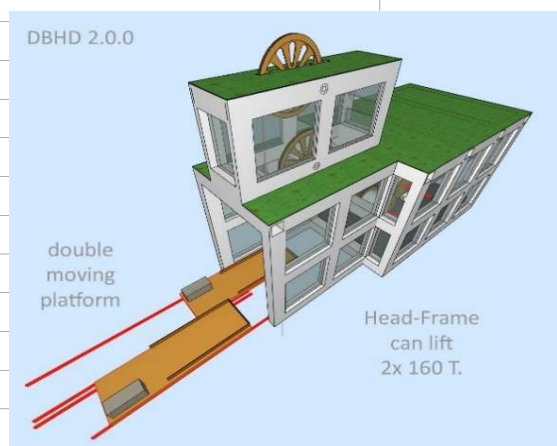


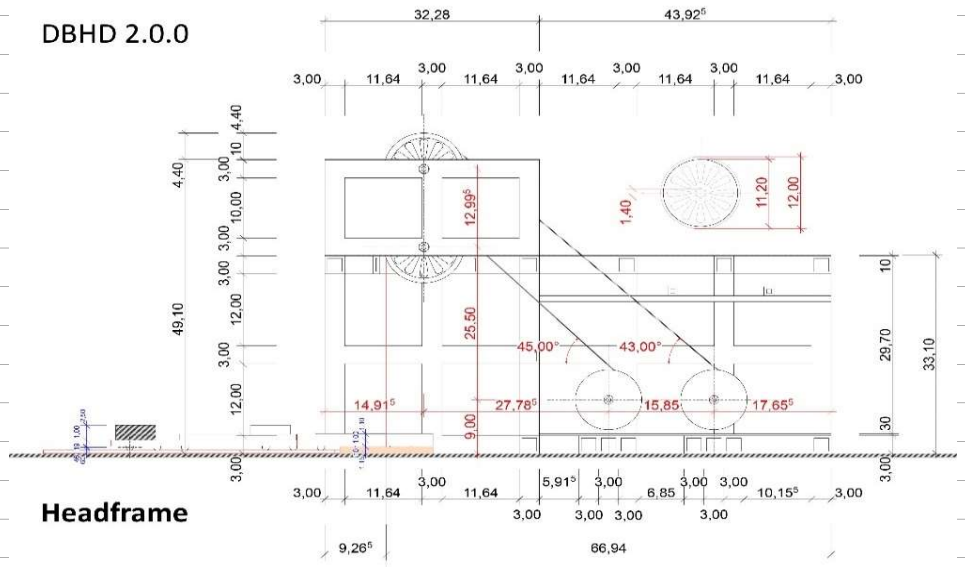
roofs have to be connected to concrete columns
concrete colums are squarelike 1 x 1 m

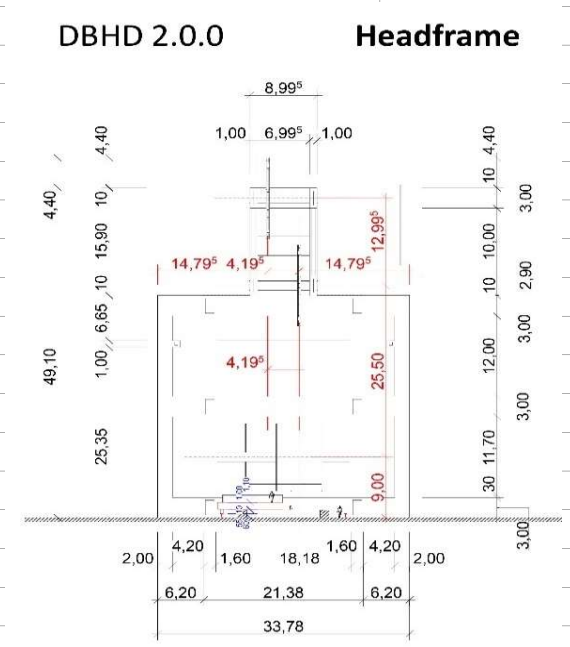
Building has be solid for 36 years

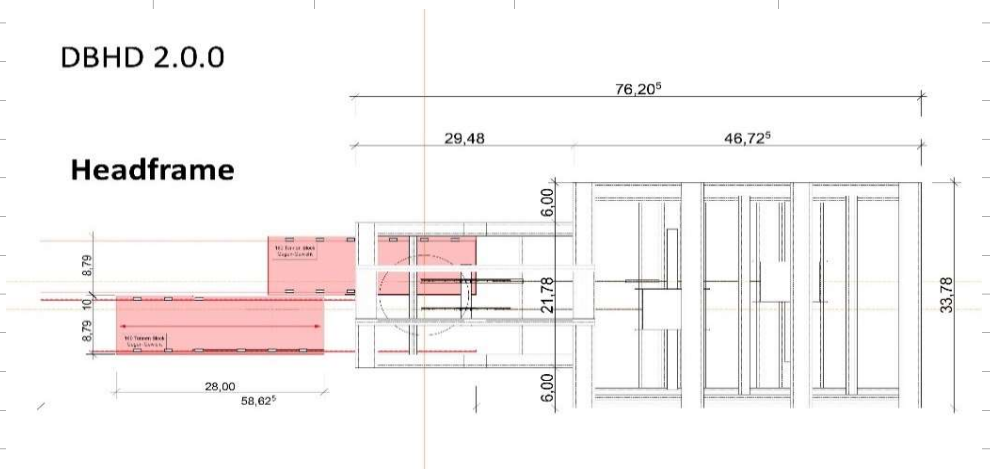
10.200.500 EUR net	2x big roofs	7.785.800	EUR	6 month after 1 st. payment - delivery & fixing
1.836.090 EUR 18 %				steel construction - but with wooden surfaces
12.036.590 EUR brut	2x small roofs	2.414.700	EUR	we offer in EUR - we are an EU / DE company

6.	**Head-Frame Unit**	79.414 m3	1x	Steel-Unit	follow given technical plans, do all colors

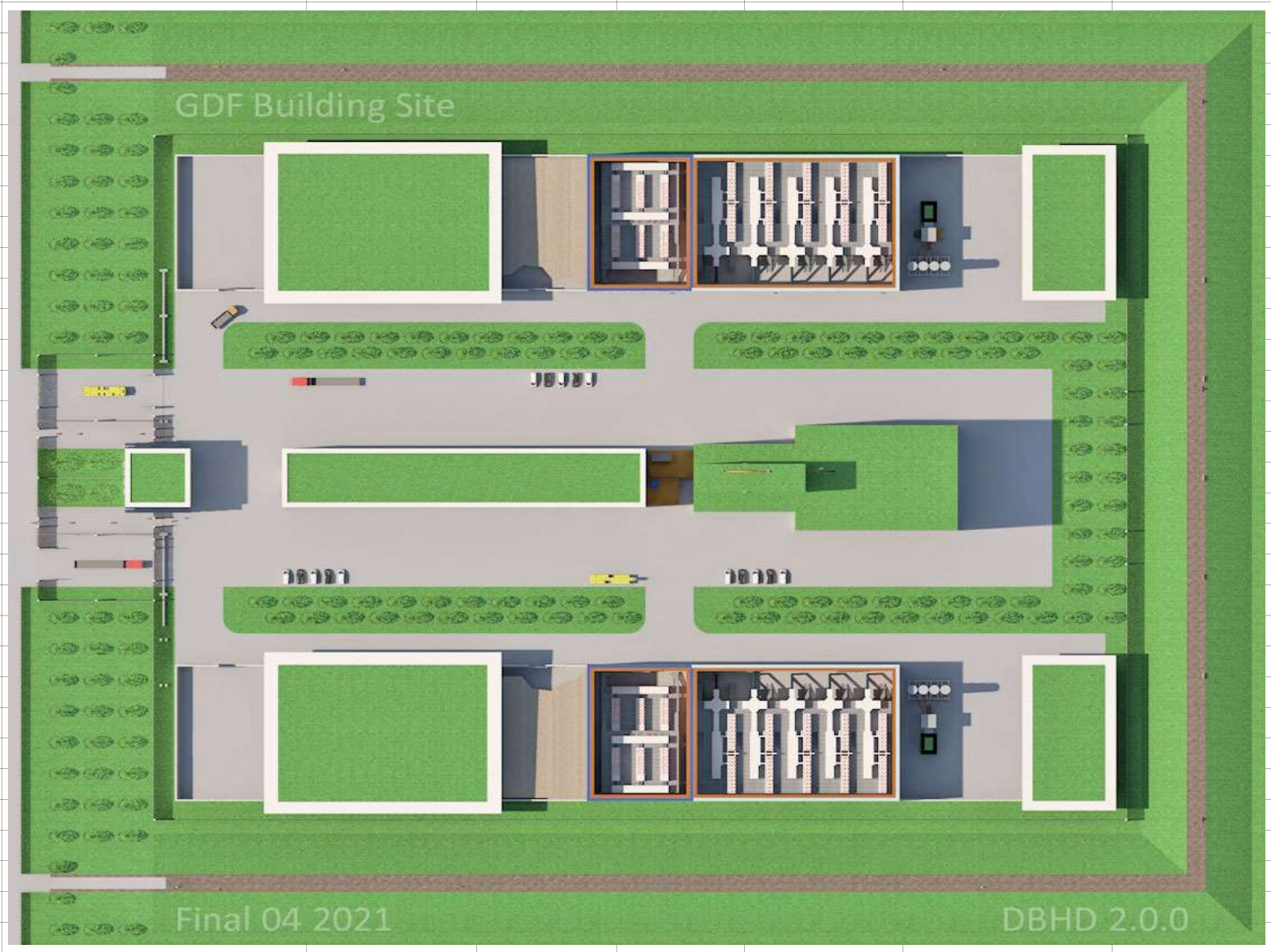




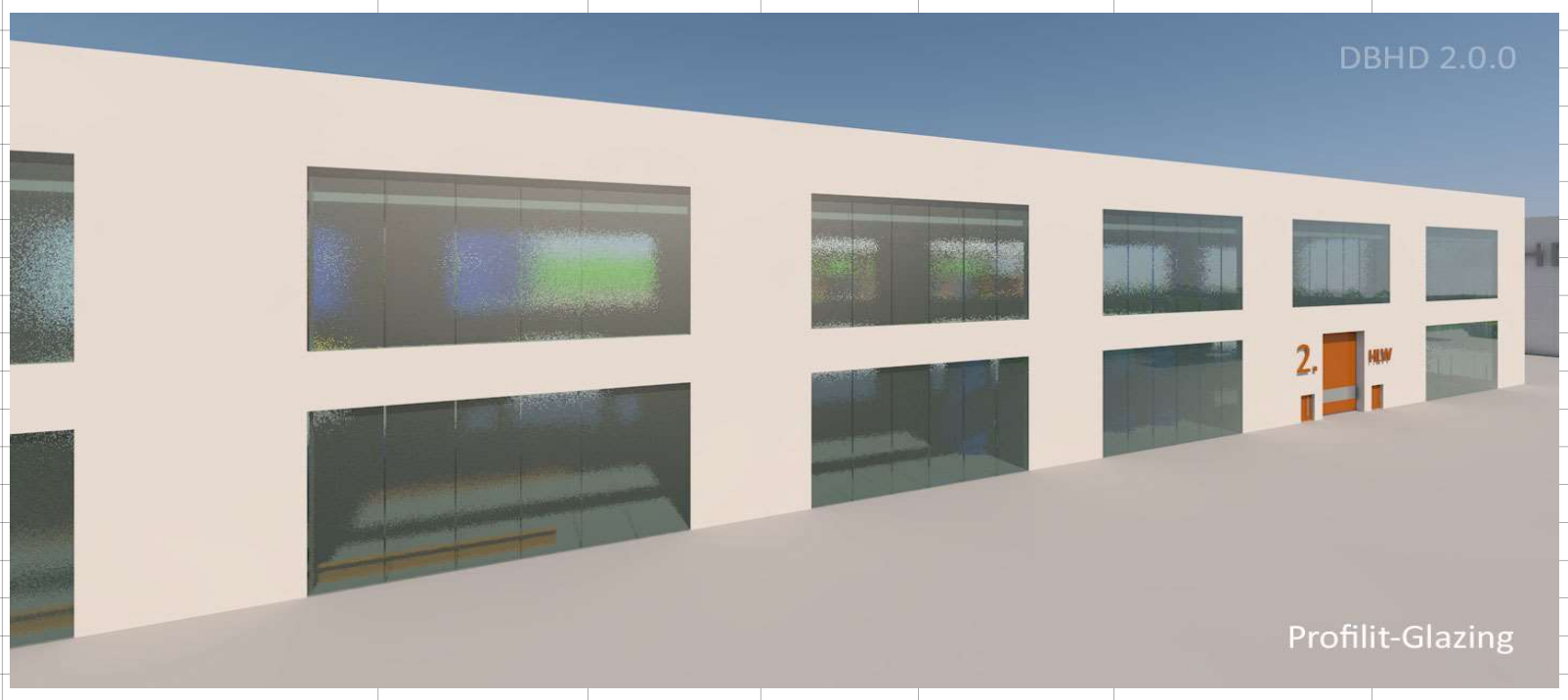




142.945.200 EUR net	1x steel	**142.945.200**	EUR	20 month delivery time after 1st payment
25.730.136 EUR 18 %	headframe			Steel-Frame-Colored-cable drums, motors, brakes
168.675.336 EUR brut	unit			we offer in EUR - we are an EU / DE company
				we want to see your technical detail drawing

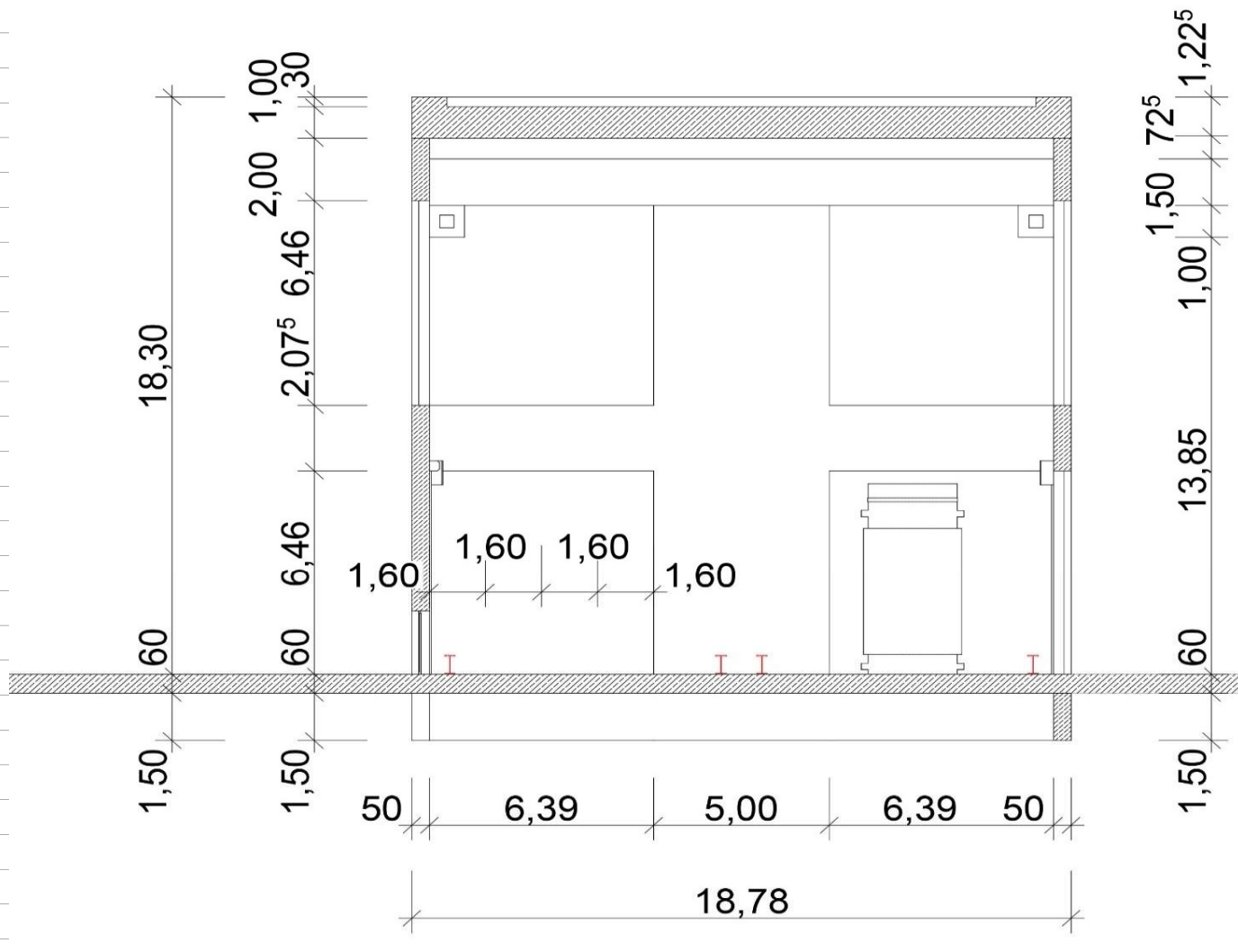


7.	**Workshop-Storage Hall**	1x	concrete glas	as defined in the technical drawings
		37.269 m3		static calculation required



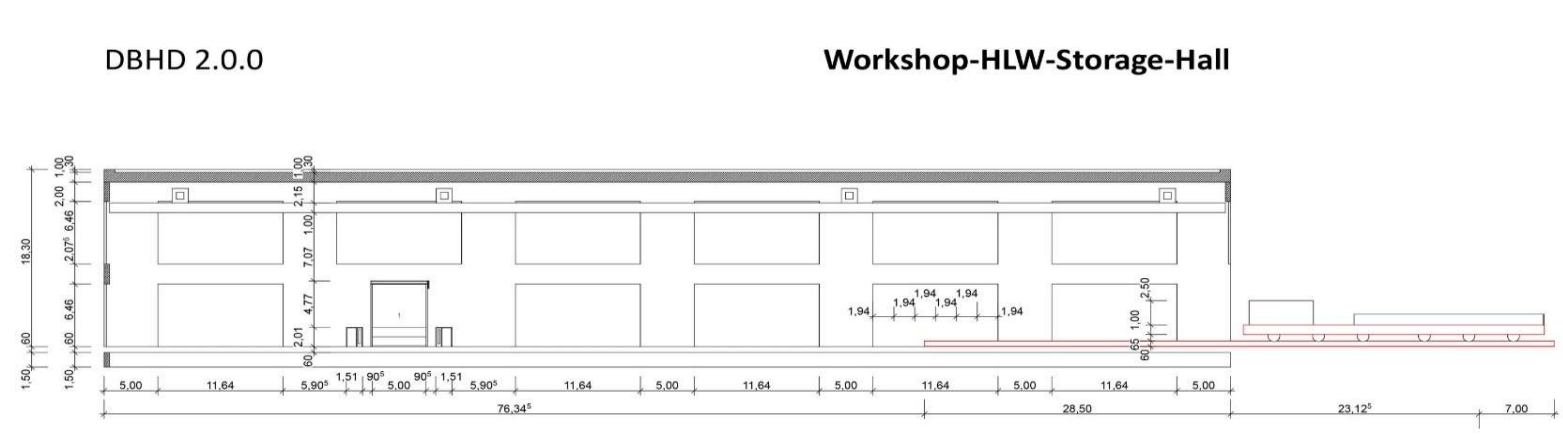
DBHD 2.0.0

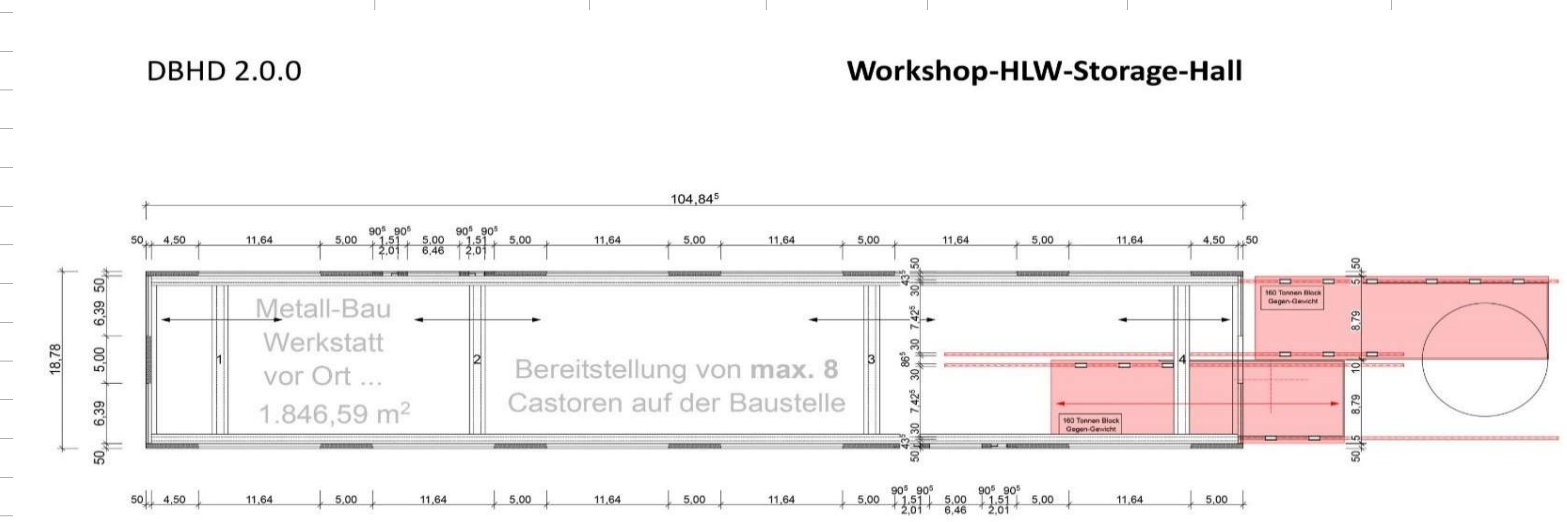
Workshop-HLW-Storage-Hall



skip 1,5 Meter from the foundation - Flat undersurface is a must now

7.	**Workshop-Storage Hall**	1x	concrete glas	as defined in the technical drawings

