K10 PLASTERBOARD DRY LININGS/PARTITIONS/CEILINGS

GENERALLY / PREPARATION

326A PARGE COATS:

Apply a continuous coat of Gyproc Soundcoat Plus at least 6mm thick to the entire surface of the background ensuring all cracked or unfilled joints are covered. Allow to set before following on with Gyproc plasterboard installation.

331A THERMAL SEALS FOR GYPROC LININGS:

- Manufacturer and reference: British Gypsum, Gyproc DriWall Adhesive or Gyproc Sealant.
- Before/during installation of dry lining system, fully seal all air paths around the perimeter of the background and around structural openings and service penetrations through the background.
- Apply as a continuous fillet, leaving no gaps.

410 ACTIVair Technology:

- Decoration: After the joint treatment, decoration including any decorator's preparatory work should follow. Please note however that any decoration should be breathable to allow Formaldehyde and other pollutants to pass through the finish and be absorbed by the plasterboard. Painting: Breathable paints – please consult the appropriate paint manufacturer.

- Limitations: Finishes that restrict the board surface permeability e.g. non-breathable wall finishes, will limit the absorption of Formaldehyde and other pollutants for the area covered

FIXING/FINISHING

475A METAL FURRINGS FOR WALL LININGS (DriLyner MF):

- Install using components, accessories and methods recommended by the board manufacturer.
- Set out furrings vertically, at specified centres and adjacent to angles, openings, movement joints, etc. Maintain centres of furrings across openings. Bed in 200mm long dabs of adhesive at each end of furring and thereafter at 450mm centres. Bed horizontal lengths of furring to provide continuous support to top and bottom edges of boards.
- Accurately align all furrings to a true, vertical plane.
- Install additional furrings where necessary to accept junctions with partitions. Use a continuous line of adhesive to ensure there are no gaps across the cavity.
- 481A METAL FRAMING FOR GYPLYNER UNIVERSAL WALL LINING:
 - Securely fix Gypframe GL8 floor/ceiling track at 600mm centres.
 - Position Gypframe GL2/GL9 brackets at equal vertical centres and fix to background with Gypframe GL11 GypLyner Anchors for solid backgrounds or proprietary fixings for hollow backgrounds.
 - Position Gypframe GL1 lining channels at equal centres, maintaining sequence across openings, and locate in Gypframe GL8 track at floor and ceiling. Provide additional Gypframe GL1 lining channels as necessary to ensure support to all vertical edges of boards. Fix Gypframe GL1 lining channels to Gypframe GL2/GL9 brackets using Wafer Head Screws.
 - Provide additional Gypframe GL1/GL8 sections at wall abutments and corners as recommended by board manufacturer.
 - Install Gypframe GFT1 Fixing T for single layer board applications, inserted between face of framework and back of plasterboard lining, or Gypframe GFS1 Fixing Strap for double layer board applications, inserted between board layers, to receive fixings at end board joints. Ensure end board joints do not coincide with Gypframe GL1 lining channel joints.

491A METAL FRAMING FOR THREE SIDED GYPLYNER STEEL ENCASEMENT:

- Fix continuous lengths of Gypframe GA2 angle onto face of innermost steel flanges or background using fire resistant fixings at 600mm centres. Alternatively, use shot-fired fixings at same centres.
- Push fit Gypframe GL10 framing clips onto edges of outermost steel flanges at 800mm max centres.
- Push fit Gypframe GL1 lining channel onto each row of Gypframe GL10 framing clips.
- Install Gypframe GFT1 fixing T or short sections of Gypframe GL1 lining channel to support ends of boards in single layer linings, and Gypframe GFS1 fixing straps to support ends of boards in the face layer of multiple layer linings.
- Stagger joints between layers in multiple layer boarding.

491B METAL FRAMING FOR FOUR SIDED GYPLYNER STEEL ENCASEMENT:

- Push fit Gypframe GL10 framing clips onto edge of each steel flange at 800mm max centres.
- Push fit Gypframe GL1 lining channel onto each row of Gypframe GL10 framing clips.
- Install Gypframe GFT1 fixing T or short sections of Gypframe GL1 lining channel to support ends of boards in single layer linings, and Gypframe GFS1 fixing straps to support ends of boards in the face layer of multiple layer linings.
- Stagger joints between layers in multiple layer boarding.
- 516A ACOUSTIC SEALANT:
 - Manufacturer and reference: British Gypsum, Gyproc Sealant.
 - Location: At junctions with adjoining structure, and at other airpaths.
 - Apply as a continuous bead to clean, dry, dust-free surfaces, leaving no gaps.
 - After application of sealant, bulk fill gaps between floor and underside of plasterboard using Gyproc jointing compound.

