

diamonds

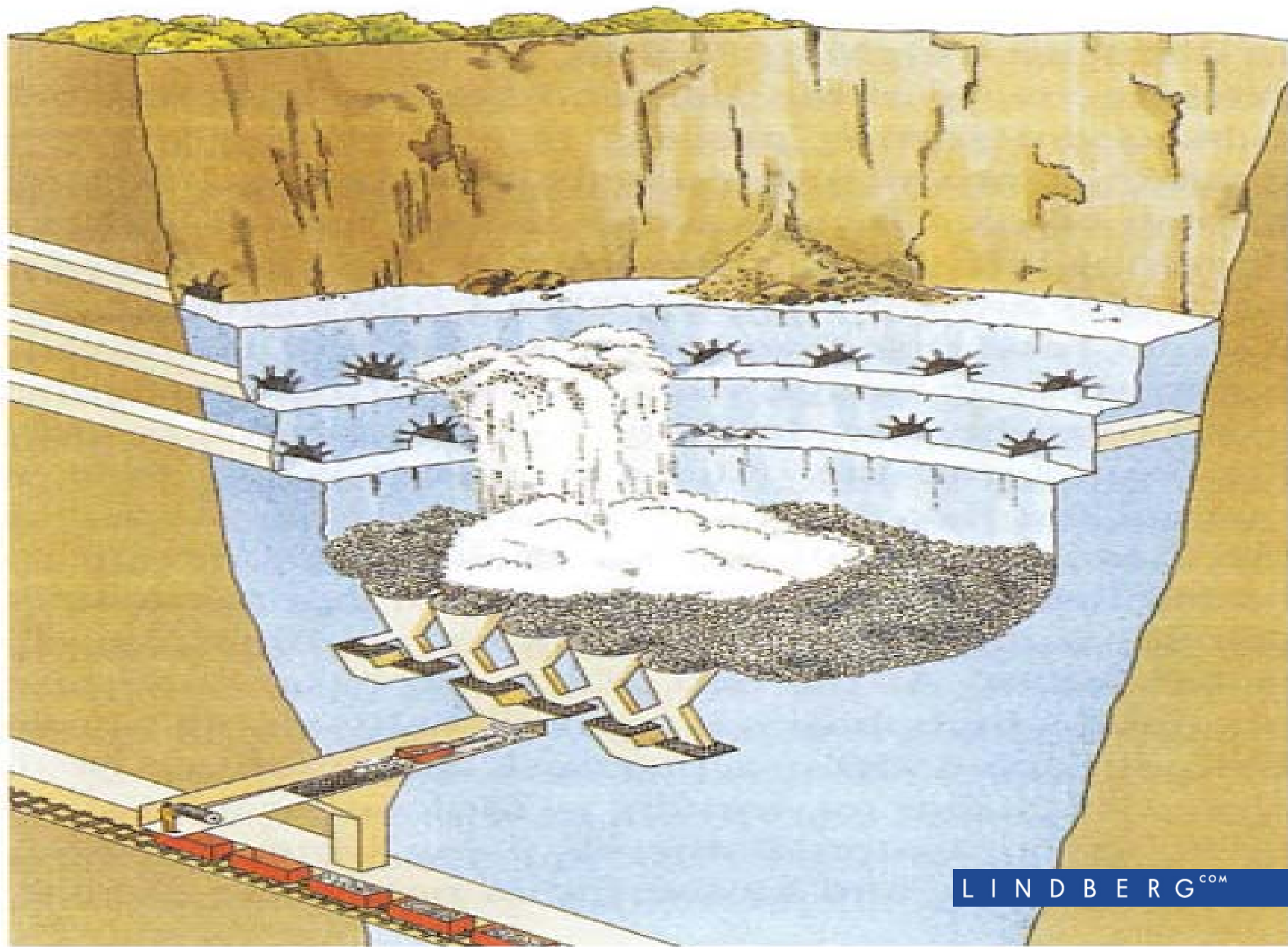


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LBJ Como 2006

origin

- diamonds can be mined where you find the mountain type “kimberlit”, you need to mine approx. 2 tonnes to find 1 carat of diamond =0,2 g.
- 20% of the production world wide is used for jewellery. the rest is used in the industry for drilling, milling and grinding.