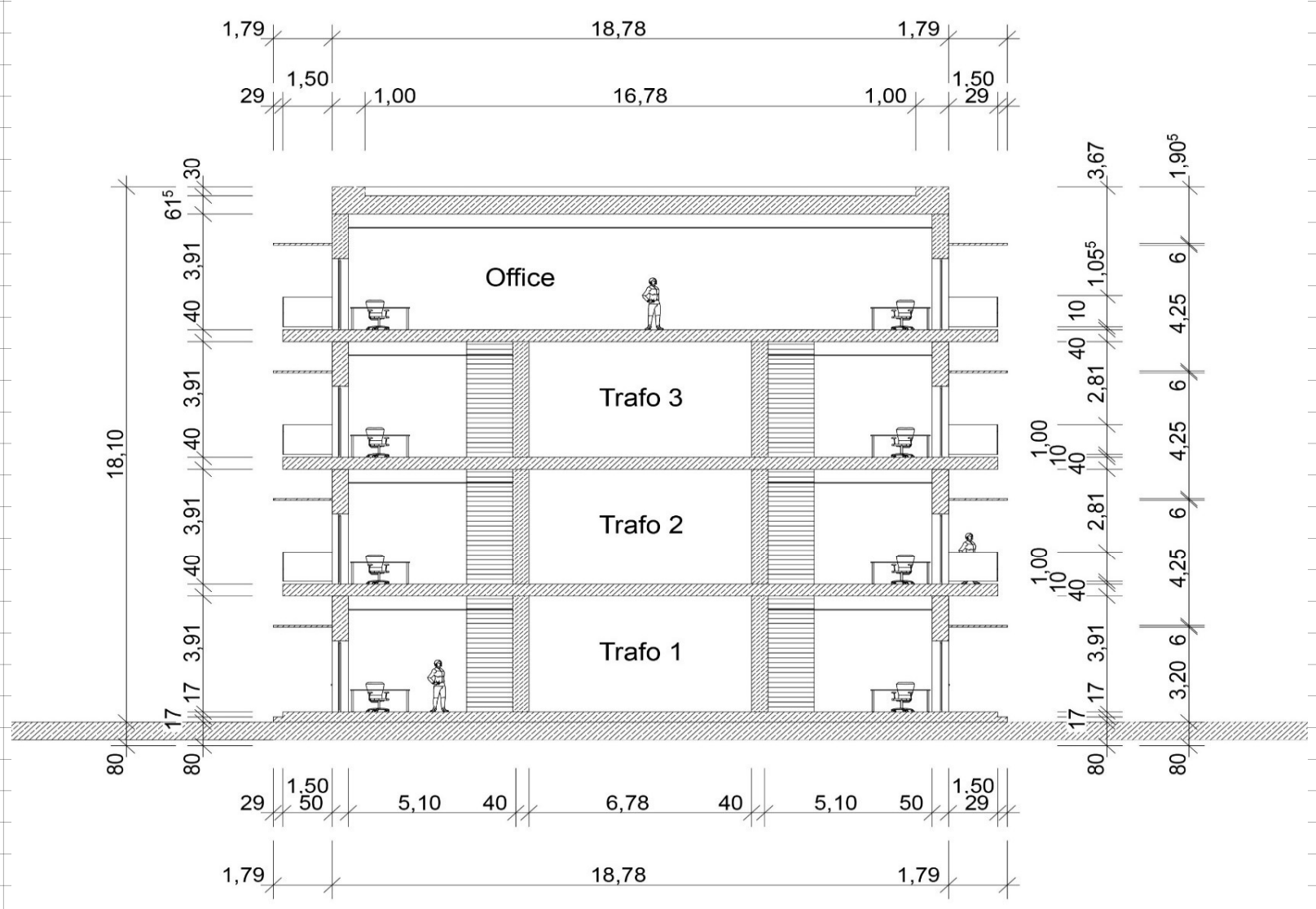




40.995.801 EUR net	1x	**40.995.801**	EUR	18 month delivery time after 1st payment
7.379.244 EUR 18 %	Workshop			concrete and glass with cranes and doors in
48.375.045 EUR brut	Storage Hall			we offer in EUR - we are an EU / DE company

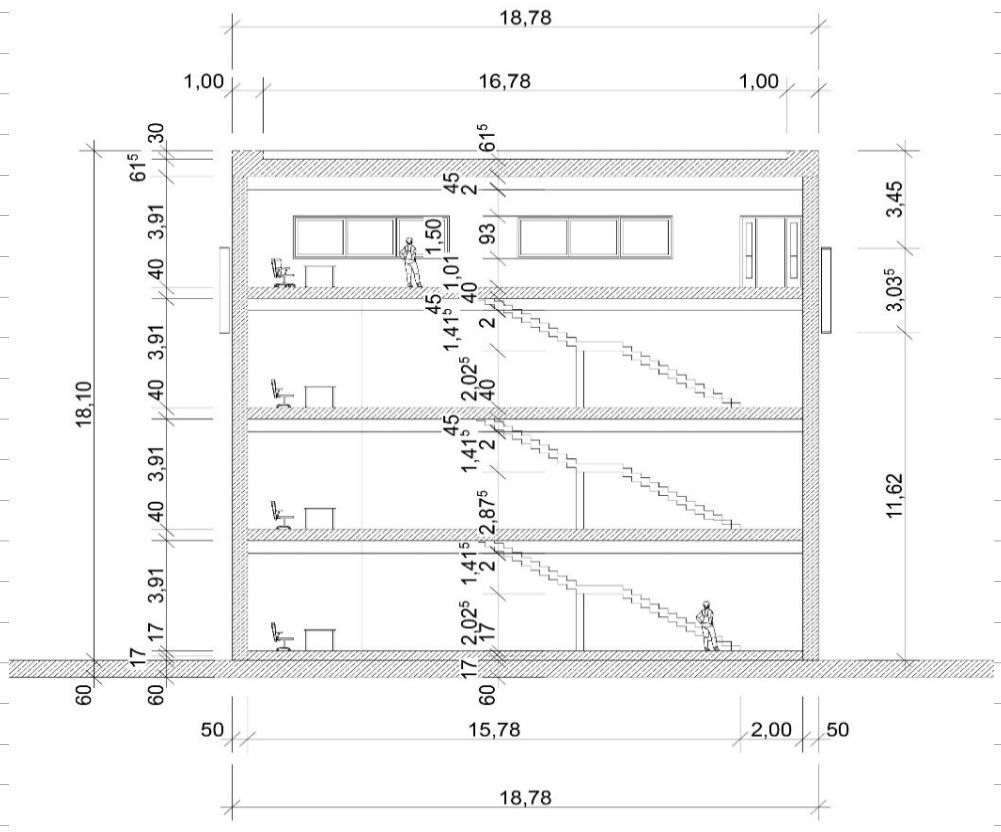
8.	**Office-Power-Building**	1x	concrete glas	follow the given technical plans static calculation required

DBHD 2.0.0 **Office-Power-Building**



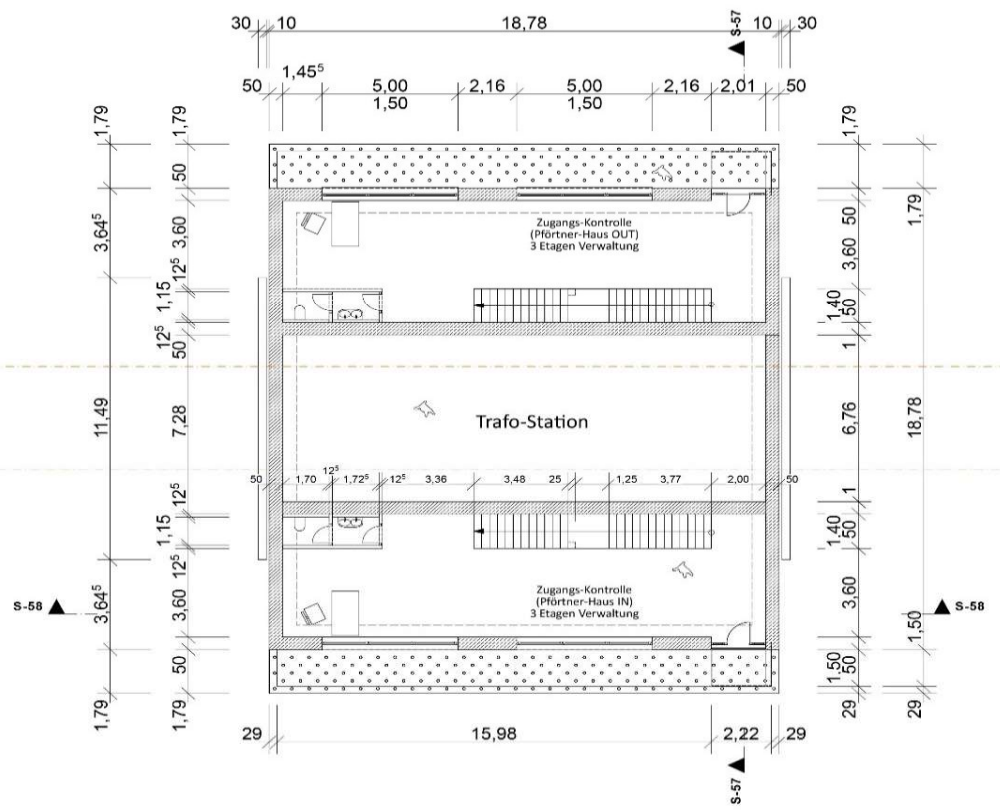
8.	**Office-Power-Building**	1x	concrete glas	follow the given technical plans
		6.624 m3		static calculation required

DBHD 2.0.0 **Office-Power-Building**

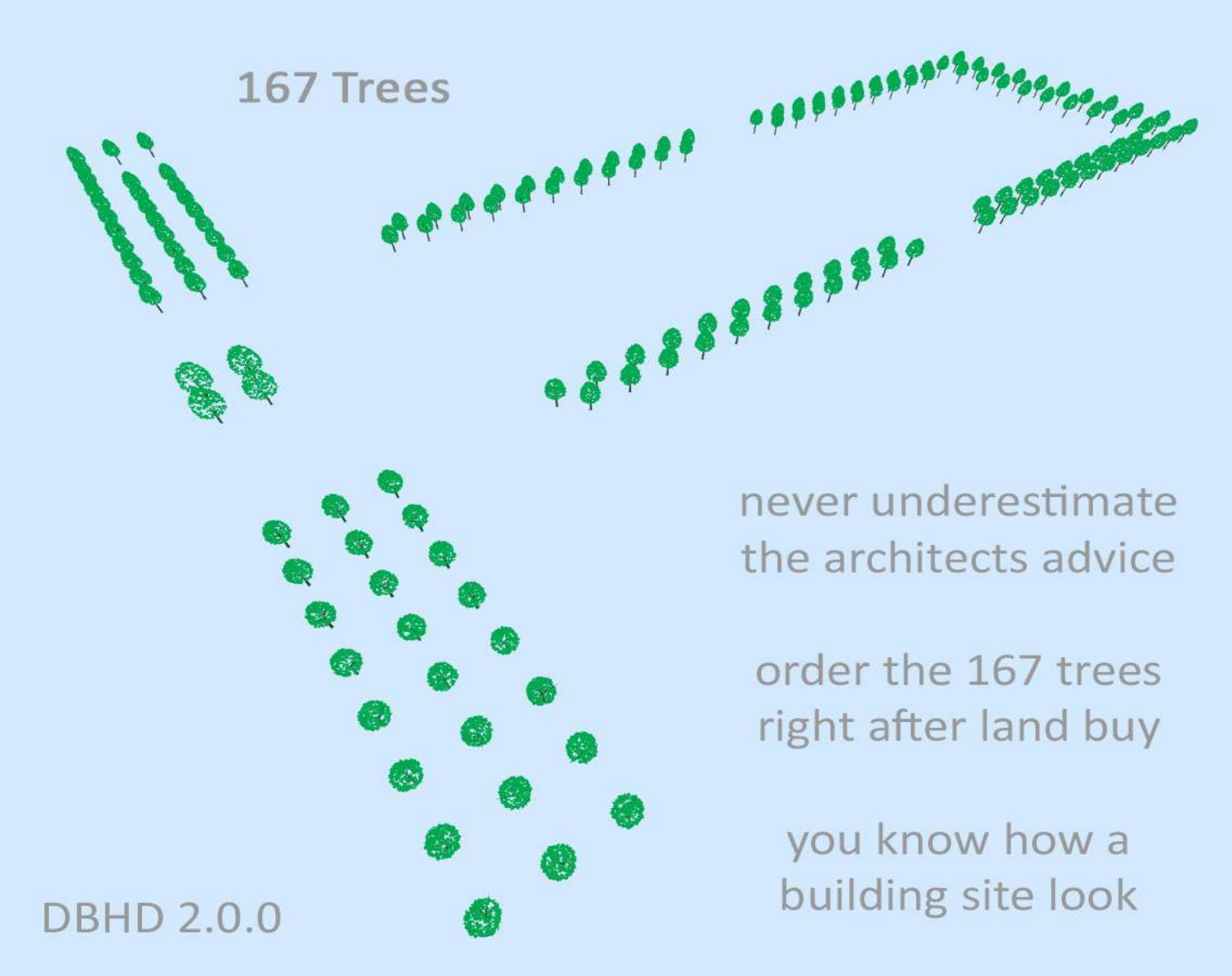


8.610.535 EUR net	1x	**8.610.535**	EUR	18 month delivery time after 1st payment
1.549.896 EUR 18 %	Office-Power			concrete and glass with doors, WCs and stairs in
10.160.431 EUR brut	Building			we offer in EUR - we are an EU / DE company

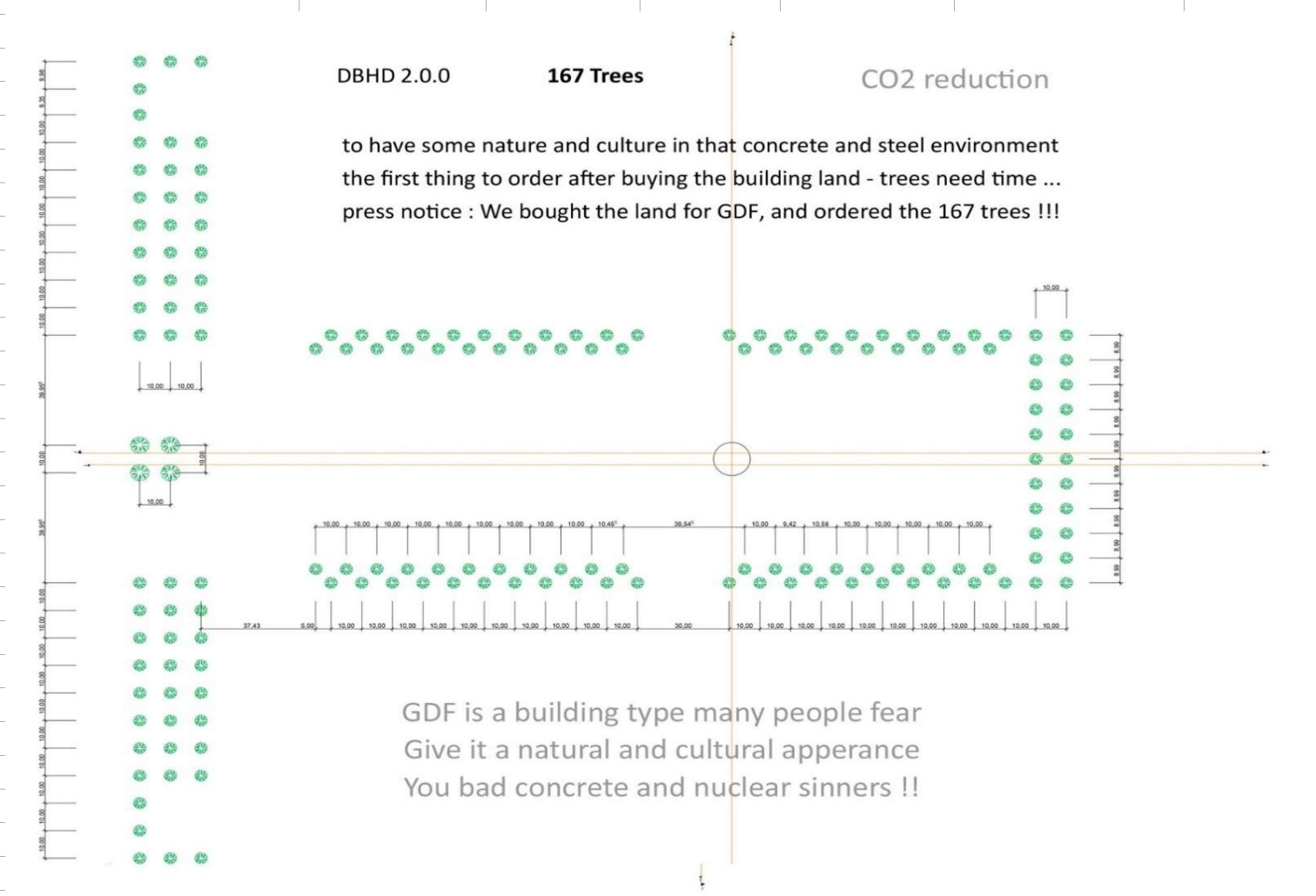
DBHD 2.0.0 **Office-Power-Building**



9.	**Trees**	167 Trees			planted - following the building site plan
					trees have to fit to your countries vegetation

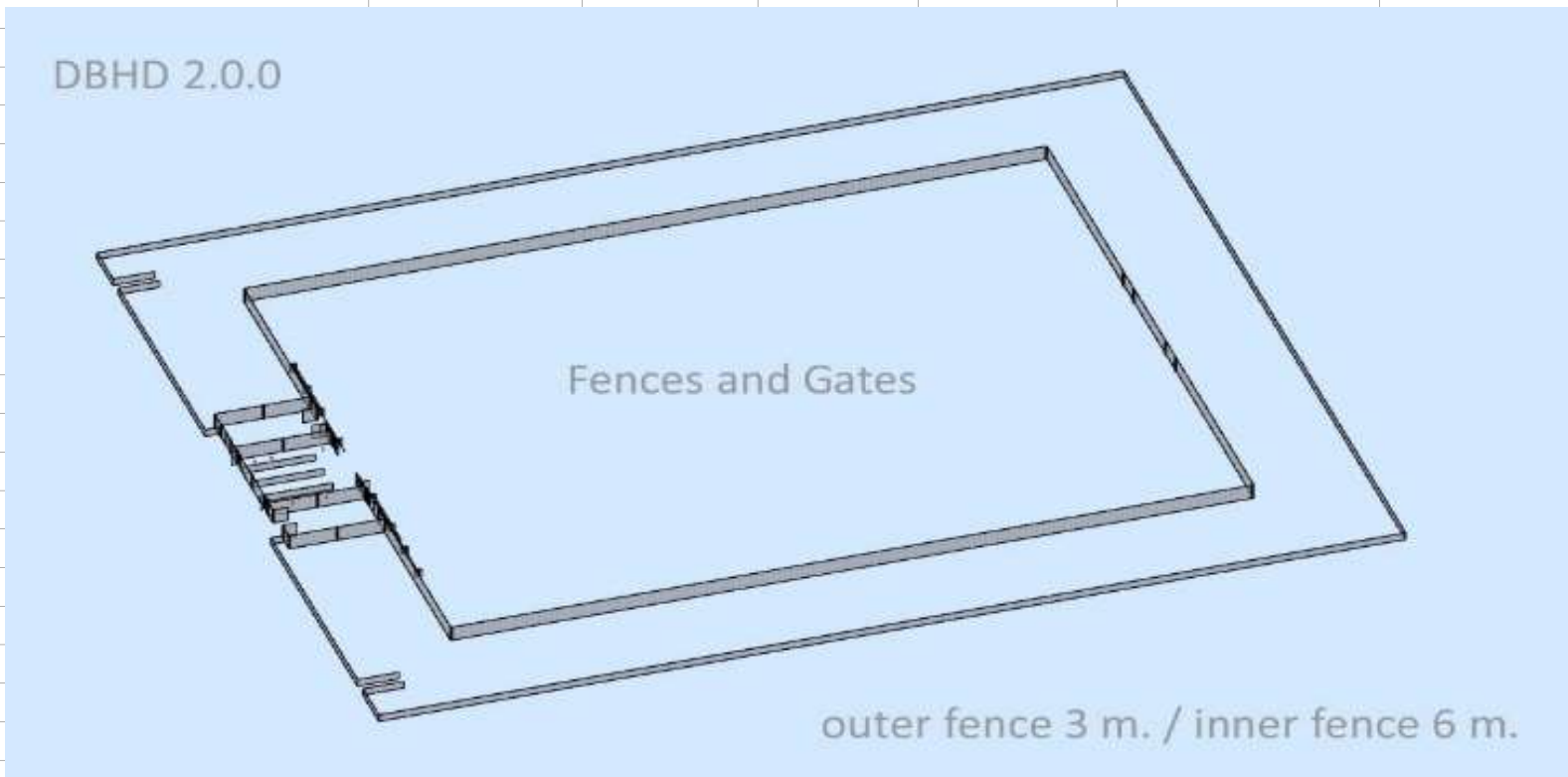


The trees have to be ordered early - right after buying the land - they are in the same press conference