521A AIR PRESSURE SEALANT (SHAFTWALL) TO _____

- Sealant: British Gypsum, Gyproc Sealant.
- Location:
 - To all framing members at perimeter junctions with walls, floors and ceilings, air gaps around openings, and other potential air leakage points.
 - To frame members prior to fitting core boards and around fire stops cloaking horizontal core board joints.
 - To all metal framing around board perimeters of first layer boarding and board perimeters when fixing outer layer board.
- Apply as a continuous bead leaving no gaps.

586A FIXING FIRECASE TO BEAM CASING ON STEEL ANGLES:

- Fix continuous lengths of Gypframe FEA1 steel angle to both sides of the top flange or background using fire resistant fixings at 600mm centres. Alternatively, use shot-fired fixings at the same centres. Ensure face of angle is flush with edge of flange.
- Fix fascia boards to Gypframe FEA1 angles using screws at 150mm centres. In single layer linings fit 60mm wide backing strips behind end joints, fixed through fascia boards using screws at 150mm centres.
- Fix fascia boards to soffit boards using screws at 150mm centres.
- Stagger joints in multi-layer linings and butt all boards lightly together. Set screw heads in a depression.

586C FIXING FIRECASE TO COLUMN CASING ON STEEL ANGLES:

- Fix continuous lengths of Gypframe FEA1 steel angle to both sides of the flange abutting the wall structure, or to the wall structure itself, using fire resistant fixings at 600mm centres. Alternatively, use shot-fired fixings at the same centres. Ensure face of angle is flush with edge of flange. Use additional Gypframe FEA1 angles where the column flange is set at right-angles to the wall structure.
- Fix return boards to Gypframe FEA1 angles using screws at 150mm centres, and face boards to return boards using screws at 150mm centres.
- Stagger joints in multi-layer linings and butt all boards lightly together. Set screw heads in a depression.

586E FIXING FIRECASE TO COLUMN CASING:

- Fix boards on adjacent faces to each other using screws at 150mm centres.
- Stagger joints in multi-layer linings and butt all boards lightly together. Set screw heads in a depression.

586F FIXING FIRECASE FOUR SIDED BEAM CASING ON STEEL ANGLES:

- Fix continuous lengths of Gypframe FEA1 steel angle to both sides of the top flange or background using fire resistant fixings at 600mm centres. Alternatively, use shot-fired fixings at the same centres. Ensure face of angle is flush with edge of flange.
- Fix fascia boards to Gypframe FEA1 angles using screws at 150mm centres. In single layer linings fit 60mm wide backing strips behind end joints, fixed through fascia boards using screws at 150mm centres.
- Fix fascia boards to soffit/ top boards using screws at 150mm centres.
- Stagger joints in multi-layer linings and butt all boards lightly together. Set screw heads in a depression.
- 591A FIXING PLASTERBOARD/ GYPSUM FIBRE BOARD/ GYPSUM BOARD WITH MAT REINFORCEMENT TO METAL SUPPORTS:

- Partitions/linings/casings:
 - Fix securely to all supports at maximum 300mm centres (reduced to 200mm at external angles where recommended by the board manufacturer).
 - Previous layer of plank plasterboard: Install with long edges at right angles to studs, and fix securely to each stud using two screws.
 - Other previous layers: Fix securely to supports around the perimeter of each board at maximum 300mm centres.
 - Rigidur H: It is recommended that Rigidur H boards are pre-drilled and countersunk at screw locations for improved ease of installation.
- Ceilings: Fix securely to all supports at maximum 230mm centres (reduced to 150mm at board ends and at lining perimeters where recommended by the board manufacturer).
- Fix working from the centre of each board. Position screws not less than 13mm from cut edges and 10mm from bound edges of boards. Set heads in a depression; do not break paper or gypsum core.

591B FIXING PLASTERBOARD TO METAL SUPPORTS (SHAFTWALL):

- Working from the centre of each board, fix securely to all supports at maximum 300mm centres, reduced to 200mm at external angles.
- Fix working from the centre of each board. Position screws not less than 13mm from cut edges and 10mm from bound edges of boards. Set heads in a depression; do not break paper or gypsum core.

