

# CHRISTMASQUAD

- Gravity **22.2 BLG**
- ABV **10 %**
- IBU **42**
- SRM **27.8**
- Style **Belgian Dark Strong Ale**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **90 min**
- Evaporation rate **10 %/h**
- Boil size **26.4 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **28.4 liter(s)**

## Fermentables

| Type  | Name                                  | Amount         | Yield  | EBC |
|-------|---------------------------------------|----------------|--------|-----|
| Grain | Castle Malting - Pilsneński 6-rzędowy | 2.4 kg (28.2%) | 80 %   | 5   |
| Grain | Briess - Wheat Malt, White            | 1 kg (11.8%)   | 85 %   | 5   |
| Grain | Strzegom Monachijski typ II           | 2 kg (23.5%)   | 79 %   | 22  |
| Grain | Żytni                                 | 1 kg (11.8%)   | 85 %   | 8   |
| Grain | Aroma CastleMalting                   | 0.4 kg (4.7%)  | 78 %   | 100 |
| Grain | Simpsons - Crystal Rye                | 0.2 kg (2.4%)  | 73 %   | 177 |
| Grain | Special X Malt                        | 0.1 kg (1.2%)  | 65.2 % | 315 |
| Sugar | Molasses                              | 0.4 kg (4.7%)  | 78.3 % | 158 |
| Sugar | Candi Sugar, Dark                     | 0.5 kg (5.9%)  | 78.3 % | 542 |
| Sugar | Candi Sugar, Clear                    | 0.5 kg (5.9%)  | 78.3 % | 2   |

## Hops

| Use for | Name               | Amount | Time   | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil    | East Kent Goldings | 50 g   | 50 min | 5.8 %      |
| Boil    | Hallertau          | 10 g   | 50 min | 3.9 %      |
| Boil    | Bramling           | 50 g   | 35 min | 6 %        |

## Yeasts

| Name                     | Type  | Form  | Amount | Laboratory       |
|--------------------------|-------|-------|--------|------------------|
| FM41 Gwoździe i Banany   | Wheat | Slant | 500 ml | Fermentum Mobile |
| FM27 Artefakty trapistów | Ale   | Slant | 500 ml | Fermentum Mobile |