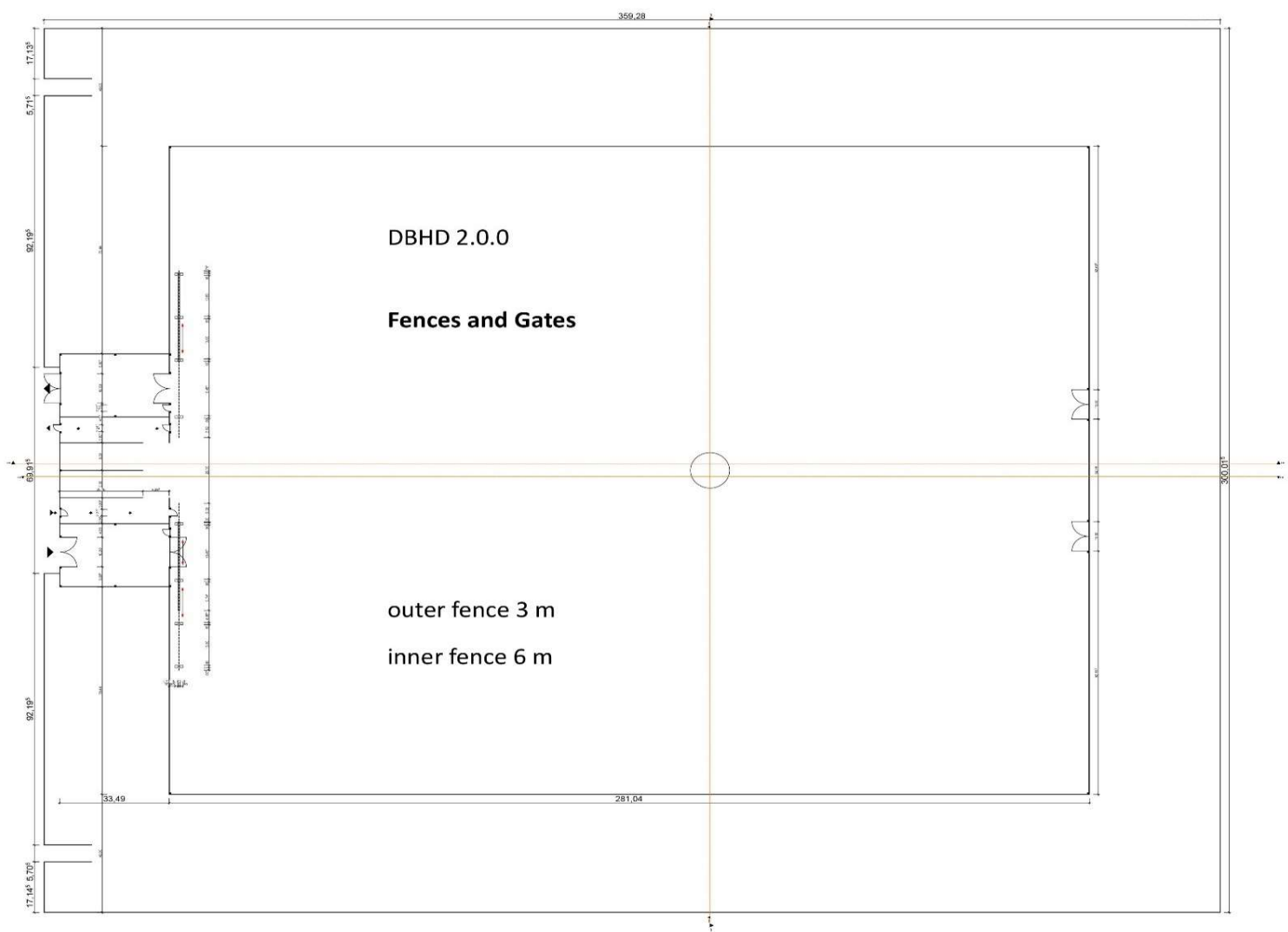


53.440 EUR net	167 Trees	**53.440**	EUR	8 weeks after 1 st. Payment - Allee-Bäume - Solitäre
9.619 EUR 18 %	delivery			16 Jahre alt, h = 5 m, b = 2 m, Stamm D = 30 cm
63.059 EUR brut	and planting			we offer in EUR - we are an EU / DE company
				Tree delivery - Tree planting - Tree care 1 year

10.	**Fences and Gates**		1 Set		follow technical plans	



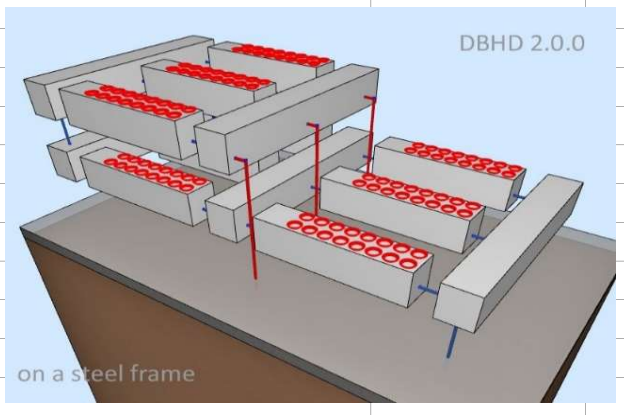
Fences 3 m high - 1m deep	1.364 m	143.220	EUR	quote your suitable product - Doppelsteegzaun
Fences 6 m. high - 2 m deep	1.148 m	241.080	EUR	quote your suitable product - Doppelsteegzaun
Doors for people	4 x	20.000	EUR	count them yourself - electric controlled
Gates for cars, trucks	6 x	150.000	EUR	as 2 or 1 - count them yourself - electric controlled
Electric massiv barrier	2 x 57 m	60.000	EUR	fast move - show construction drawing with quote

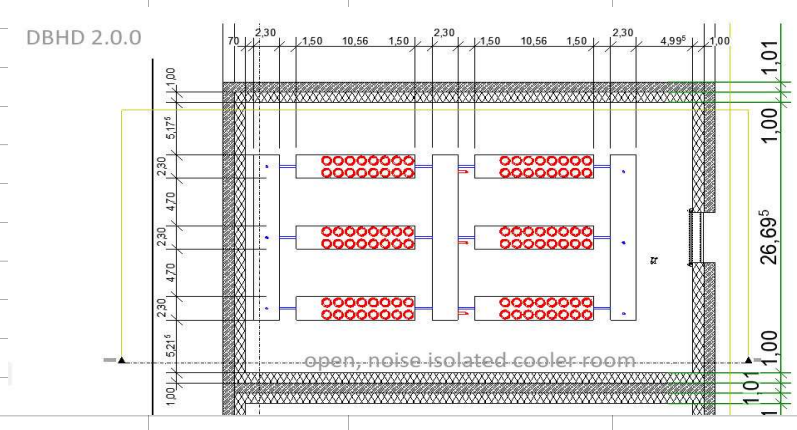


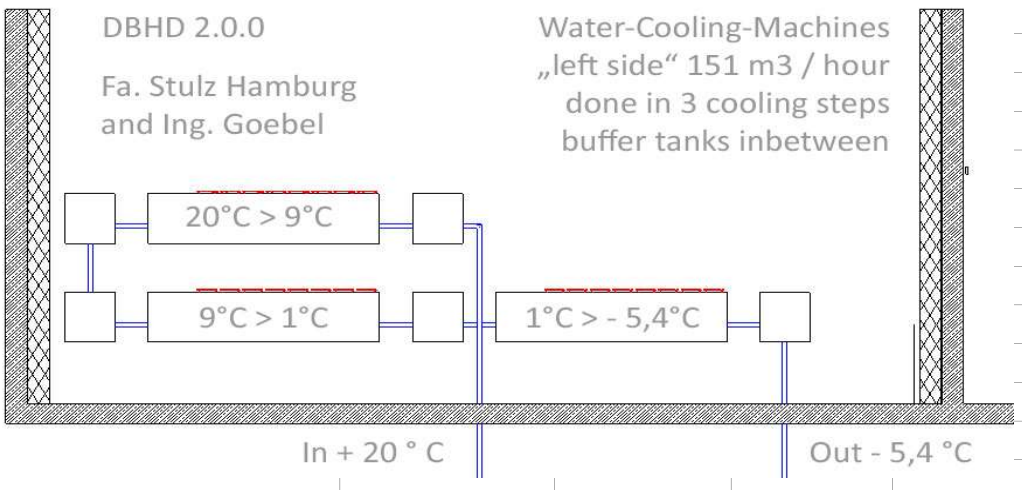
614.300 EUR net	fences 3 m	143.220	EUR	not easy to climb fence - for 36 years
110.574 EUR 18 %	fences 6 m	241.080	EUR	quality description
714.874 EUR net	doors / gates	170.000	EUR	mention your currentcy
	movea. Barrier	60.000	EUR	

11. Water Cooling Machines

we have a good quote for best machines > STULZ
Capacity : 2x 151 Liters / hour water - 5,4 °C



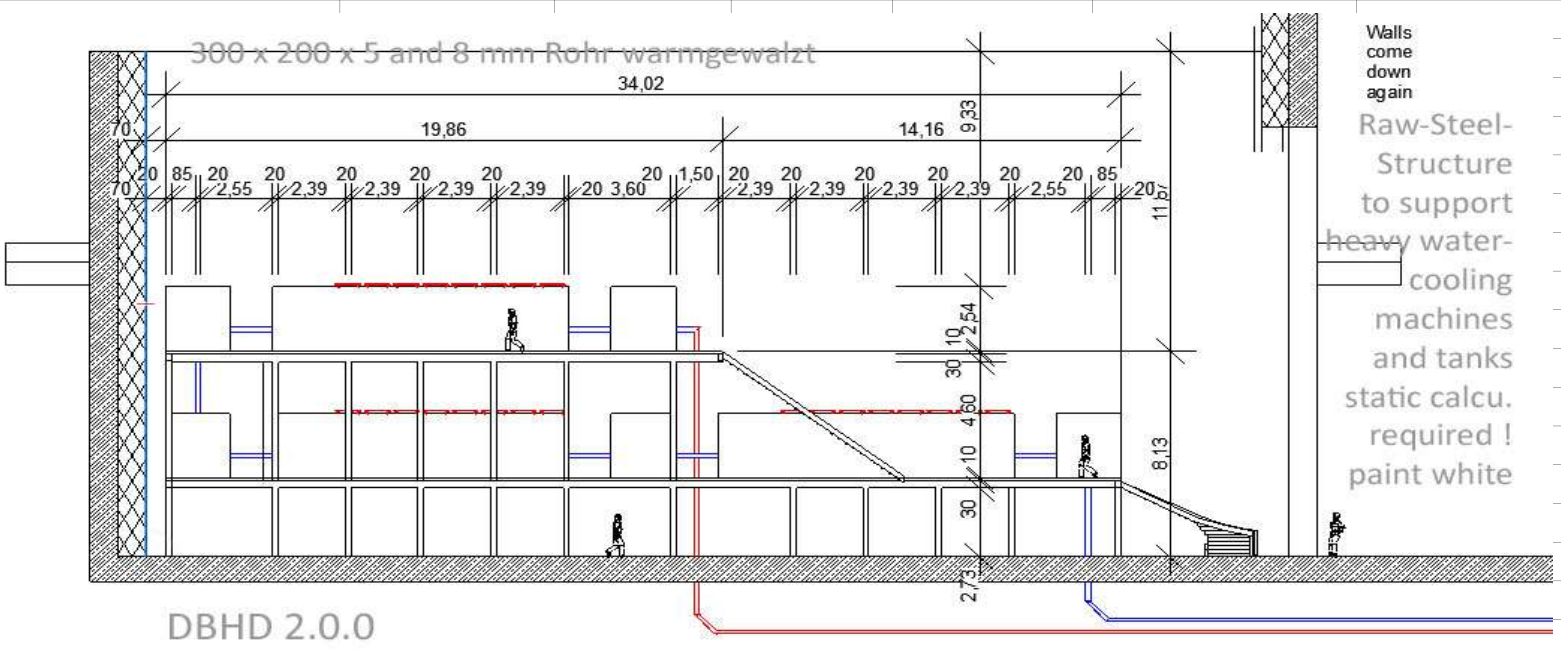




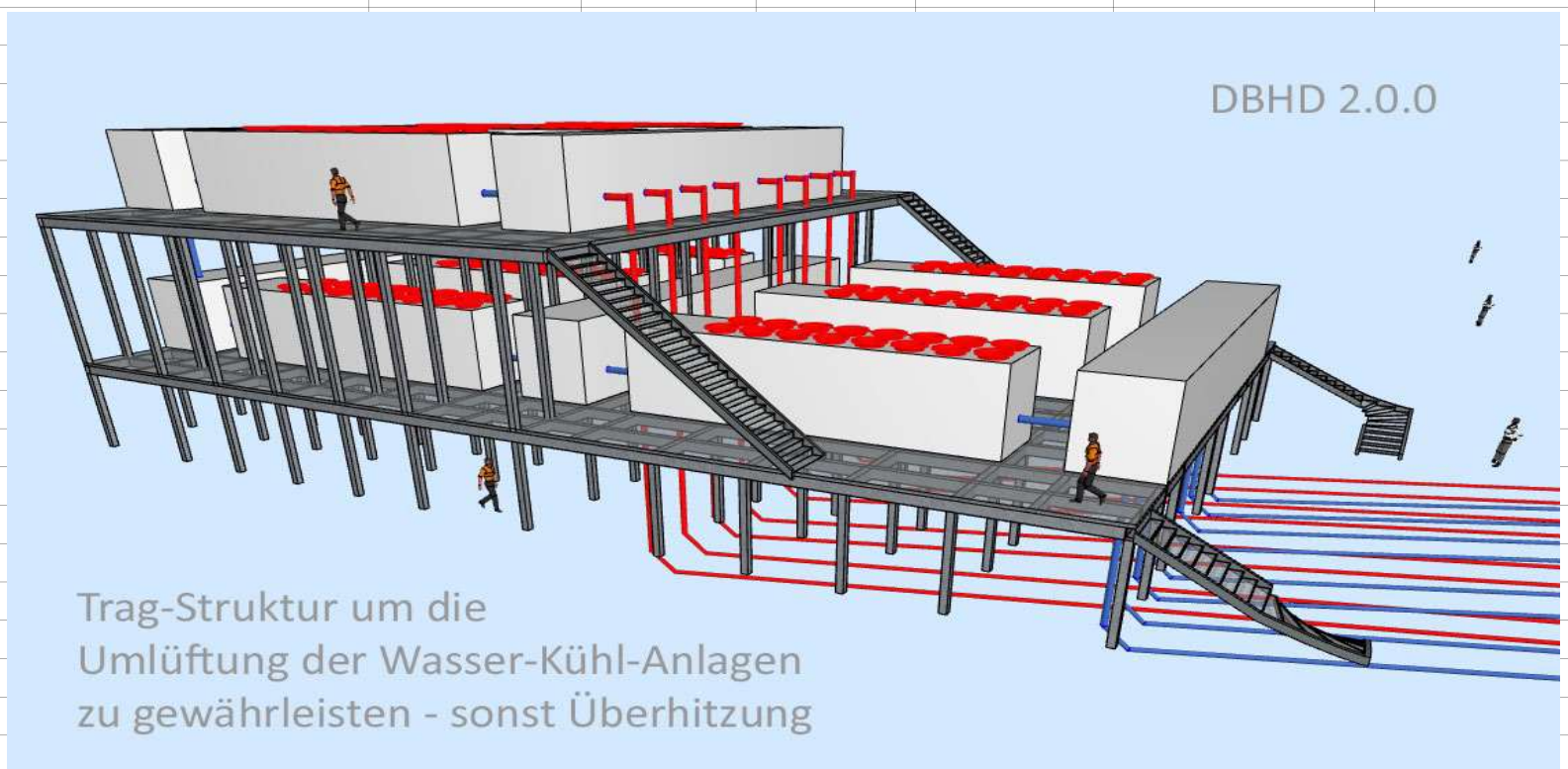
6x Water cooling machines	see.pdf Stulz	1.835.983	EUR	151 m3 / h cold water -5,4 °C all year around
5x Pre-Tanks for Water/Glycol	100.000 L	480.000	EUR	2,67 x 2,3 x 16,3 m = 100 m3 - steel tank, tubes
4.631.966 EUR net	2 sets			delivery 4 month after 1st payment 50 %
833.754 EUR 18 %	water-cooling	4.631.966	EUR	Machines plus tanks and the basic tubes
5.4657.20 EUR brut	machines			we offer in EUR - we are an EU / DE company

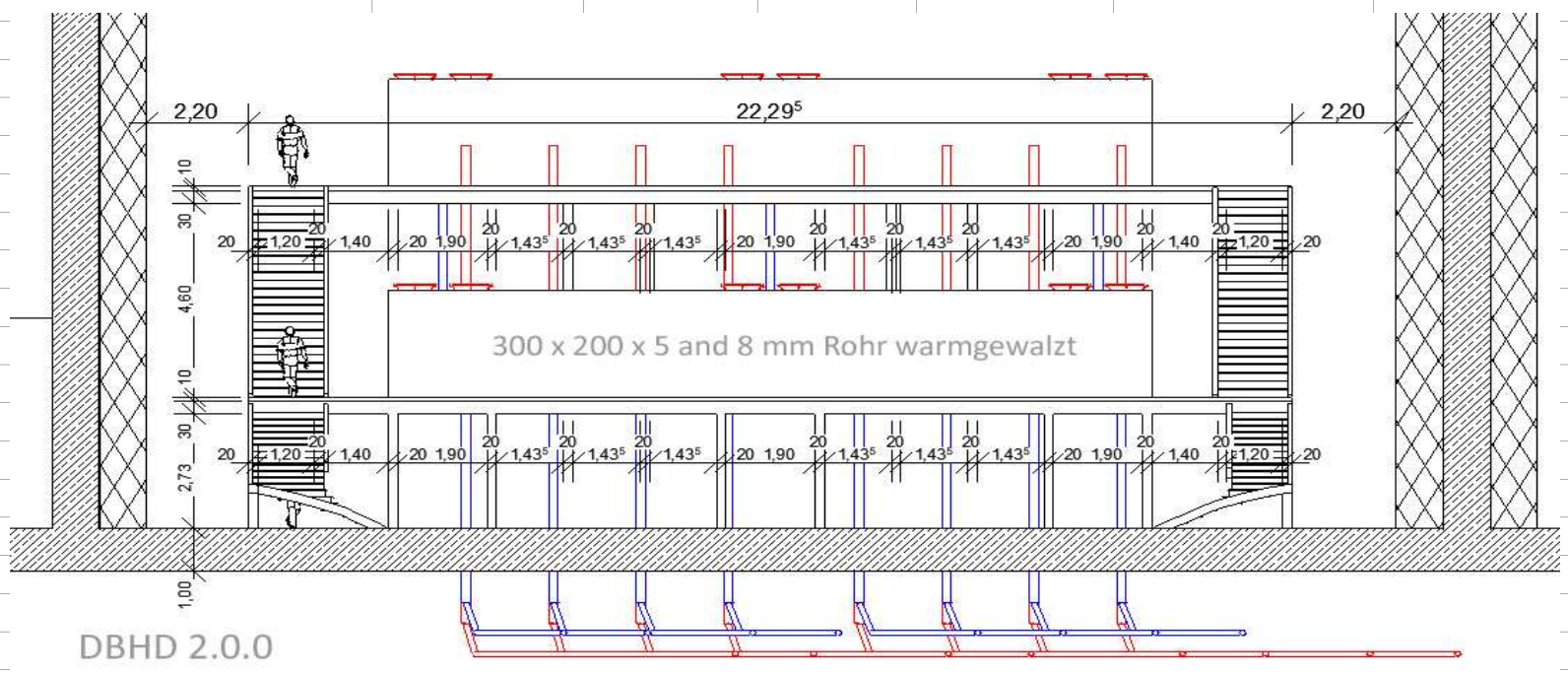
12. Steel Structure to carry the ...

we need a qoute for this :	steel structure	that carries	the water-	cooling units	2x 6.164 m3	incl. stairs

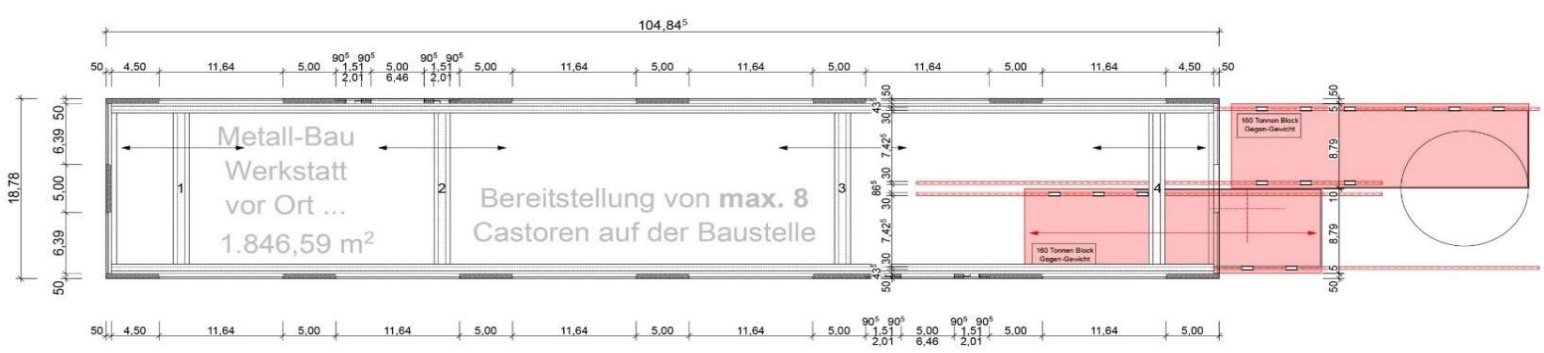


1.602.640 EUR net	2 steel structures	**1.602.640**	**EUR**	Measurement is based on Stulz Cooling Mach.
288.475 EUR 18 %	to carry water-			metal-grid surface to walk on - stairs, more railings
1.891.115 EUR brut	cooling mach.		12.328 m3	we offer in EUR - we are an EU / DE company