592B FIXING RIGITONE BOARD TO METAL SUPPORTS:

- Ceilings: Prior to board installation prime all board edges with an application of Thistle GypPrime diluted four parts water to one part GypPrime and allow to dry for a 24 hours.
- Fix securely to all supports at maximum 230mm centres (reduced to 150mm at board ends).
- Fix around board perimeters before making fixings in the field of the board. Do not fix into Gypframe MF6 channels around ceiling perimeter. Position screws not less than 13mm from the edge of the board. Set heads in a depression; do not damage the board perforations or break paper or gypsum core.

626A FIXING DRILYNER BASIC:

- Apply dabs of Gyproc DriWall Adhesive to the background for one board at a time, to achieve at least 20% contact with the surface area of the boards:
- One row of horizontal dabs to coincide with the top edge of each board.
- One continuous line of horizontal dabs to coincide with the bottom edge of each board.
- One row of vertical dabs to coincide with the side edges of each board, and additional vertical row(s) at the following max centres:
 - 400mm for boards 9.5mm thick x 1200mm wide.
 - 600mm for boards 12.5mm thick x 1200mm wide.
 - 450mm for boards 9.5mm thick x 900mm wide.
 - 450mm for boards 12.5mm thick x 900mm wide.
- Ensure dabs are at least 25mm from board edges.
- For linings to receive ceramic finishes, apply one additional row of dabs at mid storey height.

626B FIXING DRILYNER TL:

- Apply dabs of Gyproc Dri-Wall Adhesive to the background for one board at a time, to achieve at least 20% contact with the surface area of the boards:
 - One row of horizontal dabs to coincide with the top edge of each board.
 - One continuous line of horizontal dabs to coincide with the bottom edge of each board.
 - One row of vertical dabs to coincide with the side edges of each board, and additional vertical row(s) at 600mm max centres.
- Ensure dabs are at least 25mm from board edges.
- Fix boards to the background using two Nailable Plugs per laminate, located at mid height 15mm from each of the side edges. Ensure plugs penetrate at least 25mm into the background excluding the thickness of any existing plaster finishes.
- Drive nail heads slightly below the paper surface; do not break paper or gypsum core.
- For linings to receive ceramic finishes, apply one additional row of dabs at mid-storey height and nine Nailable plugs through each board.

FIXING DRILYNER RF (WITH GYPROC THERMALINE BOARD LININGS): 631A

- Apply 25mm dia. blobs of Gyproc Sealant to the background in five vertical rows at 300mm centres in each row.
- Fix boards to the background using two Nailable Plugs per laminate located at mid-point in height, 15mm from each vertical edge.
- Ensure plugs penetrate at least 25mm into the background excluding the thickness of any existing plaster finishes.
- Drive nail heads slightly below the paper surface; do not break paper or gypsum core.
- For boards to receive ceramic finishes, use a total of nine Nailable Plugs.

671A TAPED SEAMLESS FINISH TO PLASTERBOARD:

- Manufacturer: British Gypsum.
 - Joint compound: One or more of the following Gyproc products:
 - Gyproc EasiFill 60
 - **Gyproc Joint Filler**
 - Gyproc QuickSand Joint Cement
 - Gyproc ProMix Lite Joint Cement
 - Gyproc Ready Mix Joint Cement
 - Joints/gaps:
 - Gyproc Joint Tape
 - Internal/ angled corners:
 - Gyproc Joint Tape •
 - External corners:
 - Gyproc AquaBead
 - Gyproc LevelLine
 - Gyproc Drywall Metal Angle Bead
 - Board ends:
 - Gyproc Drywall Plastic Edge Bead
 - Gyproc Drywall Metal Edge Bead

Primer/sealer:

- Two coats Gyproc Drywall Sealer where vapour control required (will provide vapour resistance only and does not meet performance requirements for moisture resistant grade boards as defined in BS EN520, type H1)
- Alternatively, one coat Gyproc Drywall Sealer for simple steam stripping of wall coverings (except for vinyl or other low permeability wall coverings) at a later date. One coat Gyproc Drywall Primer elsewhere.
- Lightly sand cut edges of boards to remove paper burrs.
- Fill all joints, gaps and internal angles with joint compound and cover with continuous lengths of tape, fully bedded. Reinforce external angles, stop ends, etc. with the specified bead/corner tape.
- When set, lightly sand, clean surface of dust, cover with joint compound, feathered out to give a flush, smooth, seamless surface.
- Spot nail/screw depressions with joint compound to give a flush surface.
- Fill minor indents. After joint, angle and spotting treatments have dried, lightly sand to remove any minor imperfections.
- Apply specified primer/sealer to give a continuous consistent texture to surface of boards.