quality

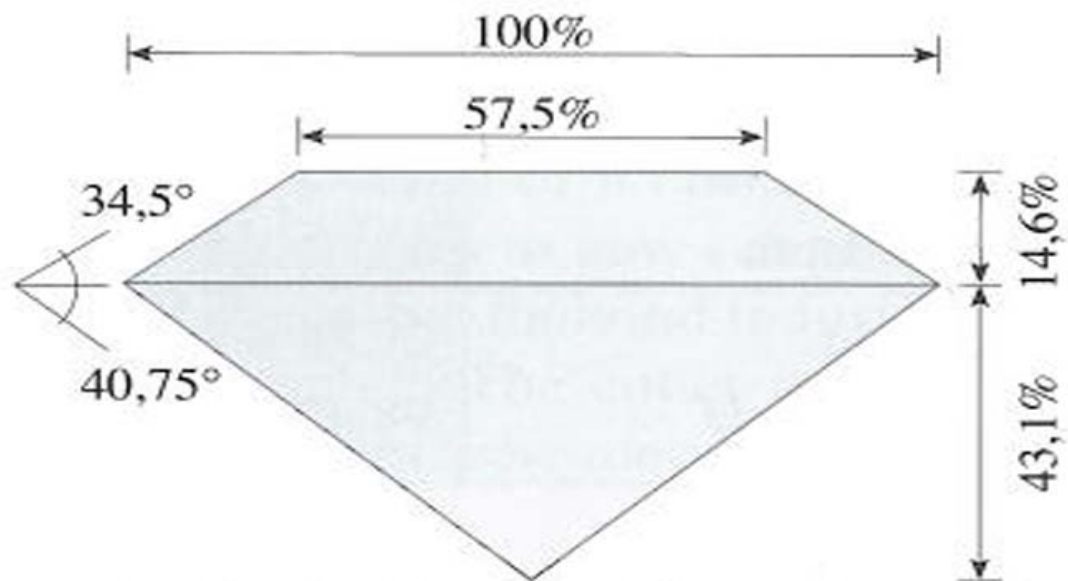
the four C's

- Carat
- Cut
- Colour
- Clarity

carat

- **measure for weight: 1 carat = 0.2 gram**
- **the availability of diamonds is very much depending on the size - the bigger the diamond, the harder to get**
- **the price of a diamond is a function of size, but rises exponentially!**

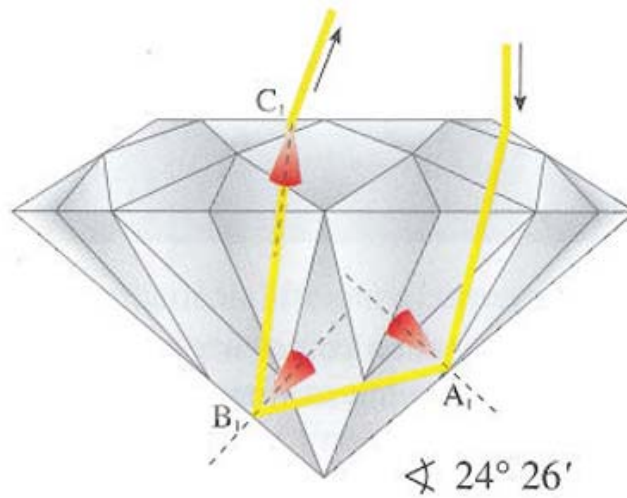
cut brilliant



Scandinavian Standard Brilliant – Proportions

the ideal angle of the cut

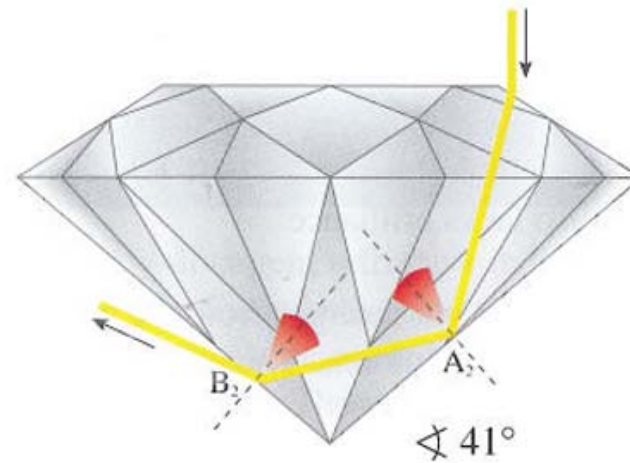
Diamond



Light refraction = 2,42

Total reflection = $24^{\circ} 26'$

Quartz



Light refraction = double refraction - $n_1 = 1,54$
 $n_2 = 1,55$

Total reflexion = 41°

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colours


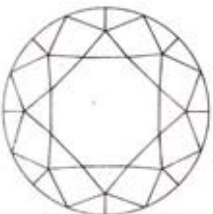




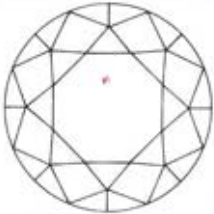


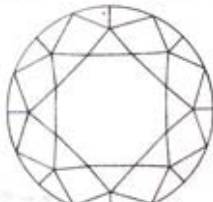



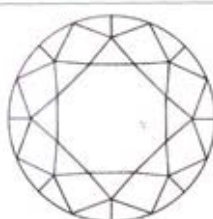
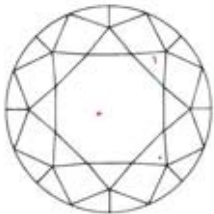

GIA Gemological Institute of America

	GIA Scale	Impression of colour	"Old World Terms"			GIA Scale	Impression of colour	"Old World Terms"			
colourless ↓	D	colourless	Finest	Jager	↓	P	Light Yellow	Cape	Light Yellow		
	E		White	River		Q					
	F*		Fine			R					
	G	almost colourless	White	Top Wesselton		S	Yellowish	Dark Cape			
	H		White	Wesselton		T					
	I		Commercial White	Top Crystal		U					
	J		Top Silver Cape	Crystal		V					
	K	Pale yellowish		Top		W					
	L		Silver Cape	Cape		X					
	M		Light	Cape		Y					
	N	Very light	Cape	Low Cape		Z	Fancy colours				
	O	yellowish	Cape	Very Light Yellow		Z+					
						Fancy yellow					

* colourless for brilliants of under 0,47 ct

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clarity

CLARITY			CLARITY		
VVS					VS
	<i>A pinpoint inclusion under the table</i>			<i>A small light cleavage under the table</i>	
					
	<i>A tiny cleavage at the girdle, penetrating into a crown main facet</i>			<i>Three small light crystals under the table</i>	
					
	<i>A pinpoint inclusion under a girdle facet</i>			<i>A light fissure in the table, two small crystals</i>	
					
	<i>Three tiny crystals under the table</i>			<i>Two small light crystals, cleavage in a table facet</i>	

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LINDBERG diamonds

- **C**arat: 0,01 – 0,02 – 0,03 Ct.
- **C**ut: brilliant
- **C**olour: top Wesselton/G
- **C**larity: VVS –very very small inclusions

we only use top quality diamonds....