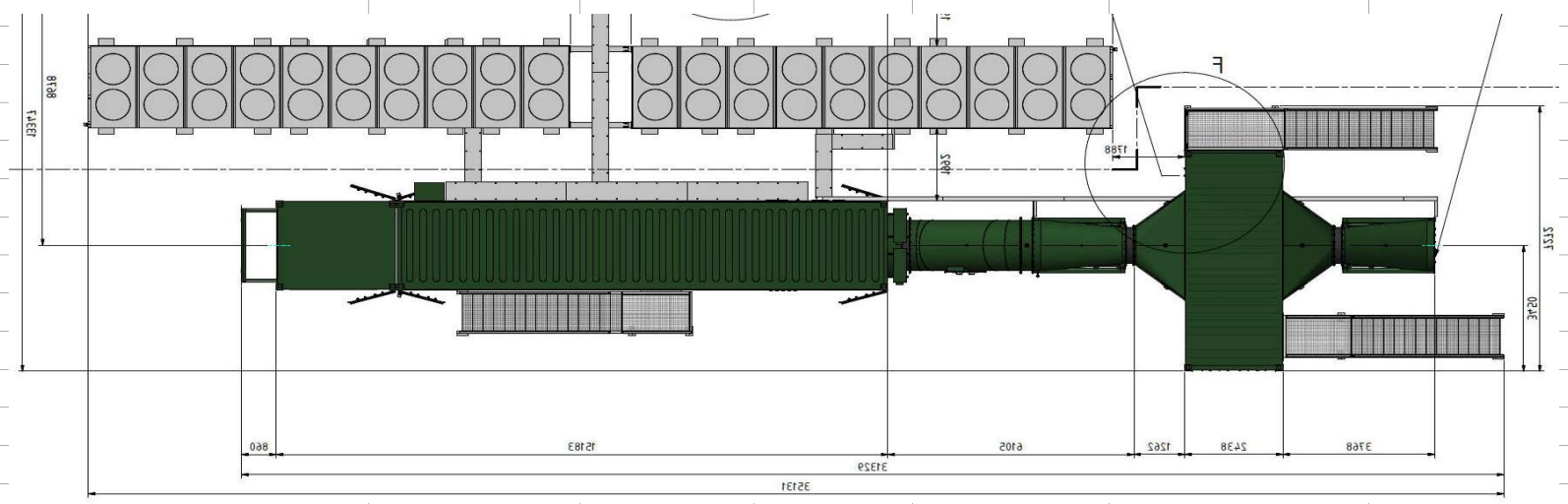


13.	**Move-able platforms**	2x	Steel	only the red elements are to quote



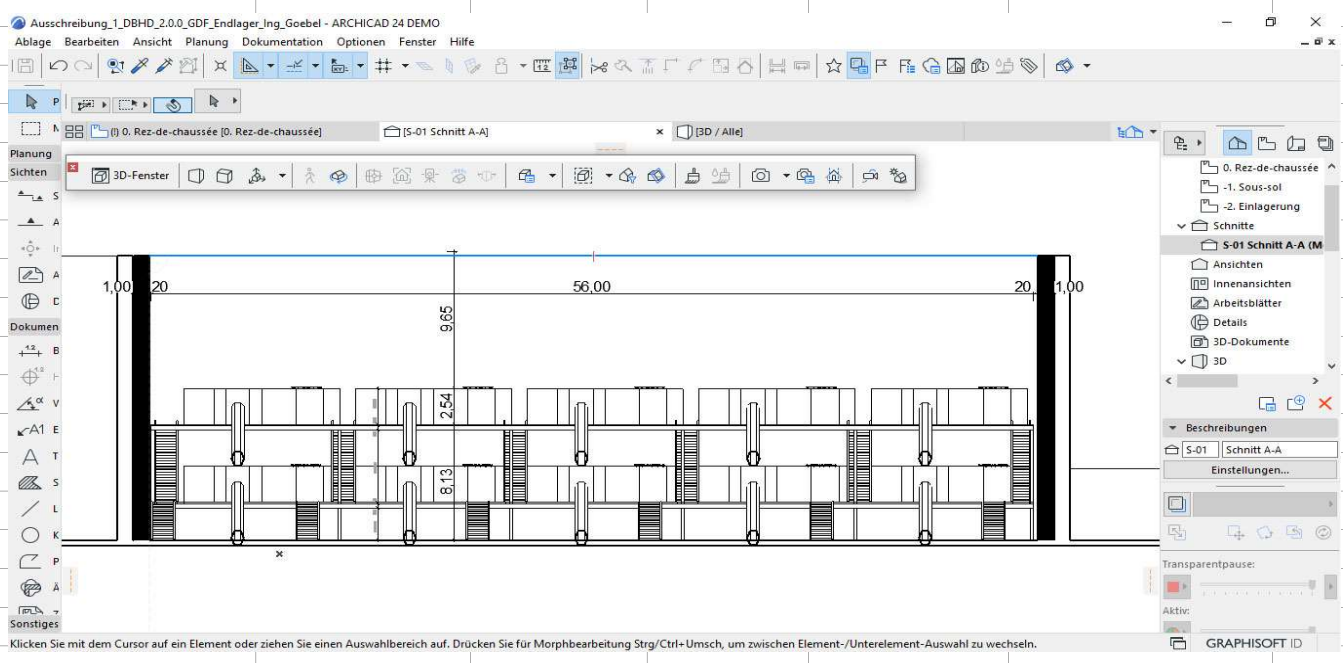
600.000 EUR net	2 x heavy	2x 200 Tons		heaviest weight 160 Tons to cable
108.000 EUR 18 %	move-able	400 Tons		platforms pushed by electric motor
708.000 EUR brut	platform	600.000	EUR	mention your currentcy

14.	**Air Cooling Machines**	2 sets		we have an offer from CFT (has to be completed) **2x 2,2 Mio. m3 / hour cold air + 8° C** offered machines are still too big !?

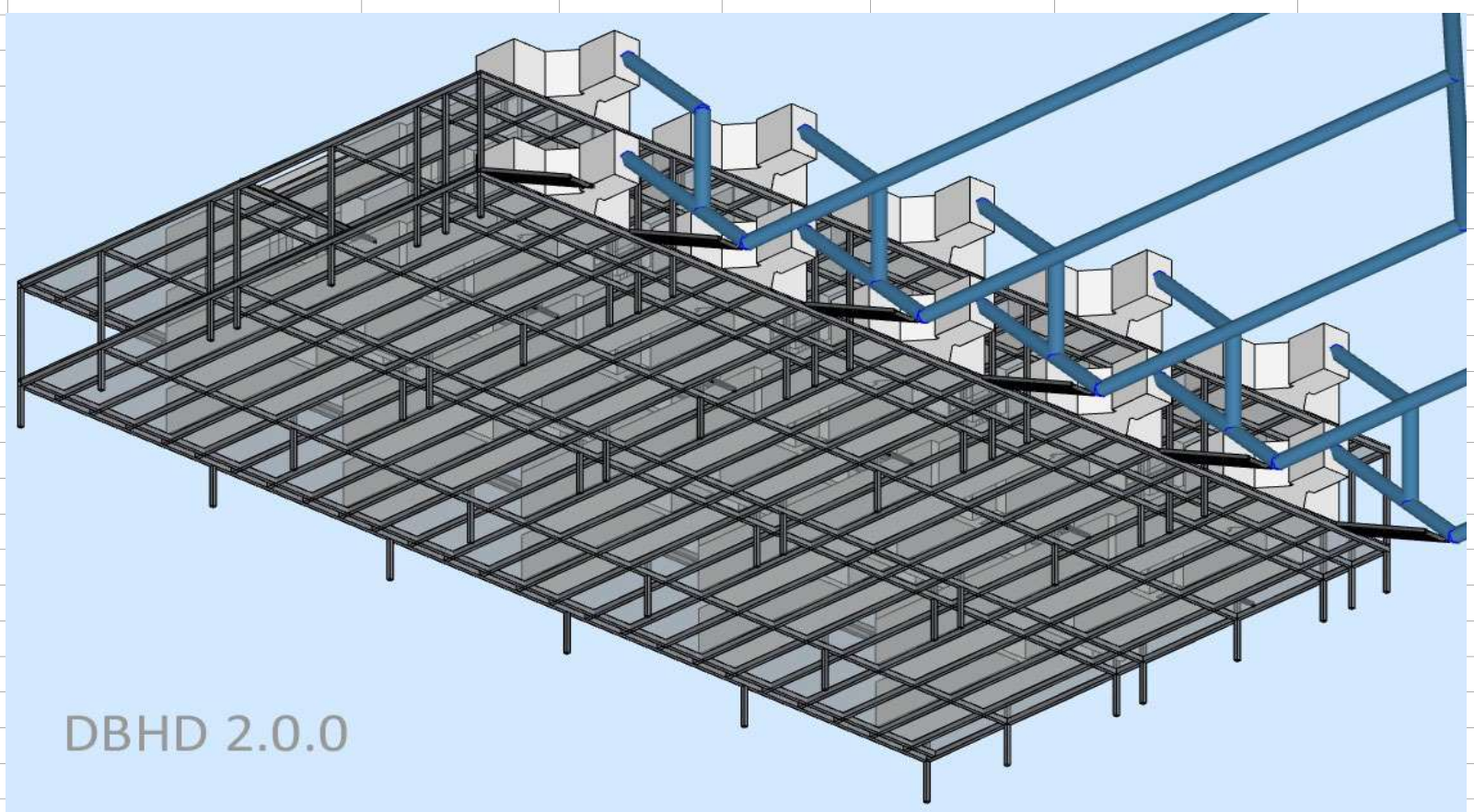


21.000.000 EUR net	2 x sets			capacity 2 x 2,2 Mio. m3 / hour cold air + 8 °C
3.780.000 EUR 18 %	air cooling	21.000.000	EUR	final machine size unclear - but we have an offer
24.780.000 EUR brut	machines			we offer in EUR - we are an EU / DE company

14.	**Steel Structure to carry the …**	2x	Steel	existing techn. plans are in-complete yet 2 x 16.299 m3 = 35.598 m3 construction

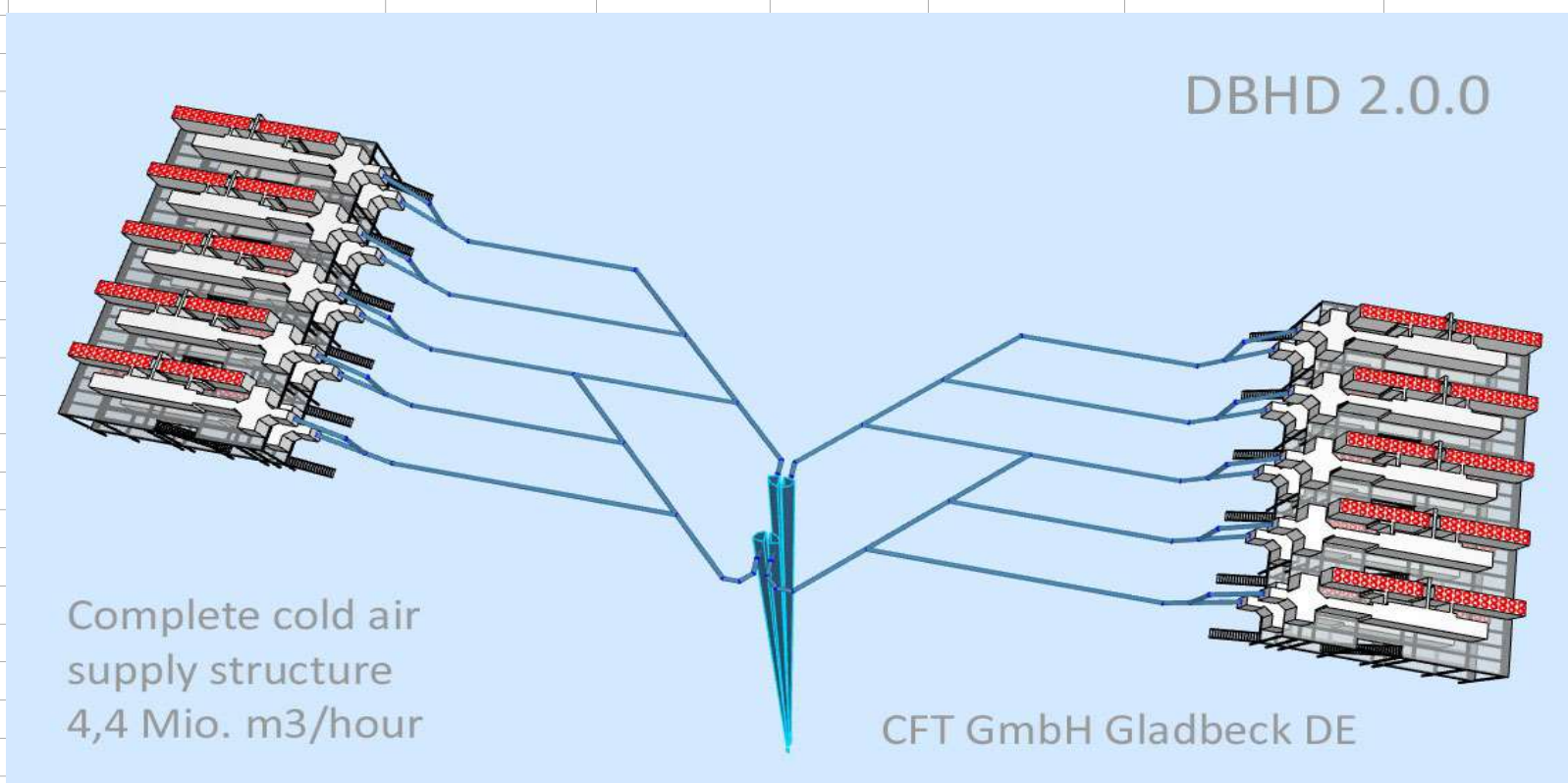


14.	**Steel Structure to carry the …**	2x	Steel	existing techn. plans are in-complete yet	



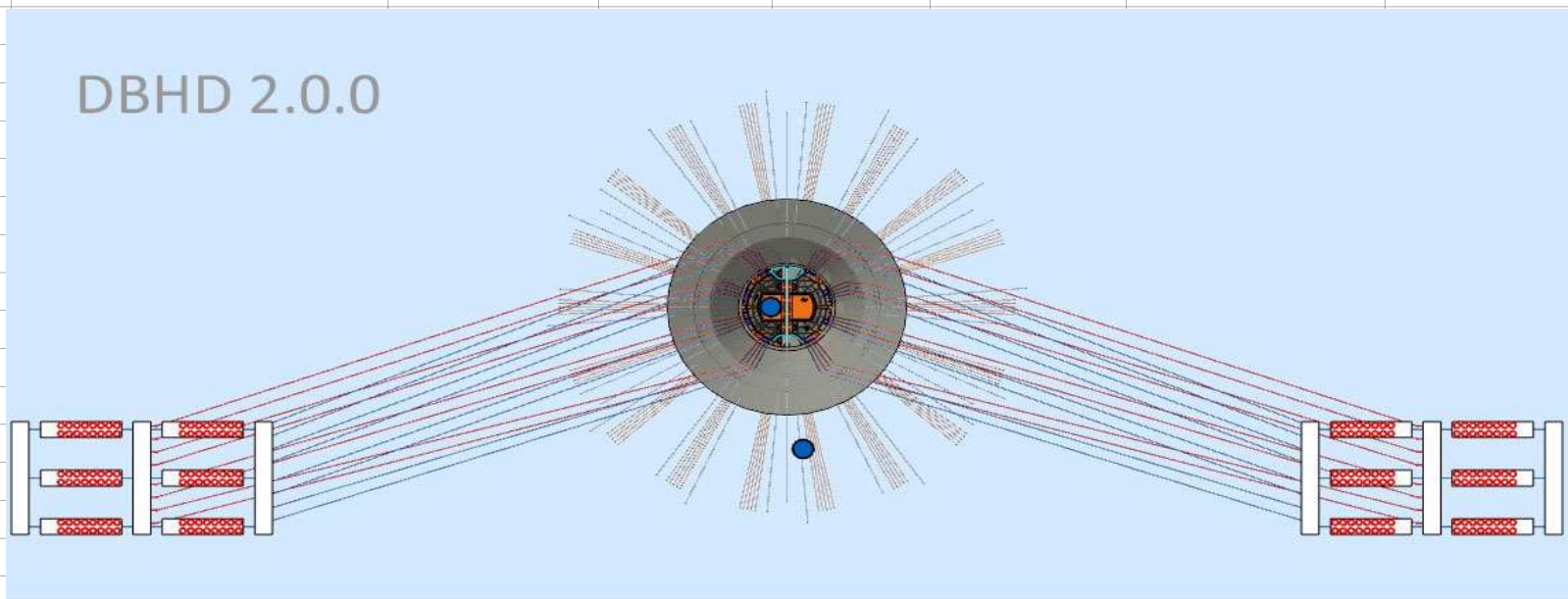
4.627.740 EUR net	2 x frames	**4.627.740**	EUR	Measurement is based on CFT Cooling Mach.
832.993 EUR 18 %	to carry the air-			metal-grid surface to walk on - stairs, more railings
5.460.733 EUR brut	cooling mach.		35.598 m3	we offer in EUR - we are an EU / DE company

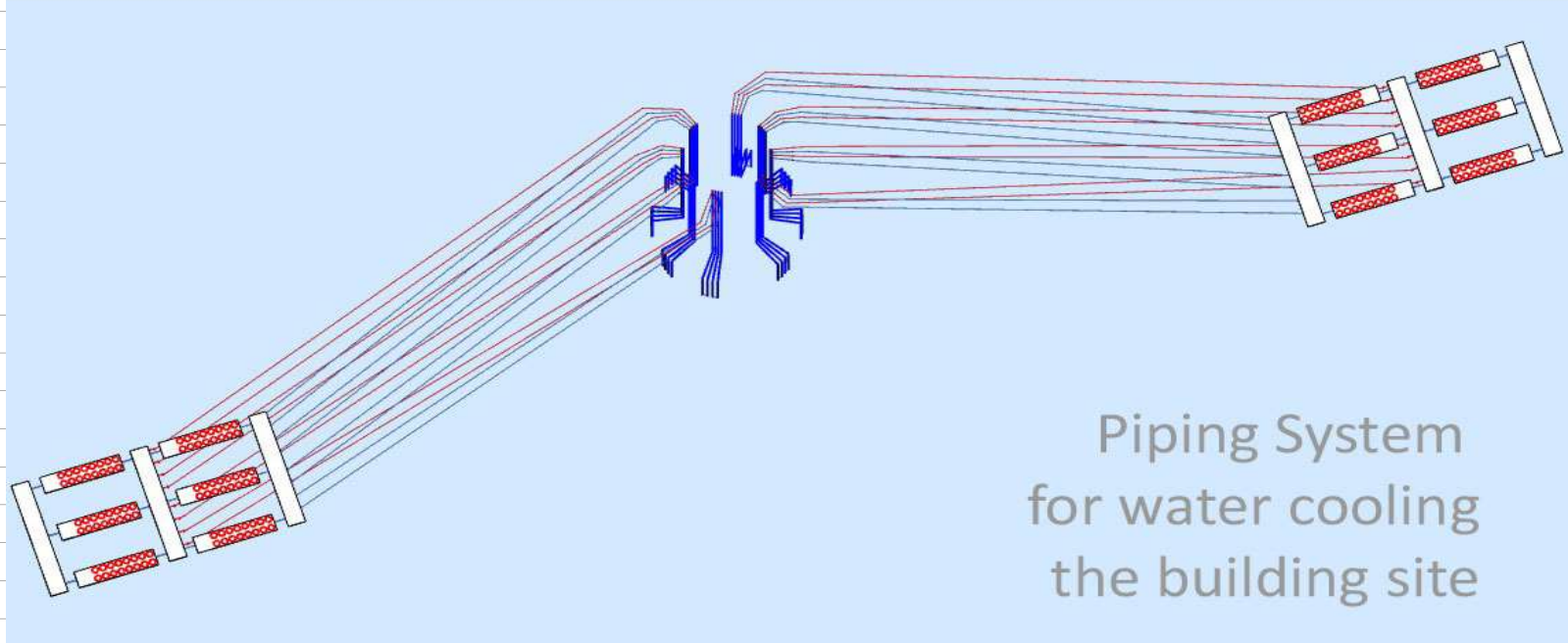
15.	**Piping** to connect cool air	2 sets	Sheat Metal	find more data in techn. plan and .ifc data



