TB SA

- Gravity 9.9 BLG
- ABV ----
- IBU **21**
- SRM 17.7
- Style Scottish Export 80/-

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- · Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 26.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.8 liter(s)
- Total mash volume 14.4 liter(s)

Steps

- Temp 70 C, Time 70 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 10.8 liter(s) of strike water to 78.3C
- Add grains
- Keep mash 70 min at 70C
- Keep mash 10 min at 78C
- Sparge using 19.7 liter(s) of 76C water or to achieve 26.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	2.8 kg <i>(77.8%)</i>	80 %	4
Grain	Simpsons - Crystal Medium	0.5 kg <i>(13.9%)</i>	74 %	108
Grain	Brown Malt (British Chocolate)	0.2 kg (5.6%)	70 %	128
Grain	Briess - Chocolate Malt	0.1 kg <i>(2.8%)</i>	60 %	690

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Kent Goldings	30 g	60 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M03 UK Dark Ale	Ale	Dry	10 g	Mangrove Jack's