- 671B TAPED SEAMLESS FINISH TO RIGIDUR H FIBRE REINFORCED GYPSUM BOARD:
 - Manufacturer: British Gypsum.
 - Joint compound: One or more of the following Gyproc products:
 - Gyproc EasiFill 60
 - Joints/gaps:
 - Gyproc Joint Tape
 - Internal/ angled corners:
 - Gyproc Joint Tape
 - External corners:
 - Gyproc AquaBead
 - Gyproc LevelLine
 - Gyproc Corner Tape
 - Gyproc Drywall Metal Angle Bead
 - Board ends:
 - Gyproc Drywall Plastic Edge Bead
 - Gyproc Drywall Metal Edge Bead

Primer/sealer:

- Two coats Gyproc Drywall Sealer where vapour control required (will provide vapour resistance only and does not meet performance requirements for moisture resistant grade boards as defined in BS EN520, type H1)
- Alternatively, one coat Gyproc Drywall Sealer for simple steam stripping of wall coverings (except for vinyl or other low permeability wall coverings) at a later date.
- Reinforce external angles, etc. with the specified bead/corner tape.
- Apply Gyproc EasiFill to the joint and bed in Gyproc Joint Tape or Gyproc Habito Corners. Allow to
 dry and lightly sand to remove any high spots. Gyproc Joint Tape or Gyproc Habito Corners should be
 used in internal angle joints. Trowel apply a second coat of Gyproc EasiFill and feather out to about
 200mm width on each side of the joint. Allow to dry and lightly sand.
- Spot nail/screw/staple depressions with two coats of joint compound to give a flush surface.
- Fill minor indents with a single coat of joint compound to give a flush surface.
- After joint, angle and spotting treatments have dried, lightly sand to remove any minor imperfections.

676A TAPED SEAMLESS FINISH TO GLASROC FIBRE REINFORCED GYPSUM BOARD:

- Manufacturer: British Gypsum.
 - Joint compound:
 - Gyproc Joint Filler
 - Gyproc QuickSand Joint Cement

Joints/gaps:

- Gyproc Joint Tape
- Internal/ angled corners:
 - Gyproc LevelLine
 - Gyproc Joint Tape
 - Thistle ProTape FT50

External corners:

- Gyproc LevelLine
- Gyproc Drywall Metal Angle Bead (bedded on to Gyproc Joint Filler)
- Apply Gyproc Joint Cement to the joint and bed in Gyproc Joint Tape. Allow to dry and lightly sand to remove any high spots. Gyproc Joint Tape or Gyproc Habito LevelLine should be used in internal angle joints. Trowel apply a second coat of Gyproc Joint Cement and feather out to about 200mm width on each side of the joint. Allow to dry and lightly sand.
- Spot nail/screw/staple depressions with two coats of joint compound to give a flush surface.
- Fill minor indents with a single coat of joint compound to give a flush surface.
- After joint, angle and spotting treatments have dried, lightly sand to remove any minor imperfections.
- 676B SEAMLESS FINISH TO RIGITONE:

Cut edges of boards: Lightly sand to remove paper burrs.

Joint filling: Cartridge gun apply Rigitone Vario 60 Jointing Material ensuring that the joint is filled to the full depth of the board. Leave to dry for minimum 50 minutes before striking off excess jointing material.

Protection of edges/ corners: Reinforce external angles, stop ends, etc. with specified edge/ angle bead.

Finishing: 24 hours after joint filling is completed finish board joints with an application of Gyproc EasiFill ensuring that board perforations remain clear. Lightly sand when dry to leave a smooth seamless surface.

Screw depressions: Fill with Gyproc EasiFill to give a flush surface.

Minor imperfections: Lightly sand jointing and spotting to remove any minor imperfections.

681A SKIM COAT PLASTER FINISH: (Hand applied only):

- Manufacturer and reference: British Gypsum, Thistle MultiFinish. Thickness: 2mm.
- Pre-Treatment: Thistle Bond-it (Glasroc H TileBacker & Gyproc Moisture resistant grade plasterboards), Thistle GypPrime (required for Rigidur H boards to control suction).
- Reinforcement:
 - Joints/gaps/internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT50 or FT100 may be used. External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead.
 - Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
 - Fill and tape all joints except where coincident with metal beads.
- Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
- Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.

681B SKIM COAT PLASTER FINISH: (Hand applied only):

- Manufacturer and reference: British Gypsum, ThistlePro PureFinish. Thickness: 2mm.
- Pre-Treatment: Thistle Bond-it (Glasroc H TileBacker & Gyproc Moisture resistant grade plasterboards), Thistle GypPrime (required for Rigidur H boards to control suction).
- Reinforcement:

Joints/gaps/internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT50 or FT100 may be used. External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead.

- Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
- Fill and tape all joints except where coincident with metal beads.
- Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
- ACTIVair Technology:
 - Decoration: After the plaster skim has dried, decoration including any decorator's preparatory work should follow. Please note however that any decoration should be breathable to allow Formaldehyde and other pollutants to pass through the finish and be absorbed by the plaster. <u>Painting:</u> Breathable paints please consult the appropriate paint manufacturer. <u>Wallpaper:</u> Use only breathable wallpapers– please consult the appropriate wallpaper manufacturer.
 - **Limitations:** Finishes that restrict the board surface permeability e.g. Tiling, Marble and other wall coverings, will limit the absorption of Formaldehyde and other pollutants for the area covered
- Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.
- 681C SKIM COAT PLASTER FINISH: (Hand applied only):
 - Manufacturer and reference: British Gypsum, Thistle BoardFinish. Thickness: 2mm.
 - Pre-Treatment: Thistle Bond-it (Glasroc H TileBacker & Gyproc Moisture resistant grade plasterboards), Thistle GypPrime (required for Rigidur H boards to control suction).
 - Reinforcement:
 - Joints/gaps/internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT50 or FT100 may be used. External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead. Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
 - Fill and tape all joints except where coincident with metal beads.
 - Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
 - Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.

- 681D SKIM COAT PLASTER FINISH (Hand applied only):
 - Manufacturer and reference: **British Gypsum, ThistlePro DuraFinish** (For improved impact & abrasion resistance). Thickness: 2mm.
 - Pre-Treatment: Thistle GypPrime (required for Rigidur H boards to control suction).
 - Reinforcement:
 - Joints/gaps/internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT50 or FT100 may be used.
 - External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead. Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
 - Fill and tape all joints except where coincident with metal beads.
 - Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
 - Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.
- 681E SKIM COAT PLASTER FINISH (Machine or hand applied):
 - Manufacturer and reference: British Gypsum, Thistle SprayFinish. Thickness: 2mm.
 - Pre-Treatment: Thistle Bond-it (Glasroc H TileBacker & Gyproc Moisture resistant grade plasterboards), Thistle GypPrime (required for Rigidur H boards to control suction).
 - Machine spray application: Worm pump plastering machine e.g. M-Tec M100SC or PFT Ritmo.
 - Reinforcement: Joints/gaps: Gyproc Joint Tape or Thistle ProTape FT50/ FT100 Internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT100 may be used. External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead. Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
 - Fill and tape all joints except where coincident with metal beads.
 - Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
 - Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.
- 681F SKIM COAT PLASTER FINISH: (Hand applied only):
 - Manufacturer and reference: British Gypsum, ThistlePro Magnetic. Thickness: 3mm Minimum.
 - Pre-Treatment: Thistle Bond-it (Glasroc H TileBacker & Gyproc Moisture resistant grade plasterboards), Thistle GypPrime (required for Rigidur H boards to control suction).
 - Reinforcement:
 - Joints/gaps/internal corners: Any gaps exceeding 3mm should be pre-filled, joints reinforced using Gyproc Joint Tape or alternatively Thistle ProTape FT50 or FT100 may be used. External corners: Thistle Thin Coat Angle Bead or Thin Coat Mini Mesh Bead. Edges: Thistle Thin Coat Plaster Stop Bead to all door and window surrounds.
 - Fill and tape all joints except where coincident with metal beads.
 - Trowel/float to a tight, matt, smooth surface with no hollows, abrupt changes of level or trowel marks.
 - Lighting design considerations:
 - General lighting can have a critical effect on the appearance of the final finished surface. Refer to Annex A – 'Design considerations for work and acceptance of smooth plaster finishes under aspects of lighting' – BS EN 13914-2-2016.

K40 SUSPENDED CEILINGS

- ACTIVair Technology (Ceilings): 250
 - Decoration: Please note that any decoration should be breathable to allow Formaldehyde and other _ pollutants to pass through finish and be absorbed by the plasterboard tile. <u>Painting:</u> Breathable paints – please consult the appropriate paint manufacturer. Limitations: Finishes that restrict the board surface permeability, will limit the absorption of
 - _ Formaldehyde and other pollutants for the area covered.

PLASTERED/RENDERED/ROUGHCAST COATINGS M20

777 FINISH:

> Prior to applying skim coat, liaise with the design team/contractor on site to determine quality of smooth finish, flatness, and the design considerations for work and acceptance of smooth plaster finishes under aspects of lighting.