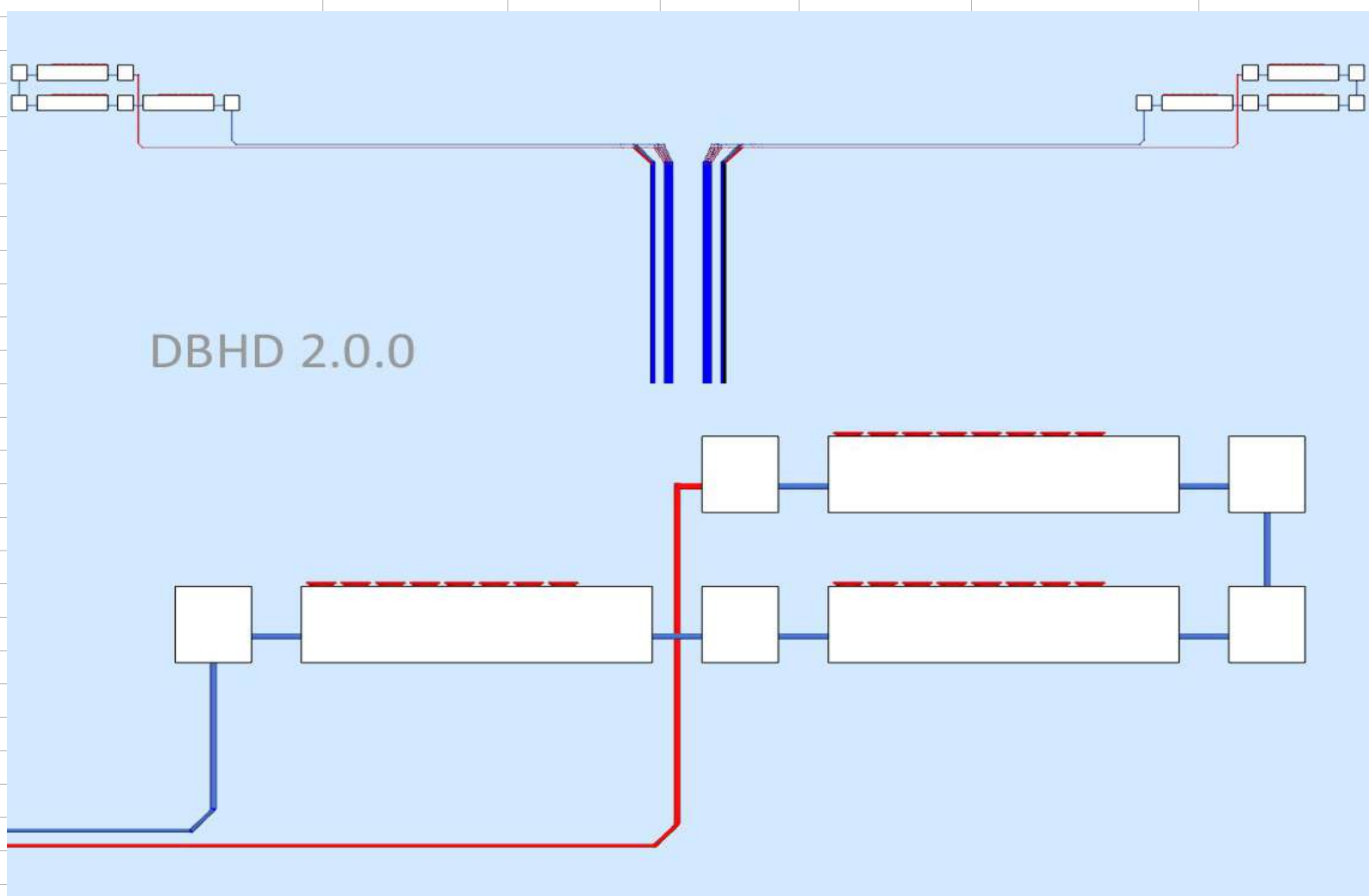
301.440 EUR net	2 x sets horiz.	628 m	depth 4 m	delivery 3 month after 1st paym. + work on site 1 m.
54.259 EUR 18 %	sheet metal	301.440	EUR	connected with flanges and sealings, fixed on site
355.699 EUR brut	piping air-tight		DN 800 mm	we offer in EUR - we are an EU / DE company

16.	**Tubing** to connect cool water	2x	Steel	find more data in techn. plan and .ifc data	



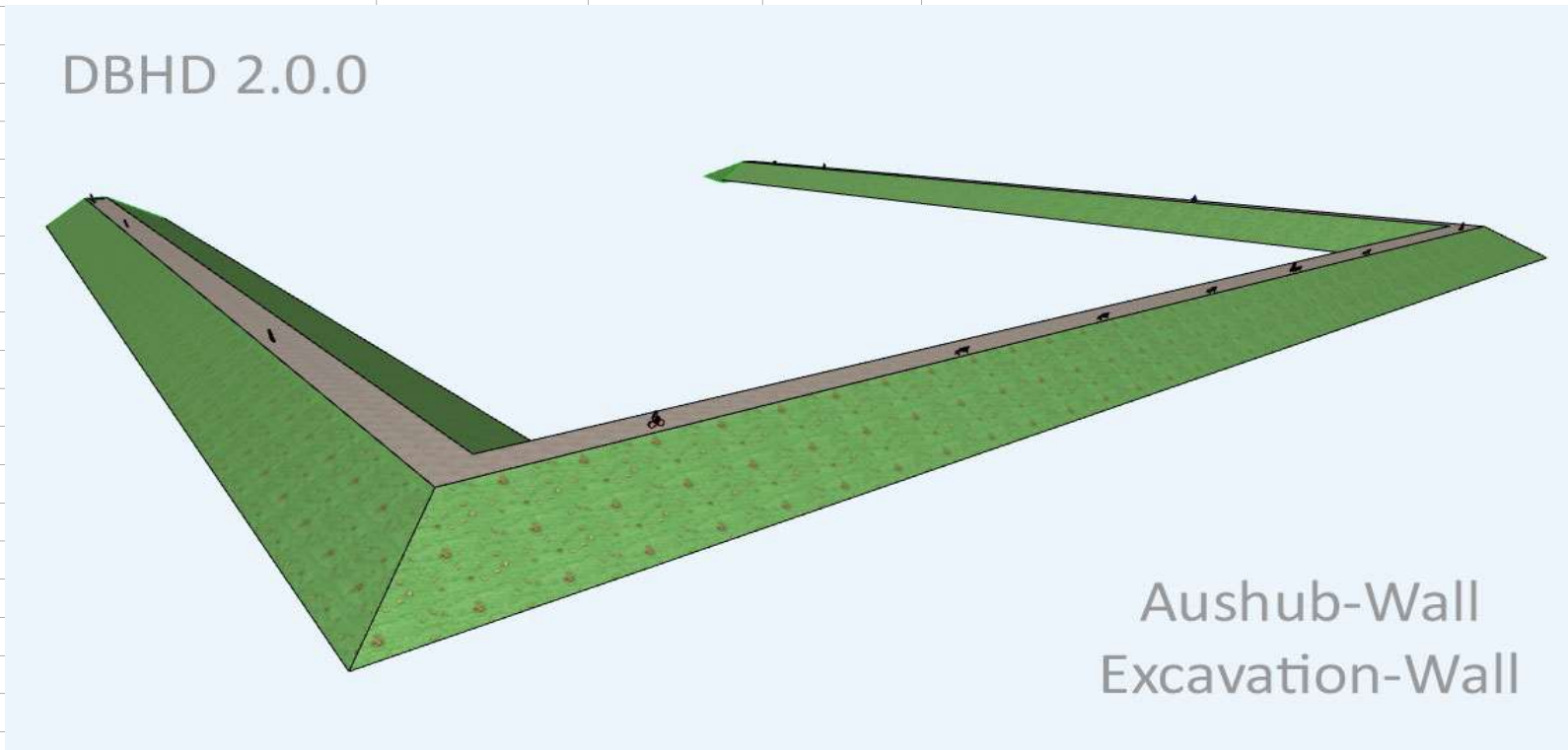


314.000 EUR net	2 x sets horiz.	2.512 m	2,5 m + 3 m	delivery 3 month after 1st paym. + work on site 1 m.
56.520 EUR 18 %	steel tubes	314.000	EUR	connected with flanges and sealings - fixed on site
370.520 EUR brut	water-tight PN16		DN 125 mm	we offer in EUR - we are an EU / DE company

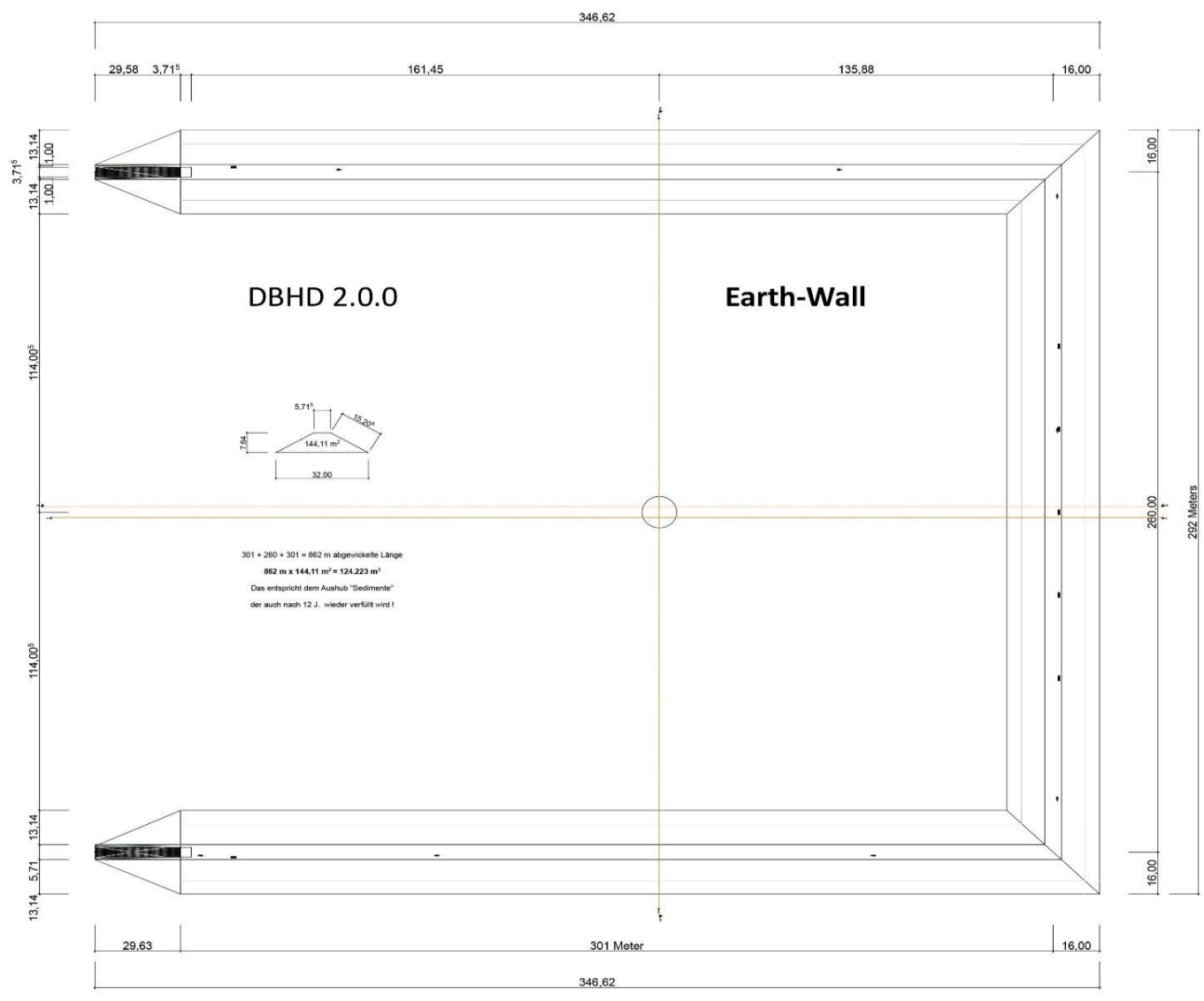


17. **Earth-Wall** from excavation

please follow technical plan - 124.000 m3 take over from shaft - and their is 2x stairs included and sitting benches and cultivate vegetation



306.000 EUR net	124.000 m3	1 Earth Wall		2 years job - only during sediment excavation works
55.080 EUR 18 %	2 man job 2yrs	**240.000**	EUR	take over from hole, carry, build wall, stairs, benches
361.080 EUR brut	**46.000 m2**	**66.000**	EUR	digger on site - but Bestgrid **GEOGITTER** you bring



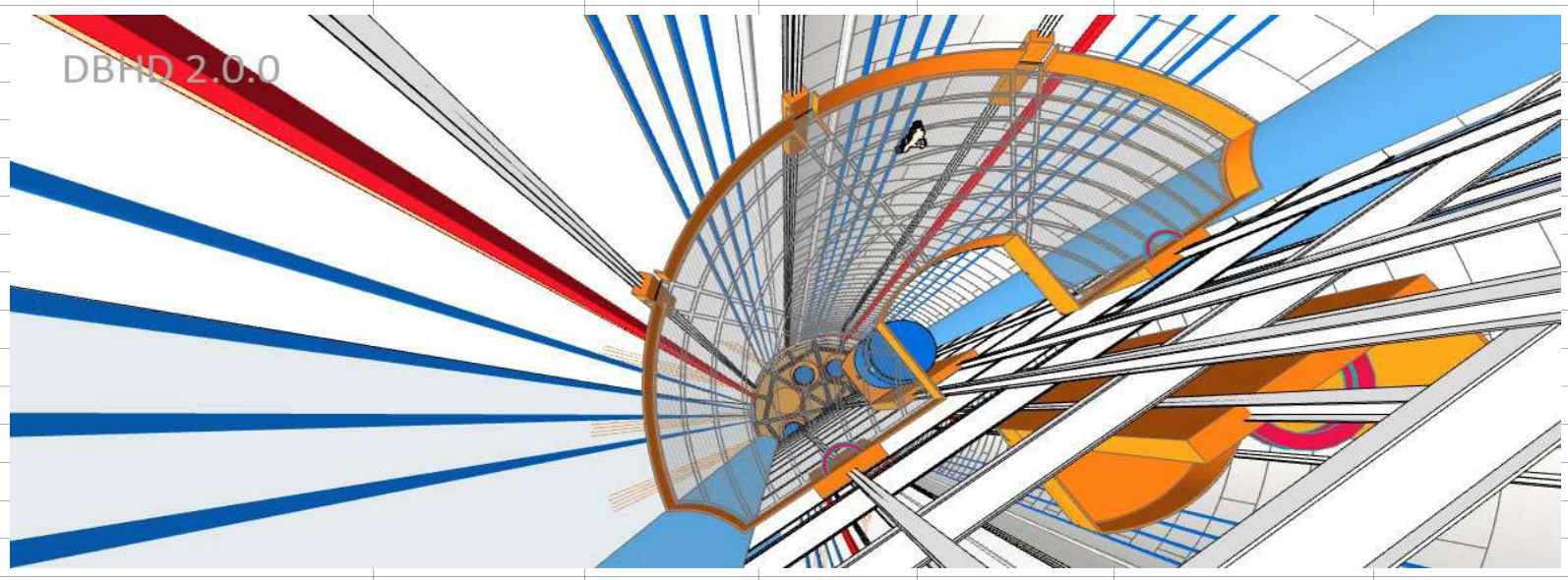
that was all work groups for : Building Site DBHD 2.0.0 GDF Endlager

send your quotes to :

info@ing-goebel.com **and** Postfach 12 06 29, 53048 Bonn, Germany

to be continued soon ...

the work groups for "Shaft" - Building now from here :



this is how the "Steel Shaft" has to look like after being build - that is work for specialized companies

STÜCKLISTE - 1x Stahlbau-Schacht für DBHD 2.0.0 - ANFRAGEN für Baustelle für Endlager HLW

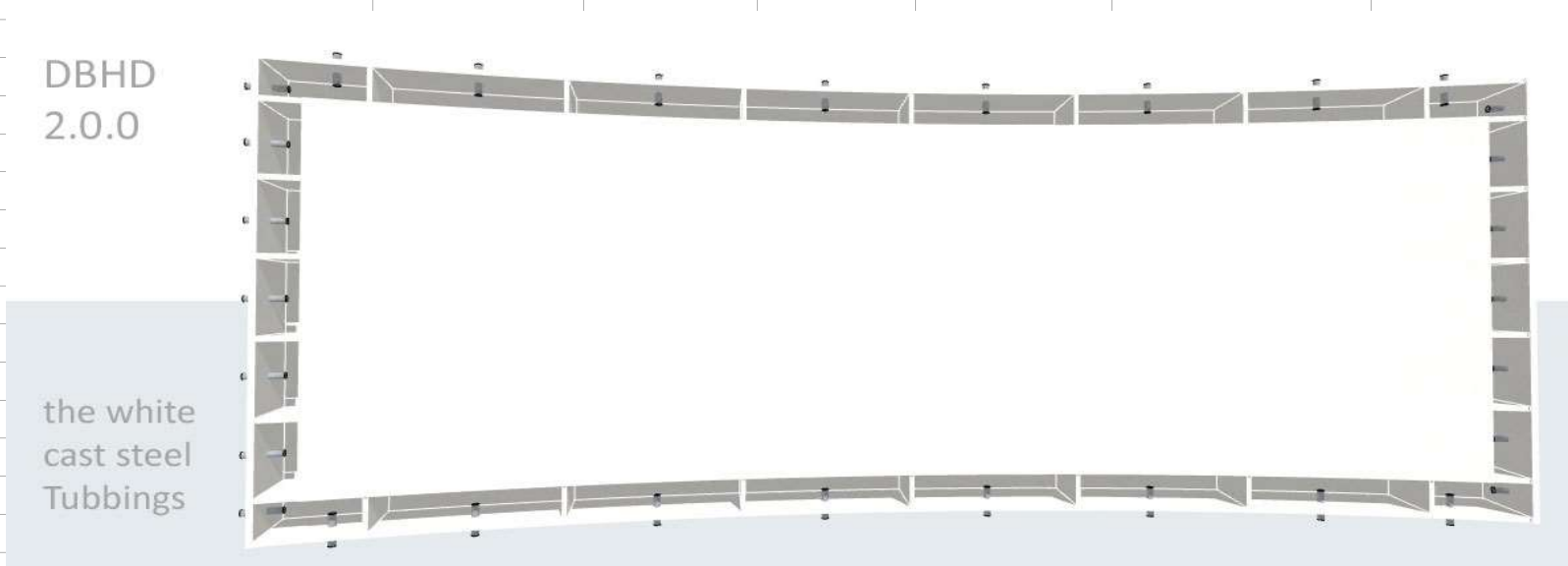
PARTS LIST - 1x steel construction shaft for DBHD 2.0.0 - INQUIRIES for construction site for HLW repository

	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m2	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise ohne Montage)						
						https://www.ing-goebel.de/dbhd-2-0-0-elements/	
		h = 2 Meter				Stahl Gewicht pro Tübbing 3.369 kg	
18.	**Stahl-Tübbinge für D 12**	8 Teile-Ring	3,7 t x 4.400	16.280 tons	Fein-Guss	Zng. Ing. Goebel	2 x 4,6 x 0,25 m
	Schrauben für Tübbinge	13x	4.400	57.200	Verzinkt	Qualität 8.8	M30 x 60
	Muttern für Schrauben	13x	4.400	57.200	Verzinkt	Qualität 8.8	M30
	Sicherungs-Scheiben	13x	4.400	57.200	Verzinkt	keine Federringe	für M30
	Hinterfüllung > Wasserd.	m2	41.448		Hilti-Hit	2K Epoxid-Harz	Hit-Hy-270
	Angebots-Preis Feinguss	t = 25	16.280 tons	**81.400.000**	EUR	Stahl-Tübbinge	3,7 tons / each
	Angebots-Preis Verb.-T.		4.400 sets	**264.000**	EUR	3 er Set	12 kg / set
	Angebots- Preis Epoxid		50,51 € / set	**2.100.000**	EUR	Hinterfüllung !!	

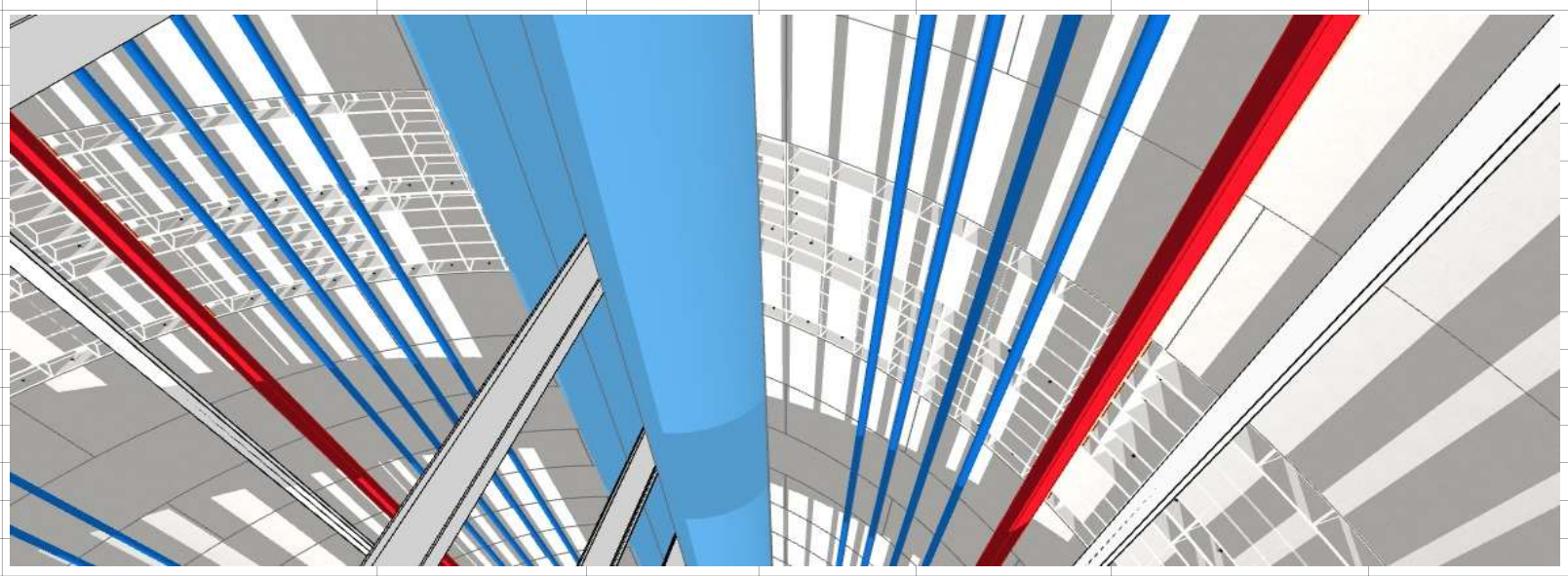
Den Stahl-Tübbing für D 12 m müssen Sie erst einmal selbst zeichnen oder in der .ifc Datei finden

Die Bemessung für die Eignung ist nicht vom Hersteller des Stahl-Guss-Bauteils zu erbringen

Die Stärke des D 12 Tubbing Elements sieht Ing. Goebel bei 15 mm plus aufgeschweisste weisse Platte

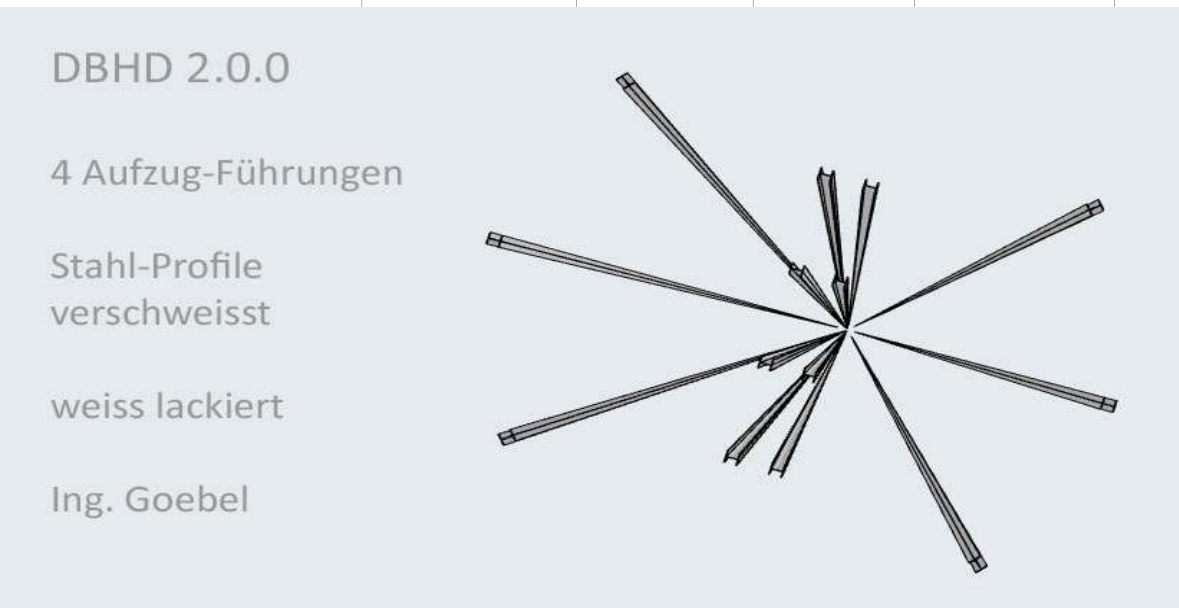


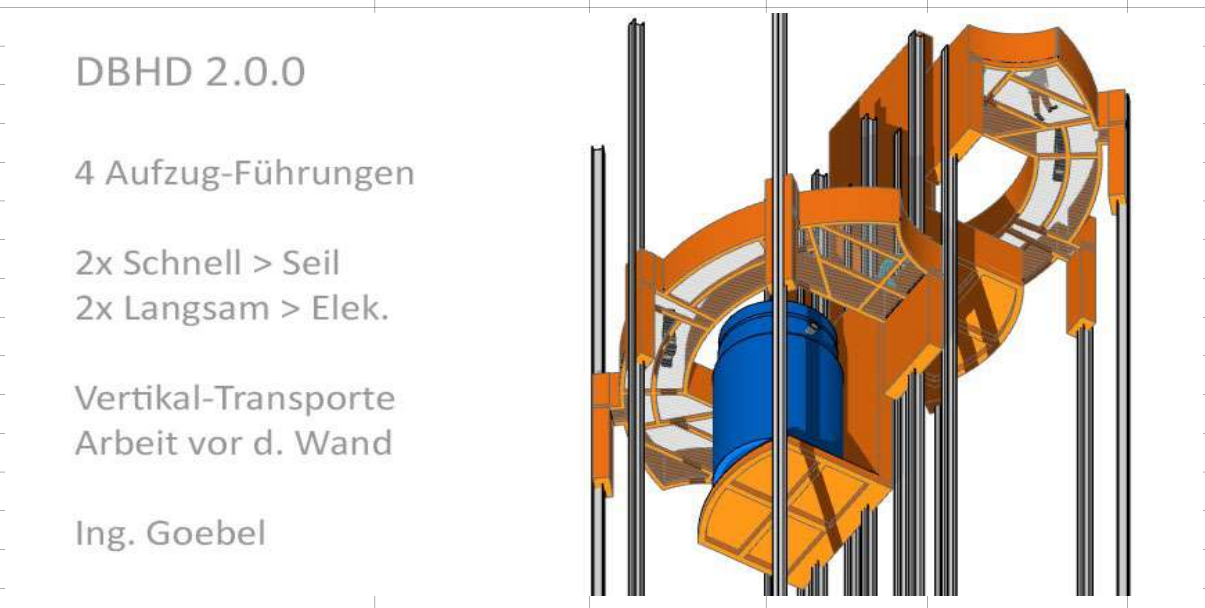
the white closing plate can be welded onto the poured / casted steel tubbing



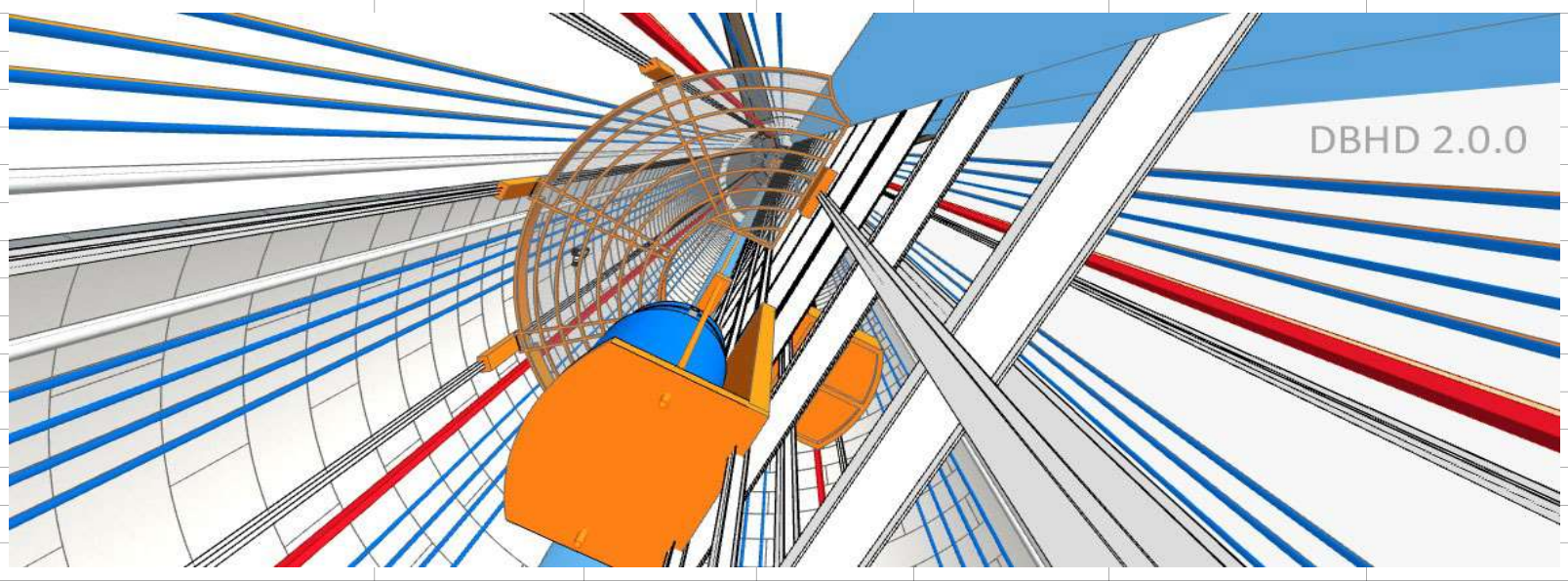
we want a clean shaft - all steel elements are coated with color and can be "kärchert" with water pressure

	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m2	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise MIT Montage)						
						Fixlänge : 13,5 m.	(Pellet+Fuge)
19.	**Führungs-Schienen Aufz.**	14x im D 12 m.	1.100 m	15.400 m	1.281 Tons.	weiss-lackiert	HEB 240
	Führungs-Schienen Aufz.	14x im D 20 m.	1.100 m	15.400 m	1.281 Tons.	weiss-lackiert	HEB 240
	Angebots-Preis Fixlängen	2.562 Tons	30.800 m.	**3.843.840**	EUR	Fixlängen 13,5 m	HEB 240
							83,2 kg/m.





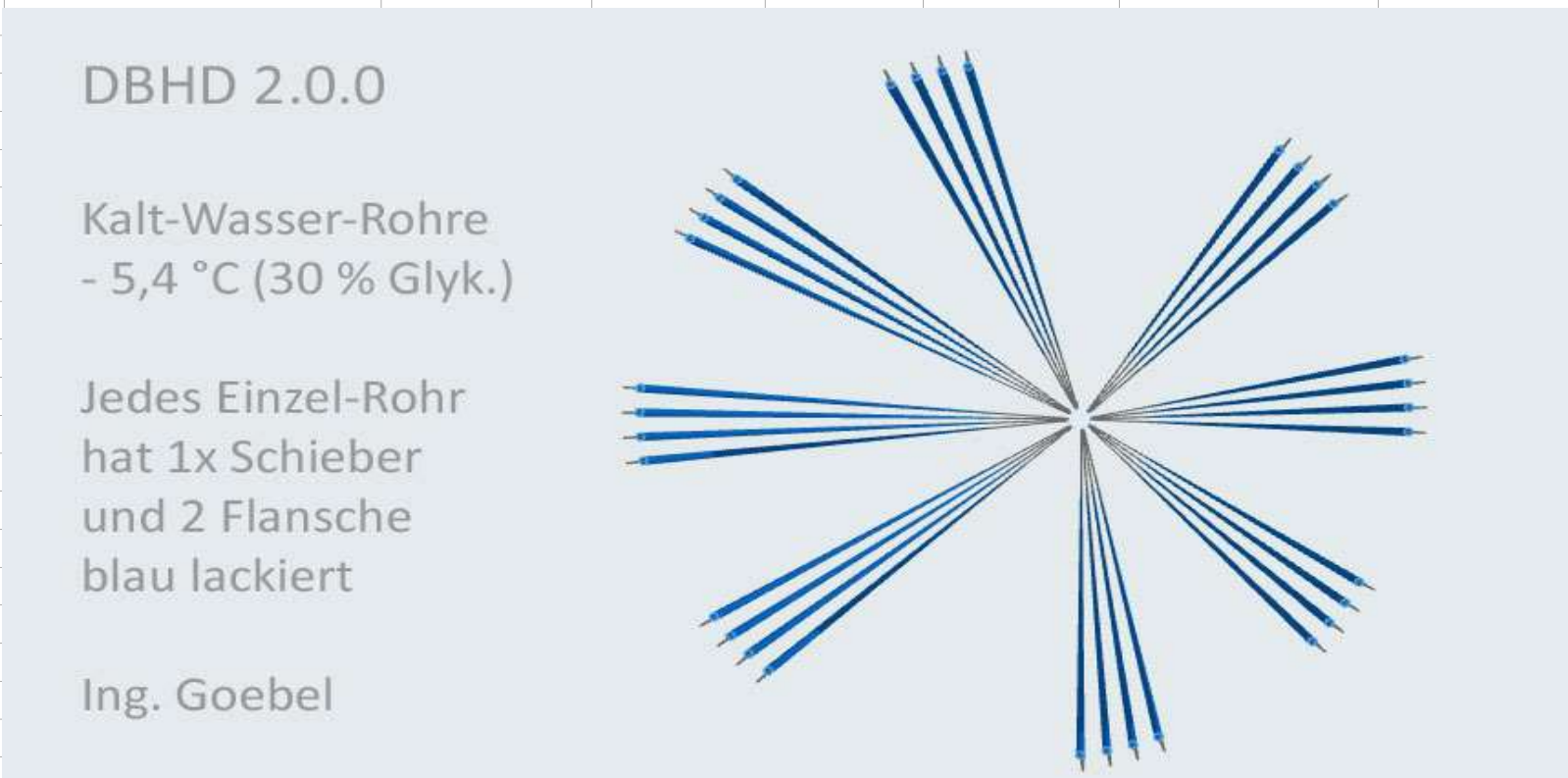
20.	**Aufzugs-Plattform** am Seil	2 x 2 = 4	4 Stück	Stahl/ PTFE	bis 160 Tons.	Sicherheit x 1,6	Typ 1 schnell
	Aufz. Plattform elektr. D 12	2 x 4	8 Stück	Stahl/ PTFE	bis 18 Tons	Sicherheit x 1,6	Typ 2 langsam
	Aufz. Plattform elektr. D 20	2 x 4	8 Stück	Stahl/ PTFE	bis 18 Tons	Sicherheit x 1,6	Typ 2 langsam
	Angebots-Preis Entwicklung	we offer you :		1.200.000	EUR	F & E	Development
	Angebots-Preis Typ 1		4 Stück	80.000	EUR		orange lackiert
	Angebots-Preis Typ 2		16 Stück	2.400.000	EUR		orange lackiert



this how the 2 x 2 elevator systems have to work in the shaft

	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m2	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise ohne Montage)						
						Fixlängen 13,5 m	Flansch-Höhen
21.	**Kühl-Wasser Rohre** im D 12	32x im D 12	1.100m	35.200 m	Rund-Rohr	Stahl-blau lackiert	DN 125 x 10 mm
	Kühl-Wasser Rohre im D 20	32x im D 20	1.100m	35.200 m	Rund-Rohr	Stahl-blau lackiert	DN 125 x 10 mm
	Flansche PN 6 bis PN 320	64x	164 Stück	10.496 Sück	2 Stk / Rohr	Stahl-blau lackiert	alt. elektrisch
	Schieber PN 6 bis PN 320	64x	82 Stück	5.248 Stück	Hand-Rad	Stahl-blau lackiert	alt. elektrisch
	Stell-Antriebe für Schieber	64x	82 Stück	5.248 Stück		**alles DN 125 - Decision April 2021**	
	Angebots-Preis Rohre	PN 16 - PN 320	70.400 m		EUR		
	Angebots-Preis Flansche	PN 16 - PN 320	10.496 Stk		EUR	we had a first calculation	
	Angebots-Preis Schieber	PN 16 - PN 320	5.248 Stk		EUR	still waiting for your quote	
	Angebots-Preis Stellantriebe	PN 16 - PN 320	5.248 Stk		EUR		

Die DN 125 Verrohrung müssen Sie sich **aufskizzieren** um die Bereichen PN16 bis PN 320 richtig bewerten zu können !



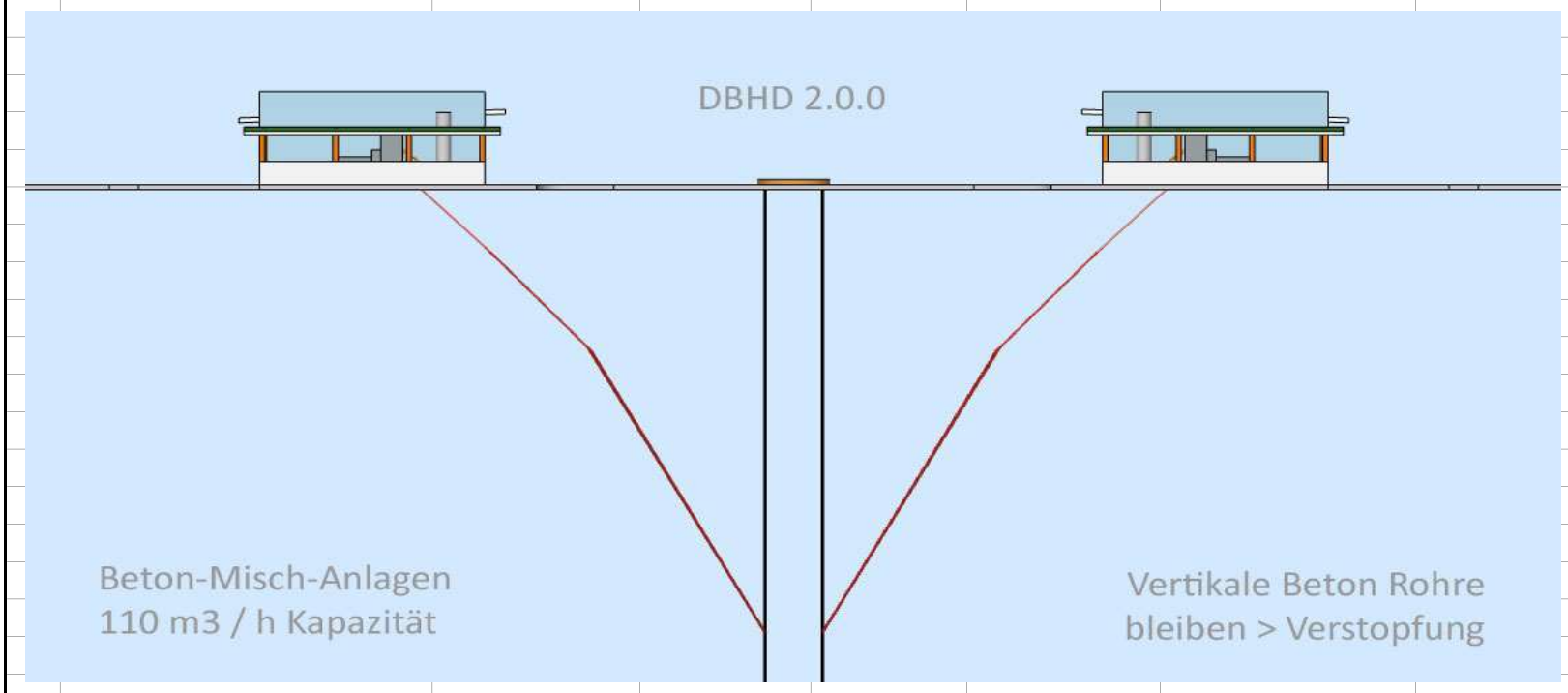
Achtung - mit zunehmender Wassersäule steigt der Druck in den Rohren - oben max 16 aber unten ca. 320 bar
Attention - with increasing water column the pressure in the pipes increases - at the bottom approx. 320 bar

Alle Fertig-Elemente sind einer Druck-Prüfung über 5 min mit 16 bis 320 bar zu unterziehen
Die Fertig Elemente sind mehrfachst mit der Druckstufe PN16 bis PN320 zu kennzeichnen

Flansch - Rohr - Schieber mit Flansch = ein Stück Rohr mit Wechsel-Länge / Fix-Länge 13,5 Meter
es werden nur lackiert 13,5 Meter Elemente auf die Baustelle geliefert - Schrauben in Tüten dazu

	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m2	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise ohne Montage)						
							minus
						Fixlängen 13,5 m	**Flansch-Höhen**
22.	**Beton-Zuliefer Rohre unten**	4x im D 12	1.100m	4.400 m	Rund-Rohr	Stahl-grau lackiert	219 x 8 mm
	Beton-Zuliefer Rohre unten	4x im D 20	1.100m	4.400 m	Rund-Rohr	Stahl-grau lackiert	219 x 8 mm
	Angebots-Preis Beton Rohre		8.800 m	**924.000**	EUR	41,65 kg/m.	
	Angebots-Preis Elektr. Leer.		8.800 m	**400.000**	EUR		

23.	**Beton-Zuliefer Rohre oben**	2 sets	204 meters	Steel DN 400	the problem is building them in 97 m deep (45°)

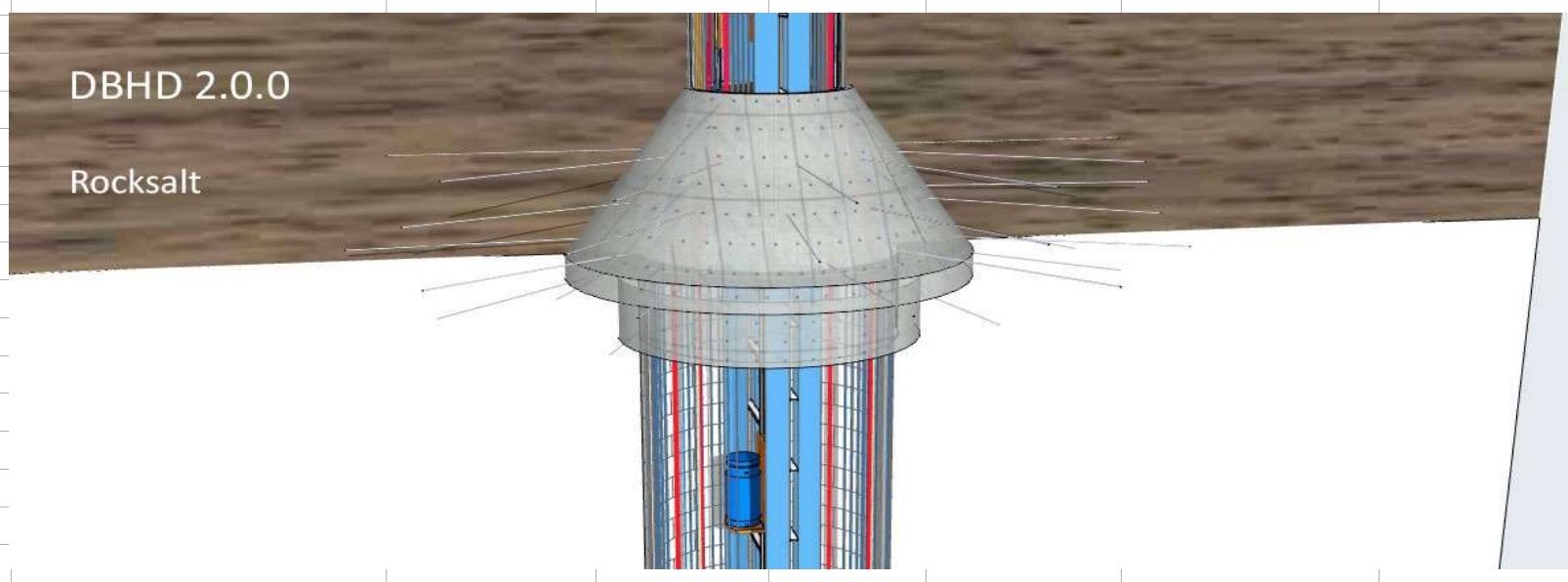


96 ,55 m = deepest point - not easy to build !!! **And one set of concrete pipes go straight up - as a reserve option**
but the real concrete feeder pipes are under 45 ° and connect mixing batch with shaft - not easy ! 96,55 m deep !!!

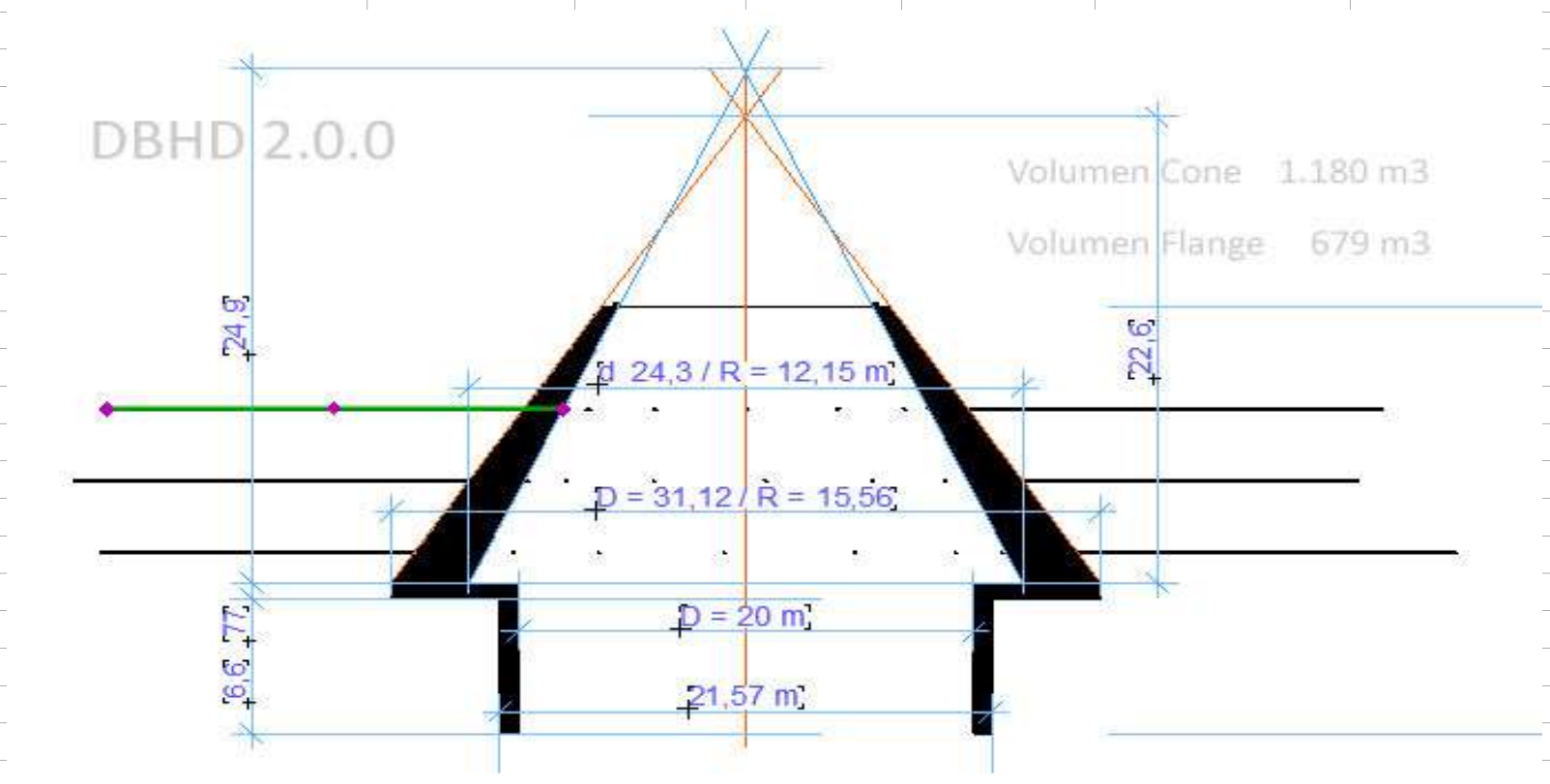
Your quote net	2 sets	203,77 m	407.54 m	quotes to this are very welcome and honored
Country taxes	concrete delivery	**520 .000**	EUR	draft architect does not know any technology
Your qoute brut	tubes under 45 °			required for such task - we offer you money
	fixed on site			DN 400 - round tubes - t = 5 mm - flanges

24.	**Konus** für Durchm.-Wechsel	1x		1.180 m3	Ort-Beton	Zng. Ing. Goebel	im Steinsalz
	Flansch f. Durchm.-Wechsel	1x		679 m3	Ort-Beton	Zng. Ing. Goebel	im Steinsalz
	Stäbe für zus. Verankerung	36x	20 m	720 m	Rund-Stahl	Zng. Ing. Goebel	D = 20 mm
	Preis Konus MIT Montage		1.180 m3	590.000	EUR	Grob-Bauteil	
	Preis Flansch MIT Montage		679 m3	339.500	EUR	Grob-Bauteil	
	Preis Verankerungen MIT M.		720 m	14.400	EUR	Monier-Eisen	
	Summe Pos. 24			943.900	EUR	netto, LZ 3 Monate	50 % Anz.

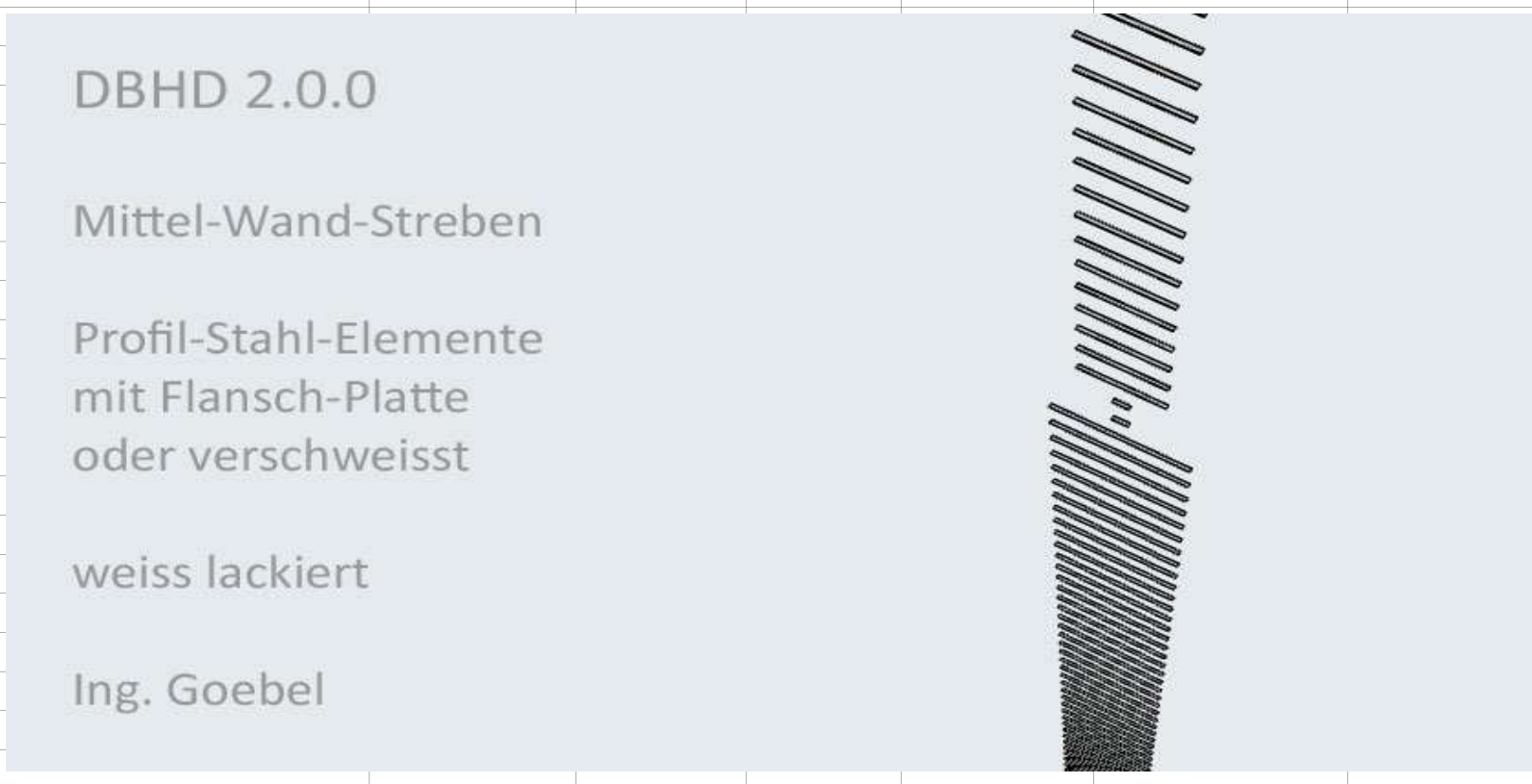
Konus und Flansch sitzen zu hoch - die müssen zur Unterkante der Verschluss-Strecke = ca. 300 Meter tiefer !



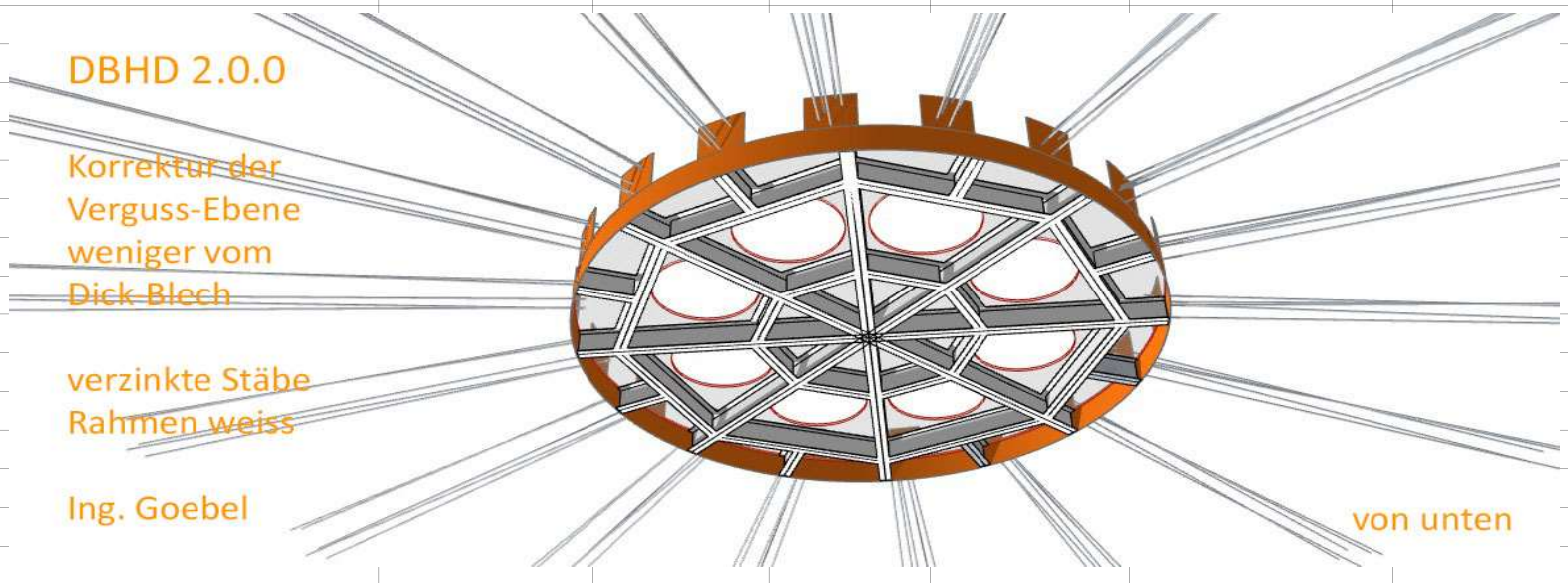
the measurement for " cone and flange " you find in the technical drawings



		Fixlängen	alle 6 m.				
25.	**Mittel-Wand-Träger D 12**	11,58 m	1.100 m	2.119 m	Profil-Stahl	weiss-lackiert	HEA 600
	Mittel-Wand-Träger D 20	19,30 m	1.100 m	3.532 m	Profil-Stahl	weiss-lackiert	HEA 600
	Angebots-Preis HEA 600 Fixl.		5.651 m	**2.169.984**	**EUR net**		

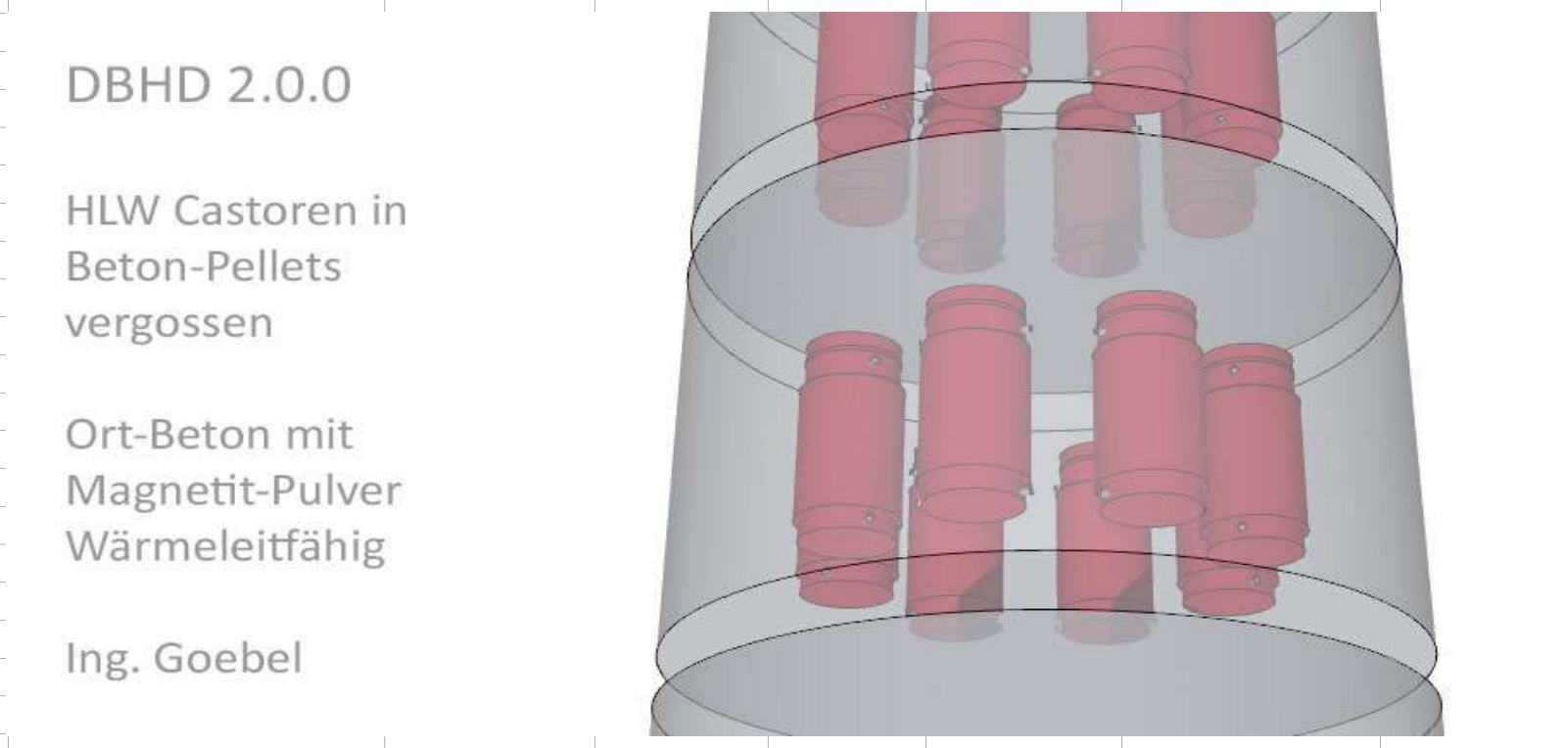


	Bauteil-Name	**Anzahl pro Bauteil**	**Meter o. Bauteile oder m2**	**Menge Preis Meter**	**Matrial Preis**	**Hinweise Qualität**	**Sonstiges**
	(Preise ohne Montage)						
		D = 19.90 m	Fix-Längen	990 x 450	Abnahme Ebene nach ober-irdischer Vor-Montage		
26.	**Verguss-Plattform** für D 20	8x	9,95 m	79,60 m	Profil-Stahl	weiss-lackiert	(HEA 1000)
	max. 160 T. entfällt !	8x	6,21 m	49,68 m	Profil-Stahl	weiss-lackiert	(HEA 1000)
	2 Winden ziehen 2x 160 T	8x	2,63 m	21,04 m	Profil-Stahl	weiss-lackiert	(HEA 1000)
	folgen Sie der techn. Zeichn.	8x	2,09 m	16,72 m	Profil-Stahl	weiss-lackiert	(HEA 1000)
	Dick-Blech-Rand	h 2,6	L 62,8 m	164,28 m2	Band-Stahl	orange-lackiert	t = 26 mm
	Rück-V.-Stäbe auf Scherung	90x	20 m	1.800 m	Rund-Stahl	verzinkt	20 mm
	Lichtgitter massiv	1	310,9 m2	310,9 m2	Lichtgitter	verzinkt	t = 50-100 mm
					Beton fällt durch - aber begehbar		
	Angeb.-Preis- Verguss-Ebene	2x 314 m2	**1.600.000**	EUR	2 Bauteil-Sets Verguss-Ebene		max. 160 T. !!!
					Vormontage geschraubt - Einsatz verschweisst		
					Eine Verguss-Ebene im Einsatz - eine in Reserve		

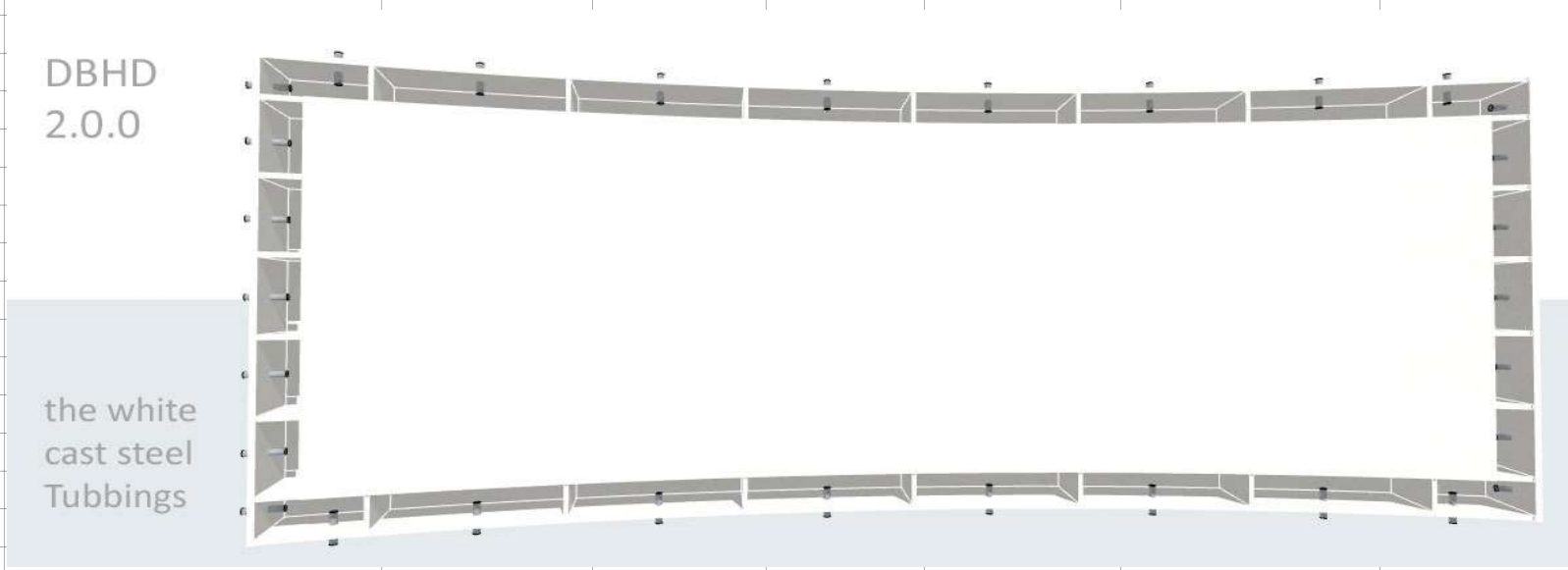


	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m3	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise ohne Montage)						
27.	**Beton-Pellets** D = 20 m	59 Pellets	2.590 m3	152.810 m3	Beton und 8 %	Netto ohne Castoren	h = 12 m
					Magnetit Pulver	Verguss macht DBHD	
	Sand-Dehnfugen D = 20 m	60 Schichten	471 m3	28.260 m3	Korn 1-5 mm	trockener Sand	h = 1,5 m
	Angebots-Preis für Beton	**152.810 m3**			EUR	frei Schachtkopf	**Kubikmeter-**
	Angebots-Preis für Sand	**28.260 m3**			EUR	frei Schachtkopf	**Angaben !!**
	Angebots-Preis für Magnetit	**4.130 m3**			EUR	frei Schachtkopf	**nicht Tonnen**

An dieser Stelle wird die Endlagerung so richtig teuer - wir bitten alle Schulen und Kindergärten um Entschuldigung
Zeichnen Sie Pellet h12 m und Dehnfuge h1,5 m - Einlagerung erfolgt im D 20 m Bereich - Beton-Rezeptur beilegen.



	Bauteil-Name	Anzahl pro Bauteil	Meter o. Bauteile oder m3	Menge Preis Meter	Matrial Preis	Hinweise Qualität	Sonstiges
	(Preise ohne Montage)						
		h = 2 Meter				Stahl-Gewicht pro Tübbing 4.717 kg	
28.	**Stahl-Tübbinge für D 20**	12 Teile-Ring	4.7 t. x 6.600	31.132 tons	Fein-Guss	Zng. Ing. Goebel	2 x 5,175 x 0,35 m
	Schrauben für Tübbinge	13x	6.600	85.800	Verzinkt	Qualität 8.8	M30 x 60
	Muttern für Schrauben	13x	6.600	85.800	Verzinkt	Qualität 8.8	M30
	Sicherungs-Scheiben	13x	6.600	85.800	Verzinkt	keine Federringe	für M30
	Angebots-Preis Feinguss	t = 35 cm	**31.132 tons**	155.661.000	EUR	Stahl-Tübbinge	**4,717 t. / Stk.**
	Angebots-Preis Verb.-T.		6.600 Sets	495.000	EUR	3 er Set	15 kg / set



Dieses Bauteil müssen Sie erst einmal selbst für D = 20 m im Detail konstruieren - oder als 3D Teil im .ifc Datensatz

					4 x 2,1 m2	Fixlängen 13,5 m	3-Seiten Rohr
29.	**Kalt-Luft Blech-Rohre** D12	4x im D 12	1.100m	4.400 m	Blech-Rohr	hellbau lackiert	2,10 qm
	Kalt-Luft Blech-Rohre D20	4x im D 20	1.100m	4.400 m	Blech-Rohr	hellblau lackiert	2,10 qm
	Angebots-Preis Blech Rohre		8.800 m	**1.892.000**	EUR	Blech, gerollt, gekantet - PopNieten	
						lackiert - **Befestigung ungeklärt !**	

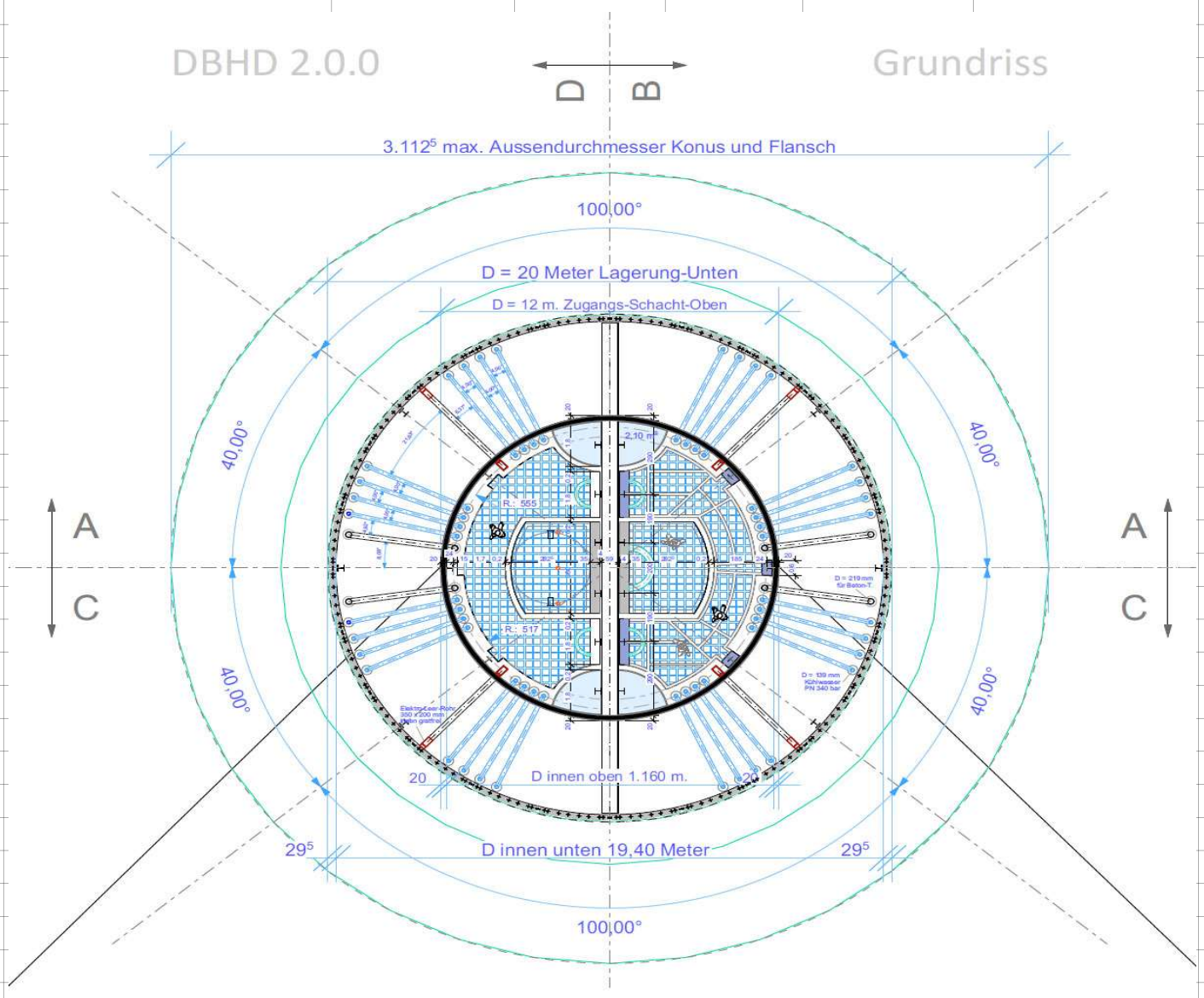
30.	**Electricity Plan and Install**	1 set	**4.000.000**	EUR	electrical planning and electrical installations
31.	**Water IN - Water OUT**	1 set	**2.000.000**	EUR	to water cooling system, office, workshop, toilets
	Plan and Install				Wasserversorung und Kanalisation
32.	**Building Land**	**363 x 300 m**	**13.068.000**	EUR	on top of a deep and fat and GDF able geology
	better you buy	**2x 100 x 300 m**	**7.200.000**	EUR	street connection essential / train track welcome
33.	**Trucks / Dump-Trucks**	20 x 33 tons	577.760 tons	**3.040.000**	driving away salt - doing transport - cities and BGE
	calculated : MB 3345 AK	**17.508 Tours**	each 300 km	**2.605.172**	for Diesel fuel - **that is rather a train transport**
34.	**Radlader - Digger**	4x L509 Tele	4x Cat 313 GC	**720.000**	Filling Concrete Mixer Batch - and Earth-Wall build
		156.000 m3	124.000 m3	**500.000**	Diesel fuel for Radlader and Diggers/Bagger
35.	**Car-Cranes**	2x 1.300.000	**2.600.000**	EUR	same size - to lift 160 tons each Castor handling
36.	**Staff - Workers**	50 x 120.000	6.000.000 / J.	EUR	shaft - shaft - shaft - site - workshop - office
		12 years	**72.000.000**	EUR	12 yrs = 1 hole /// 36 yrs = 3 holes
					only 4 hours shift inside shaft - prices DE

First complete Calculation !
Stand - 28.04.2021 - Vers. 13
http://www.ing-goebel.com

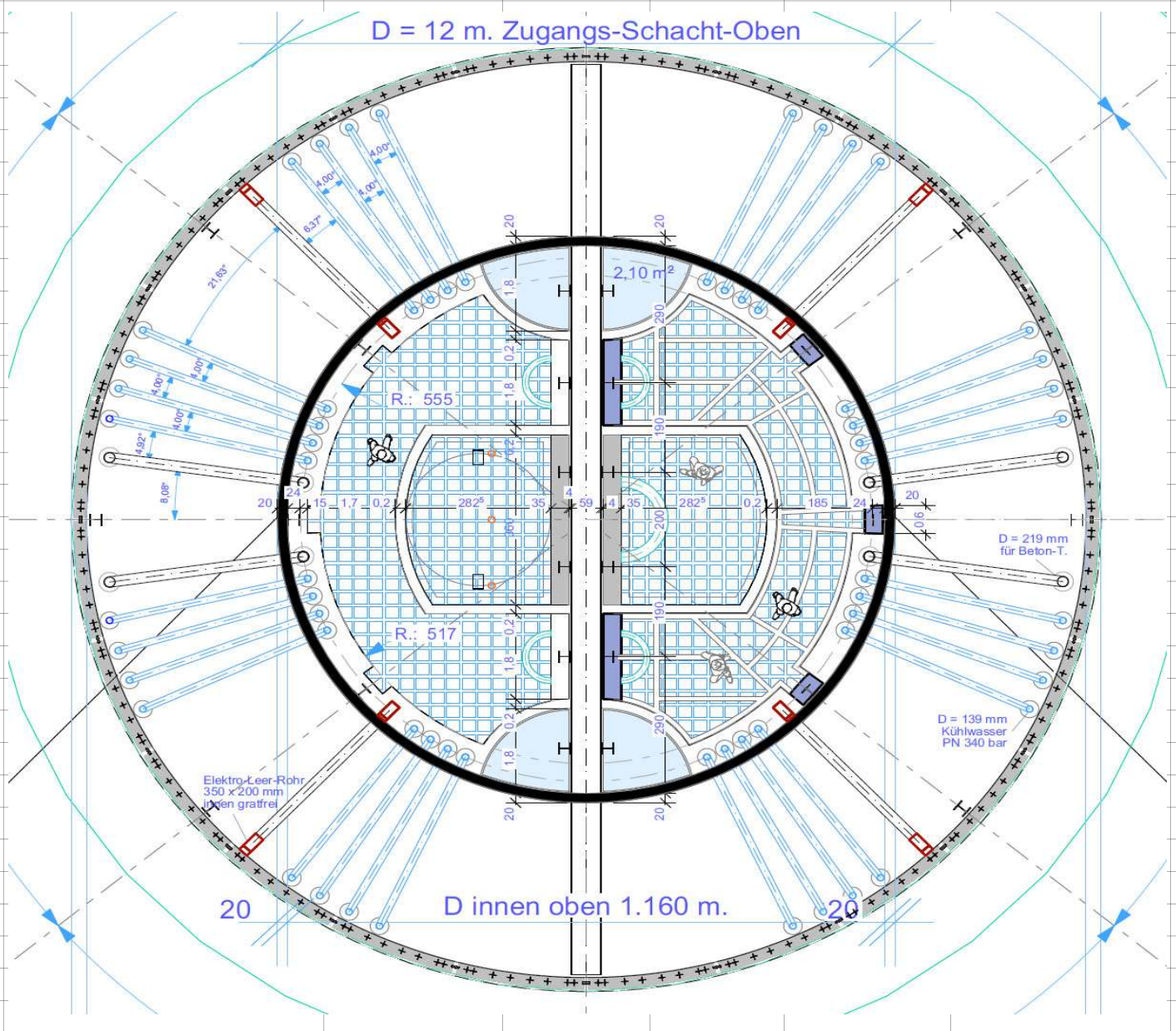
Angebote / Quotes bitte an : Herrn V. Goebel " info@ing-goebel.com "
"und" an das Postfach 12 06 29, 53048 Bonn, Germany - and to PO box

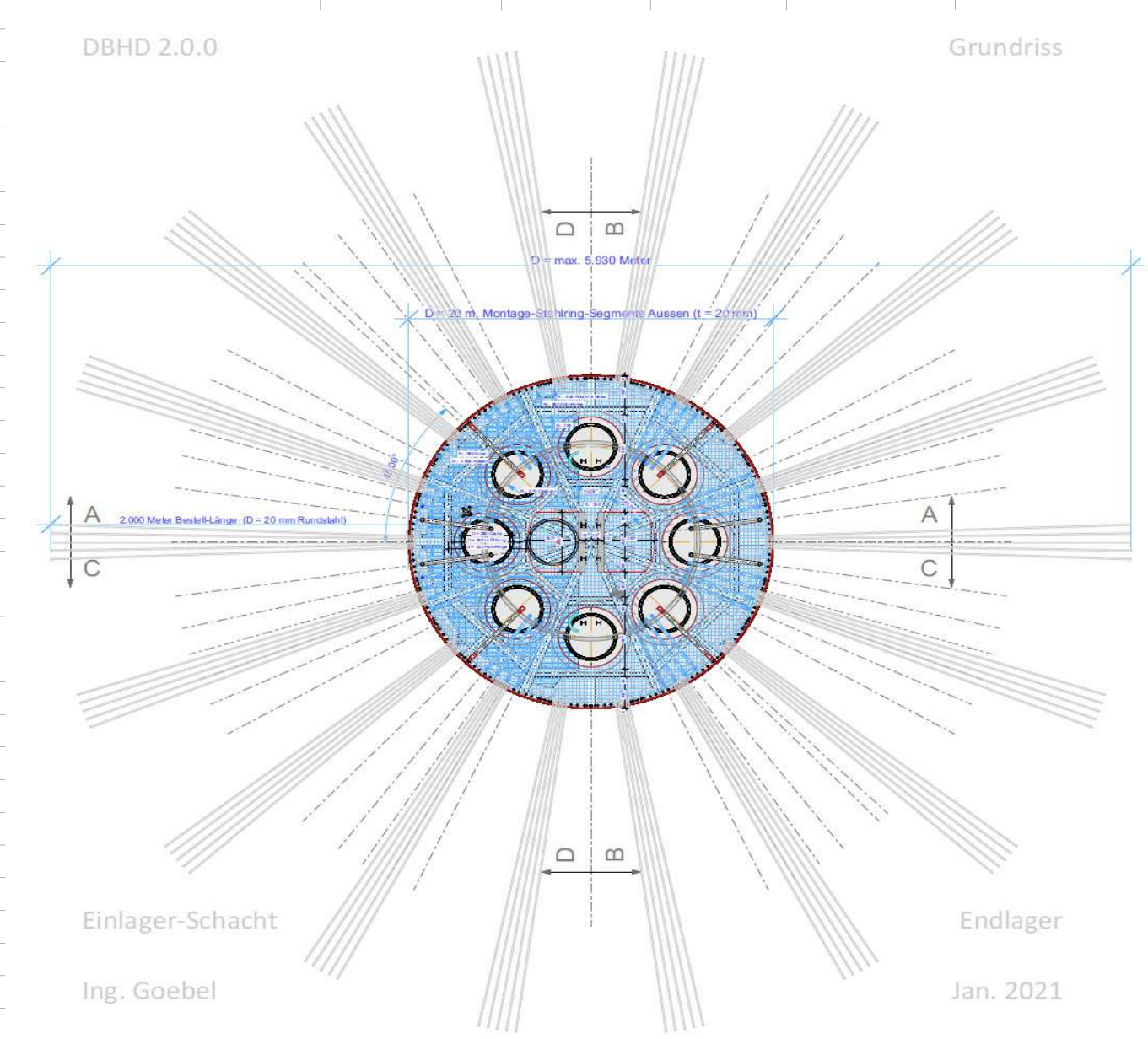
DBHD 2.0.0

Grundriss



vollständig lesbarer Grundriss nur im .pdf - „01 DBHD 2.0.0 Cuts - Endlager GDF - Ing_Goebel_Germany“





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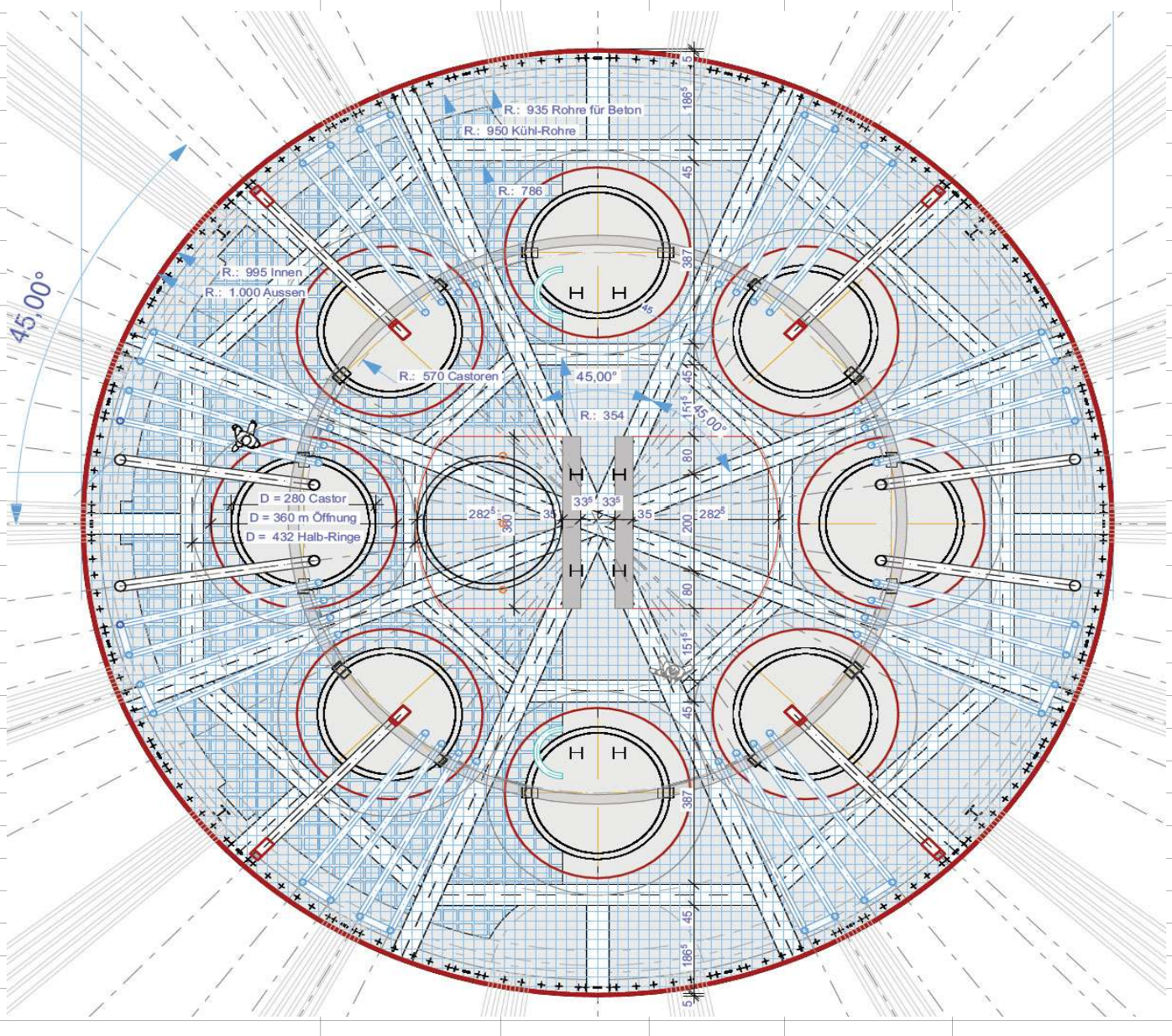

SBR Vertical Drill Belarus